



**GOVERNMENT OF ASSAM
FOREST DEPARTMENT
OFFICE OF THE CHIEF EXECUTIVE OFFICER :: STATE CAMPA :: ASSAM
LANKESHWAR :: JALUKBARI :: GUWAHATI - 781014**

Letter No. FG.27/CAMPA/APO Proposals/2022-23

E-mail statecampaassam@gmail.com
Dated: Guwahati, the 13th April, 2022

To,

The Chief Executive Officer
National Authority
Ministry of Environment, Forest and Climate Change
Hall No.- 1, 4th Floor, Block No.- 3, CGO Complex
Lodhi Road, New Delhi – 110003.

Sub: **Submission of Annual Plan of Operation of Assam CAMPA for the year 2022-23.**

Sir,

With reference to the subject cited above, I am sending herewith the minutes of the State Level Steering Committee (SLSC) meeting held on 12.04.2022 which includes the Annual Plan of Operation for 2022-23 of Assam CAMPA amounting to **Rs.14427.14 lakhs** as approved by SLSC.

The hard copy of **Form – XII** as prescribed in the Compensatory Afforestation Fund Rules, 2018 has been sent by courier.

It is therefore, requested to kindly place the APO for 2022-23 before the Executive Committee of National Authority for approval.

Enclo: As above.

Yours faithfully

(Suman Mohapatra, IFS)

Addl. Principal Chief Conservator of Forests &
Chief Executive Officer (CAMPA)
Lankeshwar, Jalukbari, Guwahati-14

Copy for kind information to:

- i. The Addl. Chief Secretary to the Govt. of Assam, Environment & Forest Department, Dispur, Guwahati-6.
- ii. The Principal Chief Conservator of Forests & Head of Forest Force, Assam, Aranya Bhawan, Panjabari, Guwahati-37.

Addl. Principal Chief Conservator of Forests &
Chief Executive Officer (CAMPA)
Lankeshwar, Jalukbari, Guwahati-14

o/c

Minutes of the meeting of State Level Steering Committee of Assam State CAMPA held on 12.04.2022 at 11.00 A.M. in the Conference Hall of the O/o the Chief Secretary, Assam, Janata Bhawan, Block- C, 3rd Floor, Dispur.

List of the Members present in the meeting is annexed.

The Chief Secretary –cum- Chairman welcomed the members of State Level Steering Committee of State CAMPA and requested the Chief Executive Officer, State CAMPA to start the meeting as per agenda items. The CEO, State CAMPA briefed about the background of State CAMPA before the Committee.

The CEO, State CAMPA gave a power point presentation on the agenda items of the meeting before the Committee. The presentation also included the activities undertaken under State CAMPA since inception and the present fund position of State CAMPA. Showing the Physical & Financial position of State CAMPA, he also elaborately described that CAMPA fund can be utilized in plantations, nurseries, infrastructure developments, publicity & Awareness, capacity development, research and monitoring etc. as per provisions prescribed in CAF Rules, 2018.

Agenda wise decision taken by the State Level Steering Committee (SLSC) is given below-

1. Confirmation of the minutes of the last State Level Steering Committee meeting held on 04.06.2021.

The CEO, State CAMPA, Assam stated that the minutes of the last State Level Steering Committee meeting held on 4th June, 2021 was circulated vide this office letter No. FG.27/CAMPA/SLSC/2020-21, Dated 15.06.2021 to all the Members of the Committee. As no comments on the minutes have been received from any Member, the minutes have been placed before the Committee for approval.

The Committee approved the minutes.

2. Action Taken Report of the last State Level Steering Committee meeting.

The Action Taken Report of the last State Level Steering Committee meeting held on 04.06.2021 has been placed before the Committee for acceptance and the Committee accepted the same.

3. Audit Report for the year 2019-20.

The CEO, State CAMPA mentioned that the audit report for the year 2019-20 was received from the Chartered Accountant and has been placed before the Committee. The same had also been placed before the State Level Executive Committee (SLEC) held on 24.03.2022 and after scrutiny of the report and the observations, the Committee had given an In-principle approval.

The Committee accepted the same.



4. **Approval of Annual Plan of Operation (APO) for the year 2022-23.**

The APO for the year 2022-23 has been prepared with an estimated cost of **Rs. 13370.91 lakhs** focusing upon the mandatory activities, i.e., Plantations and permanent nurseries. Apart from plantations & nurseries, construction of new buildings related to frontline staff, soil moisture conservation, habitat management, publicity & awareness, capacity development, research and some new initiatives to be taken up etc. have also been incorporated in the APO. The APO has been prepared based on the revised estimates as per DSR (Bldg) 2021 for construction of buildings and on SOP for plantation works prepared as per instruction of the Finance Department, Govt. of Assam. The APO had been placed before the State Level Executive Committee meeting held on 24.03.2022 and the Committee had approved the APO.

The CEO, State CAMPA stated that the APO for the year 2021-22 amounting to **Rs. 9767.62 lakhs** had been submitted to the National Authority, MoEF& CC, Govt. of India after obtaining approval from the State Level Steering Committee incorporating the items as suggested by the Chairman. The National Authority approved the APO for an amount of **Rs. 8968.00 lakhs** deferring some of the items seeking justifications on these. Accordingly, the justifications were submitted and National Authority, MoEF& CC, Govt. of India approved an amount of **Rs. 532.50 lakhs** against the balance deferred items. In other words an amount of **Rs. 9500.5 lakhs** in total has been approved by the National Authority against the proposed APO for the year 2021-22 amounting to **Rs. 9767.62 lakhs**.

However, initial budget provision was for Rs. 7911.77 lakhs only and accordingly Financial Sanction was received on 25.11.2021. Later on, approval of APO 2021-22 from the National Authority for an amount of Rs. 8968.00 lakhs was received on 26.08.2021. But, Financial Sanction could not be obtained for the balance amount before 31.03.2022 i.e. for Rs. 10.5 crore as a result of which the said amount of the original approved APO amount could not be considered in budget of 2021-22. Hence, the amount of **Rs. 10.5 crore** may be included in the APO of 2022-23 for necessary approval in respect of the following items:

Implementation of Catchment Area Treatment plan for treatment of degraded watershed area under Sonitpur West Division using LiDAR Technology: Rs. 10.5 crore out of the approved 14.08 crore. He also stated that this additional amount of Rs. 10.5 crore could not be included in the APO of 2022-23 for the SLEC meeting since the meeting was held on 24.03.2022 i.e. before 31.03.2022.

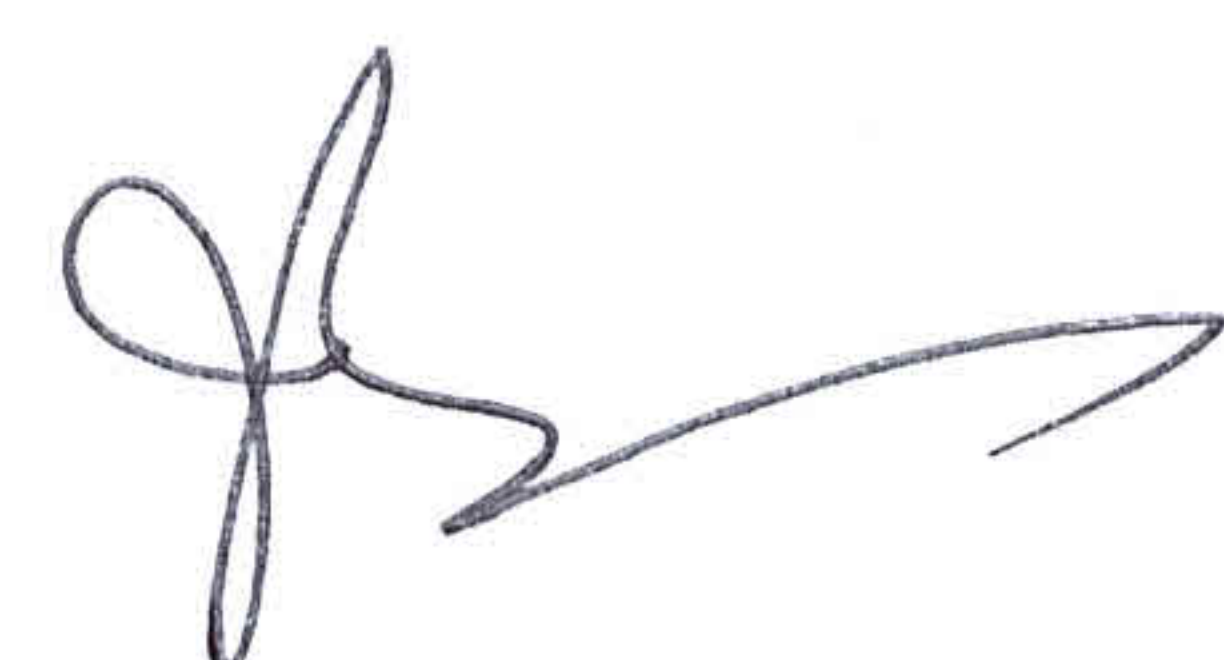
Regarding Miyawaki plantation, the Commissioner & Secretary to the Govt. of Assam, Revenue & DM Department opined to carry out the plantation in some bigger plot i.e. in at least about 100 Ha. instead of 4 Ha. But, the PCCF & HoFF, Assam stated that as the Miyawaki plantation is proposed for the first time so it will be tested on pilot basis on 4 ha. He further stated that this type of plantation is preferably carried out near urban area and therefore availability of land is a major factor for consideration.

The Committee approved the APO for the year 2022-23 which has already been approved by the State Level Executive Committee held on 24.03.2022 with all the items incorporated and suggested to include the amount of **Rs. 10.5 crore** in the APO of 2022-23.



ANNUAL PLAN OF OPERATION FOR THE YEAR 2022-23

Sl. No	Activities	Physical (in ha/ Nos)	Financial (Rs.In lakhs)	Under CAF Rules
Compensatory Afforestation (CA Fund)				
A	Site Specific Plantation			CA Plantation
	Fencing, Adv. work, and nursery	528.27	952.00	
	Creation & 1st year maintenance of earlier SSP and additional fund for fencing and Adv. work due to revised norms (Committed)	467.452	434.41	
	2nd year maintenance of earlier created SSP(Committed)	8.92	1.80	
	3rd year maintenance of earlier created SSP (Committed)	531.05	70.31	
	4th year maintenance of earlier created SSP (Committed)	436.74	46.69	
	5th year maintenance of earlier created SSP (Committed)	252.42	5.14	
	Total of Fencing & Adv. Work & Site Nursery	528.27	952.00	
	Total of SSP Maintenance (Committed)	1696.582	558.35	
	Total Compensatory Afforestation Fund (CA Fund)			
Work under NPV (80% of NPV Category)				
B	Artificial Regeneration (AR)			Rule 5 (2) (b)
	Fencing, Adv. work, and nursery	1753	3254.78	
	Creation & 1st Year maintenance and additional fund for fencing and Adv. work due to revised norms (Committed)	1323	805.39	
	2nd year maintenance of earlier created AR (Committed)	965	241.99	
	3rd year maintenance of earlier created AR (Committed)	1000	222.72	
	4th year maintenance of earlier created AR (Committed)	588	98.82	
	5th year maintenance of earlier created AR (Committed)	502	75.06	
	Total of Fencing & Adv. Work & Site Nursery	1753	3254.78	
	Total of Maintenance(Committed)	4378	1443.98	
	Sub Total of Artificial Regeneration			
C	Aided Natural Regeneration (ANR)			Rule 5 (2) (a)
	Fencing, Adv. work, and nursery (Holong conservation)	330	546.12	



	2nd year maintenance of earlier created ANR (Committed)	580	139.39	
	3rd year maintenance of earlier created ANR (Committed)	500	103.36	
	Total of Fencing & Adv. Work & Site Nursery	330	546.12	
	Total of Maintenance (Committed)	1080	242.75	
	Sub Total of ANR		788.87	
D	Sal Coppice Management			Rule 5(2) (a) & (c)
	Fencing, Adv. work, and nursery	25	39.46	
	2nd year maintenance of earlier created Sal Coppice (Committed)	235	21.79	
	3rd year maintenance of earlier created Sal Coppice (Committed)	100	7.87	
	4th year maintenance of earlier created Sal Coppice (Committed)	117	8.42	
	Total of Fencing & Adv. Work & Site Nursery	25	39.46	
	Total of Maintenance (Committed)	452	38.08	
	Sub Total of Sal Coppice		77.54	
E	ApurugiyaBriksha Plantation			Rule 5(2) (b)
	2nd year maintenance (Committed)	10 (2 unit)	1.28	
	4th year maintenance (Committed)	25 (5 unit)	3.20	
	5th year maintenance (Committed)	35 (7 unit)	4.48	
	Sub Total of ApurugiyaBriksha Plantation	70 (14 unit)	8.96	
F	Catchment Area Treatment Plan (Balance of DPR amount)	6122 ha.	3401.00	5 (2) (b)
G	Arboretum-cum-Bio resource Conservation Centre (5 ha.)	1 no.	50.00	Rule 5(2) (m)
H	High density planting as per Miyawaki Model in two plots under KamrupEast Division. (Fencing, adv. work and nursery)	4 ha.	20.61	5 (2) (b)
I	Soil Moisture conservation	4 nos.	76.00	Rule 5(2) (g)
J	2nd year maintenance of Bio Diversity Park	24 nos.	40.83	Rule 5(2) (b) and (m)
Total of work under 80% of NPV			9162.57	82.05%
Work under NPV (20% of NPV Category)				
K	Nursery Maintenance			
	1.5 ha Nursery (Committed)	27	211.95	
	3.0 ha Nursery (Committed)	5	82.95	
	Sub Total of Nurseries	32	294.9	
L	Infrastructure Development			Rule 5(3) (e)

	Construction of Range Office	2 nos.	99.64	
	Construction of Range Officer Qtr.	2 nos.	137.04	
	Construction of Forester Qtr.	4 nos.	149.12	
	Construction of Fgd. Qtr.	3 nos.	105.48	
	Construction of Assam Type Barrack	3 nos.	135.18	
	Anti Poaching Camp	1 no.	36.86	
	Development of Rhino land Wildlife Education Centre at Burapahar under Eastern Assam Wildlife Division.	1 no.	74.34	
	Solar reflector at DeeporBeel area	LS	25.00	
	Committed infrastructure activities due to revision of SOR	35 nos.	834.00	
	Sub Total of Infrastructure		1596.66	
M	Staff amenities for frontline field personnel	5 Divisions	21.00	Rule 5(3) (e)
N	Publicity & awareness	9 Divisions	52.43	Rule 5(3) (i)
O	Monitoring and Evaluation cost	LS	40.00	Rule 5(3) (h)
Total of work under 20% of NPV			2004.99	17.95%
Interest Accrued				
	Sitting Fee and Allowances of nominated members of State CAMPA	LS	0.70	Rule 6(a)(v)
	Staff Salary of CEO office	LS	50.00	Rule 6(a) (iv)
P	Sub-Total		50.70	60.00%
	Administrative expenditure	LS	33.80	Rule 6(b) (i) & (ii)
	Sub-Total		33.80	40.00%
Total Interest			84.50	
Others				
Q	<p>Activities which were already approved in the APO of 2021-22 in the 2nd phase but due to non availability of State budget provision in that year again included in the APO of 2022-23. Name of activities are-</p> <ol style="list-style-type: none"> 1. Survey demarcation and Geo-referencing of Forest Boundary 2. Biodiversity conservation (Peoples biodiversity Register 26 nos.) 3. Anti Poaching camp (5 nos.) 4. Floating Anti Poaching camp (2 nos.) 5. Const. of cages for rescue and transportation of Wild animals (13 nos.) 6. Procurement of Smart phones (Remaining 50 nos.) 	-	532.5	

During the year 2021-22 APO approved for Rs.8968.00 lakh in the 1 st phase but financial sanction have been received from State Rs.7911.77 lakh. Due to non availability of State budget provision for the remaining amount of Rs.1056.23 lakh in that year again included in the APO of 2022-23.		1056.23	
Creation of grass enclosure for grassland management at Manas Tiger Reserve	20 ha.	25.00	
Capacity development of frontline staffs, JFMC members, organization of workshop & specialised trainings, exposure visits etc. in REWP Wing		38.00	
Audit fees for the year 2021-22		13.00	
	<i>Sub-Total of others</i>	1664.73	
Grand Total		14427.14	

5. Any other matter with permission of the Chair.

1. Annual Report for the year 2020-21.

The Annual Report of State CAMPA, Assam for the year 2020-21 was accepted by the Committee which would be tabled during the next State Assembly Session.

2. The Principal Secretary to the Govt. of Assam, Transformation and Development Department had put forth some points for discussion in the meeting. However, the Chairman suggested to form a sub committee consisting of the following members to discuss on the points raised by the Principal Secretary:

- | | |
|---|--------------------|
| i. Dr. Amit Sahai, IFS, PCCF & HoFF, Assam | - Chairman |
| ii. Dr. M. ArizAhmmed, IAS, Principal Secretary, T & D Deptt. | - Member |
| iii. Dr. Satyendra Singh, IFS, Addl. PCCF, HQ | - Member |
| iv. Dr. C. Muthu Kumaravel, CCF & Nodal Officer, F.C. Act. | - Member |
| v. Sri Aditya Vikram Yadav, IAS, Staff Officer to Chief Secretary | - Member |
| vi. Sri Suman Mohapatra, IFS, Addl. PCCF & CEO, State CAMPA | - Member Secretary |

The presentation included various photographs of achievements under State CAMPA, Assam. The Committee appreciated the same and suggested to upload the photographs in the website of Assam Forest Department.

The meeting ended with vote of thanks to the Chair.

-Sd-
(Shri Jishnu Barua, IAS)
 Chief Secretary, Govt. of Assam
 &
 Chairman
 State Level Steering Committee
 State CAMPA, Assam

Copy to:

1. The P.S. to the Chief Secretary to the Govt. of Assam, Dispur
2. The Addl. Chief Secretary to the Govt. of Assam, Environment & Forest Department, Dispur.
3. The Addl. Chief Secretary to the Govt. of Assam, T & D Department, Dispur.
4. The Addl. Chief Secretary & Agriculture Production Commissioner to the Govt. of Assam, Agriculture Department, Dispur.
5. The Inspector General of Forests (Central), Govt. of India, MoEF & CC Integrated Regional Office, Rukmini Gaon, Guwahati-22.
6. The Principal Chief Conservator of Forests & Head of Forests Force, Assam, Aranya Bhawan, Panjabari.
7. The Principal Chief Conservator of Forests (Wildlife) & Chief Wildlife Warden, Assam, Aranya Bhawan, Panjabari.
8. The Spl. Principal Chief Conservator of Forest (Social Forestry) cum Nodal Officer, State Forest Development Agency, Assam.
9. The Principal Secretary to the Govt. of Assam, Finance Department, Dispur.
10. The Principal Secretary to the Govt. of Assam, P & RD Department, Dispur.
11. The Principal Secretary to the Govt. of Assam, WPT & BC Department, Dispur.
12. The Commissioner & Secretary to the Govt. of Assam, Revenue & DM Department, Dispur.
13. The Chief Conservator of Forests and Nodal Officer (F.C. Act), O/o the PCCF & HoFF, Assam, Aranya Bhawan, Panjabari.
14. The Secretary to the Govt. of Assam, Science & Technology Department, Dispur.
15. Shri Ramen Singh Rabha, S/o Aloram Rabha, Vill: Lampara, P.S.Boko, Dist: Kamrup
16. The Senior Finance & Accounts Officer, O/o the PCCF & HoFF, Assam, Aranya Bhawan, Panjabari, Guwahati-37

(Suman Mohapatra, IFS)

Addl. Principal Chief Conservator of Forests
& Chief Executive Officer (CAMPA)

&

Member Secretary

State Level Steering Committee

Lankeshwar, Jalukbari, Guwahati-14



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Dated: Guwahati, the 13th April, 2022

To,

✓ The Chief Executive Officer
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It is therefore, requested to kindly place the APO for 2022-23 before the Executive Committee of National Authority for approval.

Encl: As above.

Yours faithfully

(Suman Mohapatra, IFS)

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Chief Executive Officer (CAMPA)
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Addl. Principal Chief Conservator of Forests &
Chief Executive Officer (CAMPA)
Lankeshwar, Jalukbari, Guwahati-14

**ANNUAL PLAN OF OPERATION
OF
2022-23**

FOR VARIOUS WORKS UNDER

**ASSAM COMPENSATORY AFFORESTATION FUND MANAGEMENT
AND PLANNING AUTHORITY
(ASSAM CAMPA)**



**FOREST DEPARTMENT
GOVERNMENT OF ASSAM**

PART-I
BRIEF HISTORY AND PAST PERFORMANCE

(a) Brief description of forests and forestry sector in Assam

The state of Assam is located in the north-eastern region of India, has an area of 78,438 Sq. Km., 2.39% of the total geographical area of the country, and has sub-tropical climate. The state can be divided into three physiographic regions, viz. Brahmaputra valley, Central Assam Hills and Barak valley.

- ***Brahmaputra River Valley*** is the northern part of Assam (Covering the north eastern end, central Assam and the western end). The floodplains of the Brahmaputra river covers nearly 72% of the State, bestowing the land with immensely fertile land. Spreading its rich alluvial plains across the length and breadth of Assam, the river makes the State ideal for agriculture as well as forest growth.
- South of the approximate centre of the State lie the ***Dima Hasao and KarbiAnglong*** districts which are separated from the upper valley by a range of hills. The two districts have autonomous councils and are administratively structured to be relatively more independent of the State and central machinery. Earlier known as the North Cachar Hills, they separate the Brahmaputra river valley of the State from the Barak Valley.
- Named after the Barak River, the ***Barak Valley*** comprises the three southern most districts of Assam. The geography of the valley lends itself to annual flooding, making it both fertile as well presenting a significant risk to life.

Assam is one of the biodiversity-rich areas in the world consisting of tropical rainforests, deciduous forests, riverine grasslands, bamboo orchards and numerous wetland eco systems. Forest Survey of India has mapped forest types/sub types in the country with reference to Champion and Seth classification using satellite data. As per this assessment, Assam has 18 forest sub-types belonging to five forest type groups:

- ***Tropical Wet Evergreen.***
- ***Tropical Semi Evergreen.***
- ***Tropical Moist Deciduous.***
- ***Tropical Dry Deciduous.***
- ***Sub-Tropical Pine Forests.***

The state has recorded forest area of 28,327 sq. km, which is 36.11% of its geographical area. Within the forest area, the reserved forest and unclassed forests are 66.58% and 33.42% respectively. As per the State of Forest Report (FSI, 2021), the total forest cover in the state is 28,312 sq. km. (36.11% of Geographical area), comprising 3017 sq. km very dense forest, 9991 sq. km moderately dense forest and 15,304 sq. km open forest.

(b) Compensatory afforestation, other forestry and related schemes (physical and financial) including catchment area treatment, wildlife management and community development works and activities carried out therein in the State in last five years from the State Fund, in tabular form.

The funds under State CAMPA, Assam received from the Government of India were utilized as per the guidelines of CAMPA. But, after notification of Compensatory Afforestation Fund Act, 2016 and Compensatory Afforestation Fund Rules, 2018, the Annual Plan of Operation's are prepared as per the rules. In the last five years (2017-18 to 2021-22), State CAMPA, Assam has undertaken various activities which are mentioned in the following table:

Sl. No.	Item of works	Physical (In Ha./Nos.)	Financial (In Lakhs)
1	Site Specific Plantation (CA)	1286.03 Ha.	1888.91
2	1.5 Ha. Nursery	7 Nos.	1747.62
3	3.00 Ha. Nursery	2 Nos.	1652.35
4	Aided Natural Regeneration	1380 Ha.	1076.57
5	Afforestation	2995 Ha	4052.46
6	Sal Coppice Management	835 Ha.	971.90
7	Apurugiya Brikhya Plantation	45 Ha. (9 units)	383.72
8	Infrastructure Development	Buildings for Frontline Staffs, Watch Towers, Forest Roads etc.	1416.90
9	Monitoring & Overhead	---	44.93
10	Capacity Development	---	71.65
11	Publicity & Awareness	---	147.76
12	Amenities to staff etc.	---	87.26
13	Man Animal Conflict Management other than ex-gratia & ICT	---	34.35
14	Soil Moisture Conservation	---	85.37
15	Establishment of Bio-diversity Parks	---	383.14
16	Development of Medicinal Plants	---	25.47
17	In-situ conservation of indigenous Orchids and ex-situ Conservation of indigenous araceae family in Assam	---	12.70
18	Habitat Management in protected areas	---	300.52

Statement showing the Financial & Physical Progress report under SOPD, CSS & EAP schemes during 2017-18

Name of the SOPD Scheme	Total Allocation	Sanction Amount	FOC Amount Released	Physical Target during 2017-18	Physical Achievement during 2017-18	Rs. In lakhs
2	3	4		6	7	
SOPD Schemes						
Social Forestry (Genl)	200.00000	200.00000	200.00000	1st year creation & maintenance of nursery-3 Ha, Procurement of Agar/Chandan seedling-507020 nos, single planting -46 nos, Adv work block plantation- 40 Ha	1st year creation & maintenance of nursery-3 Ha, Procurement of Agar/Chandan seedling-507020 nos, single planting -46 nos, Adv work block plantation- 40 Ha	
Bio-Diversity Board	50.00000	50.00000	34.43000	Salary and office expense, board meeting, etc	Salary and office expense	
Tribal Sub Plan	150.00000	150.00000	150.00000	Adv work Block Plantation-20 H, Procurement of Agar seedlings-224948 nos, 1st year creation of single planting- 444 nos, Maintenance of nurseries-15 Ha, Maintenance of Single Planting -852 nos, Maintenance of Block Plantation-5 Ha	Adv work Block Plantation-20 H, Procurement of Agar seedlings-224948 nos, 1st year creation of single planting- 444 nos, Maintenance of nurseries-15 Ha, Maintenance of Single Planting -852 nos, Maintenance of Block Plantation-5 Ha	
Schedule Caste Component Plan	200.00000	200.00000	200.00000	Procurement of Agar/Chandan seedling-28000 nos, maintenance of Park-4 nos, Maintenance of nursery-43.5 ha, maintenance of single planting -681 nos, 1st year creation & maintenance of block plantation- 20 Ha	Procurement of Agar/Chandan seedling-28000 nos, maintenance of Park-4 nos, Maintenance of nursery-43.5 ha, maintenance of single planting -681 nos, 1st year creation & maintenance of block plantation- 20 Ha	
Procurement Arms & Ammunition for Forest Protection	1000.00000	1000.00000	1000.00000	Purchased of INSAS rifle 250nos, Assault rifle-320 nos, Pump action gun-130 nos, Pistol - 25 nos and ammunitions-4, 55,440 rounds	Purchased of INSAS rifle 250nos, Assault rifle-320 nos, Pump action gun-130 nos, Pistol - 25 nos and ammunitions-4, 55,440 rounds	
Rehabilitation of Degraded Forest	135.00000	135.00000	135.00000	Adv. Work, creation and 1st year maintenance of R.D.F. Plantation-374.85 ha	Adv. Work, creation and 1st year maintenance of R.D.F. Plantation-374.85 ha	
Forest Publicity	70.00000	70.00000	0.00000	Publicity related works, awareness campaign, Van Mahotsav Programme, Wildlife week, etc	Nil	
Amenities to staff & labours	100.00000	100.00000	100.00000	Construction of sanitary latrine-16 nos, drinking water facility-9 nos, repairing office & staff quarter-21 nos, installation of deep tubewell-2 nos, renovation & electrification of officer's/staff quarter-5 nos, purchase of furniture, xerox machine-7 nos, inverter-4 nos, computer set-24 nos, AC-4 nos etc.	Construction of sanitary latrine-16 nos, drinking water facility-9 nos, repairing office & staff quarter-21 nos, installation of deep tubewell-2 nos, renovation & electrification of officer's/staff quarter-5 nos, purchase of furniture, xerox machine-7 nos, inverter-4 nos, computer set-24 nos, AC-4 nos etc.	

Rehabilitation of Laika & Dadhia Village under Dibru-Saikhowa NP (WL)	1000.00000	0.00000	0.00000	0.00000	Development activity against the scheme	NIL
National Park Wildlife Sanctuary	200.00000	200.00000	200.00000	200.00000	Maintenance of anti poaching camp, tubewell and ring well, fixing of boundary pillar, new country boat, signboard, patrolling & prevention of WL crime, payment of wages of Home Guard, maint of road, culvert, solar power fans, vehicle, boat, watch tower, etc	Maintained of anti poaching camp, tubewell and ring well, fixing of boundary pillar, new country boat, signboard, patrolling & prevention of WL crime, payment of wages of Home Guard, maint of road, culvert, solar power fans, vehicle, boat, watch tower, etc
Forest Protection Force	105.72000	71.86804	40.29813	40.29813	1st AFFP- Construction of Assam type Barrack- 1nos, Repairing of magazine room- 1nos, repairing office room- 1 nos, repairing hospital- 1 nos, repairing of barrack- 3nos 2nd AFFP- Construction of quarter with attached kitchen, construction of two seater latrine, construction of double leaf heavy iron gate etc. 3rd AFFP- Payment of outstanding bill for construction of three storied barrack at Singia	3rd AFFP- Payment of outstanding bill for construction of three storied barrack at Singi, Nagaon District
Assam Forest School (Training of Staff)	100.00000	100.00000	100.00000	100.00000	Training of front line staff, purchase of uniform, furniture, organization of tour, sports, exams, convocation etc	Training of front line staff, purchase of uniform, furniture, organization of tour, sports, exams, convocation etc
Building	100.00000	100.00000	0.00000	0.00000	Construction of Forester quarter- 5nos, Forest Guard quarter- 2nos, Assam type building- 1nos. Parking shed - 1 nos	NIL
Dir. Forest Building	39.28000	19.40598	19.40598	19.40598	payment of outstanding bills	payment of outstanding bills
Inter-pretation centre cum Measum at Manas & Dehing -Patkai (Signature Project)	1000.00000	0.00000	0.00000	0.00000	Construction of Inter-pretation centre cum Measum at Manas & Dehing -Patkai	NIL
Communication for General Area Road & Bridge	200.00000	200.00000	200.00000	200.00000	Improvement of forest road-92.25 Km, construction of culvert- 8 nos	Improvement of forest road-92.25 Km, construction of culvert- 8 nos
Improvement of Forest Cover through restoration & Afforestation in degraded Forest	500.00000	500.00000	500.00000	500.00000	Block Plantation - 260.99 Ha	Block Plantation - 260.99 Ha
Greening of Greater Guwahati City	100.00000	0.00000	0.00000	0.00000	Single Planting-12841 nos, bamboo fencing-1055 nos, flower pot-300 nos, tube raise plant-100 nos	NIL
Raising People's Nurseries/Plantation of Medicinal of Aromatic Plant.	200.00000	200.00000	200.00000	200.00000	400 nos of nurseries @ of Rs.50,000 per nursery	400 nos of nurseries @ of Rs.50,000 per nursery

Modernization of Assam State Zoo	200.00000	131.61874	131.61874	Renovation of internal roads of Assam State Zoo	Renovation of internal roads of Assam State Zoo
Construction of 40 Nos New highlands in Kaziranga National Park	500.00000	500.00000	500.00000	Construction of 40 Nos New highlands in Kaziranga National Park	Construction of 40 Nos New highlands in Kaziranga National Park
Total of SOPD	6150.00000	3927.89276	3710.75285		
Externally Aided Project					
EAP-Capacity Building for Forest Management & Training of Personnel (JICA)	195.00000	0.00000	0.00000		Nil
EAP-Assam Project on Forest & Biodiversity Conservation (APFBC) (90:10)	21811.19000	5200.00000	5200.00000	Maintenance of plantation Sal Coppice Regeneration-770 Ha, Spl Block Plantation-700 Ha, General Plantation (MHW, NTFP, ANR)-5120 Ha Fire Wood-8473 Ha, New office building-2 nos, New staff quarter-1 no, Building repairing-104 nos, New AP camp-1 no, Watch Tower-1 no, Repairing of Heritage Buildings-1 no, Repairing of existing road-83 RM, Construction new road-635 RM, Purchases of speed boat-15 nos	Maintenance of plantation Sal Coppice Regeneration-770 Ha, Spl Block Plantation-700 Ha, General Plantation (MHW, NTFP, ANR)-5120 Ha Fire Wood-8473 Ha, New office building-2 nos, New staff quarter-1 no, Building repairing-104 nos, New AP camp-1 no, Watch Tower-1 no, Repairing of Heritage Buildings-1 no, Repairing of existing road-83 RM, Construction new road-635 RM, Purchases of speed boat-15 nos
Total of EAP	22006.19000	5200.00000	5200.00000		
C.S. Schemes					
National Afforestation Programme (90:10)	552.78000	0.00000	0.00000	Advance work for plantation- 1777 Ha, Maint work-1004 Ha	Nil
Integrated Development of Wildlife Habitat (90:10)	409.42000	317.00700	317.00700	Construction of earthen bundh for retaining water in dry season, construction of tongi, anti-poaching camp, staff quarter, wooden bridge, culvert, check dam, watch tower, patrolling path, Maintenance of mechanized boat, home guards civil construction, patrolling and trekking path, community oriented activities, publicity & public awareness, Purchase of POL, hiring of vehicle, payment of wages to incremental labour etc. and payment for celebration of World Wetland Day	Construction of earthen bundh for retaining water in dry season, construction of tongi, anti-poaching camp, staff quarter, wooden bridge, culvert, check dam, watch tower, patrolling path, Maintenance of mechanized boat, home guards civil construction, patrolling and trekking path, vehicle etc. eco-development and community oriented activities, publicity & public awareness, Purchase of POL, hiring of vehicle, payment of wages to incremental labour etc.

<p>Intensification of Forests Management (90:10) (Forest Fire Prevention & Management)</p>	<p>330.00000</p>	<p>0.00000</p>	<p>0.00000</p>	<p>Procurement of fire fighting equipment's, control burning, fireline creation & maintenance, construction of water storage tank- 9 nos, control room- 9 nos, awareness campaign etc.</p>	<p>Nil</p>
<p>Project Tiger (90:10)</p>	<p>3525.290000</p>	<p>484.27000</p>	<p>484.27000</p>	<p>Procurement of arms & ammunition, vehicle, field gear, night vision, Establishment of patrolling camp,staff quarter, construction of field staff quarter - 3 nos,, patrolling camp, construction of DFO quarter- 1 no, Ranger quarter- 1 no, garage- 2nos, toilet- 15 nos, earthen ponds- 5 nos, crop protection structure- 5 nos,Project allowance, ration allowance, Installation of hand pump-15 nos, , Maintenance of office,kitchen, toilets,wireless network, vehicles, elephant and their accessories, office equipments, chain link fencing, fire line and fire breaks .Grassland and wetland improvement etc.</p>	<p>Procurement of arms & ammunition, vehicle, field gear, night vision, Establishment of patrolling camp,staff quarter, construction of field staff quarter - 3 nos, patrolling camp, construction of DFO quarter- 1 no, construction of ACF- 1 no,, Ranger quarter- 1 no, garage- 2nos, toilet- 15 nos, culvert- 4 nos, Creation of earthen ponds- 5 nos, crop protection structure- 5 nos,Project allowance, ration allowance, Installation of hand pump-15 nos, , Maintenance of office,kitchen, toilets,wireless network, vehicles, elephant and their accessories, office equipments, chain link fencing, fire line and fire breaks .Grassland and wetland improvement etc.</p>
<p>Kaziranga</p>	<p>1238.897</p>	<p>1238.897</p>	<p>1238.897</p>	<p>Procurement of arms & ammunition, field gear, night vision, Construction of staff quarter-1 No., culvert-2 Nos, gate-2 Nos., Construction of damaged camp-5 Nos, weed eradaction-92 hact, creation of road network-6 km, reation of wireless tower-2 Nos, Creation of bridge-113 mtr., procurement of Trap Camera-330 Nos, look through compass-75 Nos, GPS Etrex-65 Nos., Ration allowance to 993 (staff), payment of wages to Casual workers-20 Nos, Construction of Wooden bridge-13, rep. of highland-10, deployment of camp labour-191 Nos, purchase of POL, census of wildlife, maint. of electronic-eye etc.</p>	<p>Procurement of arms & ammunition, field gear, night vision, Construction of staff quarter-1 No., culvert-2 Nos, gate-2 Nos., Construction of damaged camp-5 Nos, Installation of tube well-80 Nos, weed eradaction-92 hact, creation of road network-6 km, reation of wireless tower-2 Nos, Creation of bridge-113 mtr., procurement of Trap Camera-330 Nos, look through compass-75 Nos, GPS Etrex-65 Nos., Ration allowance to 993 (staff), payment of wages to Casual workers-20 Nos, Construction of Wooden bridge-13, rep. of highland-10, deployment of camp labour-191 Nos, purchase of POL, census of wildlife, maint. of electronic-eye etc.</p>

Nameri	162.13700	162.13700	162.13700	162.13700	Procurement of arms & ammunition, vehicle, field gear, night vision, binoculars, generator-2nos, Installation of running water system 2 nos, Establishment of patrolling camp/staff quarter 1 no., construction of field staff quarter, patrolling camp-1 no, culvert-6 nos, Ranger quarter-1 no., ring well-3 nos., Creation of road network-20 nos, Provision for ration allowance- 14.81 lakhs, Wages of CL/ Hgd- 75 nos, Maintenance of patrolling camp-15 nos, vehicles, arms & ammunition, quarters, elephant and their accessories, office equipments etc.	Procurement of arms & ammunition, vehicle, field gear, night vision, binoculars, generator-2nos, Installation of running water system 2 nos, Establishment of patrolling camp/staff quarter 1 no., construction of field staff quarter, patrolling camp-1 no, culvert-6 nos, Ranger quarter-1 no., ring well-3 nos., Creation of road network-20 nos, Provision for ration allowance- 14.81 lakhs, Wages of CL/ Hgd- 75 nos, Maintenance of patrolling camp-15 nos, vehicles, arms & ammunition, quarters, elephant and their accessories, office equipments etc.
Orang	290.63000	290.63000	290.63000	290.63000	Procurement of vehicles, field gear, Construction of forester quarter-1 no., Range Office- 1 no, toilet- 3 nos, gate- 1no., patrolling camp - 1no, Tank- 5 nos, Project allowance to staff, Provision for ration, creation of road network & wireless tower, procurement of vehicle, creation of kuccha road- 20 nos, Maintenance of existing camp- 40 nos, arms & ammunition, elephant squads, road network, wireless tower, vehicle, maint. of Forest quarter toilet, tranquilizing equipment, Eco-development- human health & cattle immunization camp etc.	Procurement of vehicles, field gear, Construction of forester quarter-1 no., Range Office- 1 no, toilet- 3 nos, gate- 1no., patrolling camp - 1no, Tank- 5 nos, Project allowance to staff, Provision for ration, creation of road network & wireless tower, procurement of vehicle, creation of kuccha road- 20 nos, Maintenance of existing camp- 40 nos, arms & ammunition, elephant squads, road network, wireless tower, vehicle, maint. of Forest quarter toilet, tranquilizing equipment, Eco-development- human health & cattle immunization camp etc.
Project Elephant (90:10)	841.99800	200.00000	305.290800	305.290800	Payment of ex-gratia Rs. 100.00 lakhs, Formation of anti-depredation squad, Running charge of vehicle, Population estimation of Wild Elephant, Veterinary support, reward to informer, publicity & awareness, purchase of drugs for tranquilizing gun.	Payment of ex-gratia Rs. 100.00 lakhs, Formation of anti-depredation squad, Running charge of vehicle, Population estimation of Wild Elephant, Veterinary support, reward to informer, publicity & awareness, purchase of drugs for tranquilizing gun.
Management Action Plan Biosphere Reserve Manas & Dibru-Saikhowa	150.00000	36.55800	71.338000	71.338000	1. Manas Biosphere: Construction of AP camp- 1no., Repairing of road- 10km, Habitat Management, Eco-Development, Research, Monitoring & Training etc 2. Dibru-Saikhowa Biosphere: Construction of floating AP camp- 1no, Protection, Eco Development, Infrastructure and Communication etc.	1. Manas Biosphere: Construction of AP camp- 1no., Repairing of road- 10km, Habitat Management, Eco-Development, Research, Monitoring & Training etc 2. Dibru-Saikhowa Biosphere: Construction of floating AP camp- 1no, Protection, Eco Development, Infrastructure and Communication etc.
Total of CSS	5809.48800	2869.56980	2869.56980	2869.56980		
Total (A+B+C)	33965.67800	11997.46256	11780.32265	11780.32265		



Statement showing the Financial & Physical Progress report under SOPD, CSS & EAP schemes during 2018-19

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks (₹ in lakh)
1	2	3	4		6	7	
A	SOPD Schemes						
1	Social Forestry (Genl)	300.00	300.00	0.00	1st year creation- 40 ha, nursery 2nd yr maintenance- 3 ha, park maintenance - 1 no. 2nd yr maintenance of single planting 46. Advance work block plantation - 35 ha, nursery 1st yr creation & maintenance, single planting creation- 4890 nos.	Nil	
2	Bio-Diversity Board	64.00	64.00	64.00	Board function expenses, Salary to Officers & Staff, Office Expenses, Project & Technical Work, Publication & Promotion Purchase of Printer (2 nos), audit Fee (Statutory)	Nil	Board function expenses, Salary to Officers & Staff, Office Expenses, Project & Technical Work, Publication & Promotion Purchase of Printer (2 nos), audit Fee (Statutory)
3	Tribal Sub Plan	120.00	0.00	0.00	Pt-A- 2nd year maint. of block plantation-5 ha., 1st year creation & maint. of block plantation-20 ha., 3rd year maint. of nursery 13.5 ha., Maint. of park 2 nos., 3rd year maint. of single planting 201 nos., 2 year maint. of single planting 444 nos. Pt-B- 1st year creation of single planting 2600 nos.	Nil	
4	Schedule Caste Component Plan	250.00	0.00	0.00	2nd year maint. of block plantation-20 ha., 5th year maint. of Nursery 7 ha., 3rd year maint. of Nursery 42 ha., Maint. of park 11 nos., 3rd year maint. of single planting 542 nos.	Nil	
5	Procurement Arms & Ammunition for Forest	0.10	0.00	0.00	Nil	Nil	
6	Rehabilitation of Degraded Forest	1000.00	0.00	0.00	1) 2nd year maint. of RDF - 279.01 ha, 2) 2nd year maint. of IFCRADF - 216.76 ha. 3) Advance work creation for IFCRADF - 261.25 ha. 4) 2nd year maint. of Block Plantation - 53 ha. 5) Advance work creation of Block Plantation- 320 ha 6) 1st year creation Single Planting 2954 nos	Nil	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1		3	4		6	7	
7	Forest Publicity	100.00	20.00	20.00	i) Celebration of World Environment Day on 5th June, ii) Celebration of Vana Mohatsava Day on 1st week of July, iii) Celebration of Wildlife Week during 1st week of October, iv) Celebration of World Wetland Day on 2nd Feb-state level function. v) LED TV with stand and accessories vi) Laptop vii) Purchase of one still camera with accessories including speed light viii) Purchase of overhead projector with accessories and video camera. ix) Printing of publicity material and annual report etc.	i) Celebration of World Wetland Day on 2nd February. ii) State Level Functions viz. Vanamahatsava & Wildlife Week etc. iii) Circle / Division Level functions viz. Vanamahatsava & Wildlife Week etc.	
8	Amenities to staff & labours	52.60	52.60	42.7234	PCCF(T) UAZ, Ghy. Purchase of furniture, Purchase of Xerox machine, Purchase of Inverter, Installation of Deep Tube Well, Construction of latrine, Drinking water facility, Computer Set etc. etc. PCCF(T) LAZ, Ghy. Purchase of Xerox machine, Installation of Solar system, Const. of overhead tank, Installation of Inverter, Purchase of computer etc. etc. Addl. PCCF (SF), Assam Purchase of office furniture, Colour printer with scanner, Purchase of sofa set, water purifier, Const. of overhead tank, Installation of Inverter, Purchase of computer etc. etc.	Nil	
9	Rehabilitation of Laika & Dadhia Village under Dibru-Saikhowa NP (WL)	0.10	0.00	0.00	Nil	Nil	
10	Development of Other Wildlife Areas	30.00	30.00	27.00	Anti-poaching activities for protection of stray rhinos, tigers and other wild animals outside National Parks and Sanctuaries. Publicity, awareness, celebration of wildlife week, elephant festival, attending meeting etc., construction of trapping cage for capturing problematic animals 5 nos.	Anti-poaching activities for protection of stray rhinos, tigers and other wild animals outside National Parks and Sanctuaries. Publicity, awareness, celebration of wildlife week, elephant festival, attending meeting etc., construction of trapping cage for capturing problematic animals.	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1		3	4		6	7	
11	National Park Wildlife Sanctuary	200.00	200.00	185.5635	Habitat Management by removing weeds, uprooting of shrubs, removal of water hyacinth etc. Maint. of Anti poaching camp, tube well & ring well, Maint. of country boat, road, patrolling path, wireless sets, forest camp, vehicle, vaccination of cattle in fringe villages, engagement of incremental staff for protection and anti-poaching activities, cost of POL and maini. & repairing of vehicle meant for rescue of wild animals, fixing of RCC boundary pillar, wages of casual workers, home guards. Fixing of RCC boundary pillar, const. of new country boat, display signboard, Patrolling & prevention of WL crime including payment of wages of Home Guard etc., Habitat management by removing weeds, uprooting of unwanted shrubs, removal of water hyacinth etc./ Maintenance of watch tower. Erection of signboard, Repairing of Cutvers. Intelligence Network, engaged for wildlife areas, office expenses, eco-development activities, public awareness, etc.	Habitat Management by removing weeds, uprooting of shrubs, removal of water hyacinth etc. Maintenance of vehicle, country boats, mechanized boats, speed boats and POL, Solar power fence. Procurement of POL, wages of casual worker office expenses, printing & publication of interpretation materials. Construction of Roads, watch tower, bathroom & toilet, ring well tube well, Vaccination of cattle in fringe villages. Repairing Anti-Poaching camp, Tube well Ring well, departmental rifle & DBBL gun, Intelligence gathering. Purchase of ammunition, Running cost of vehicle & anti poaching activities of the Sanctuary. Construction of Trapping craze, Tourist road, Running water facility & earth filling in the staff qtr. Basistha etc. FOC yet to be released	
12	Forest Protection Force	60.00	60.00	54.10632	Ist AFPF: Construction of Assam Type Barrack, Repairing & Renovation at Ist AFPF, Basistha. 2nd AFPF: Construction of Brick Boundary wall with heavy duty double leaf iron gate at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Lenght 120 RM) Construction of Brick Boundary wall with drain at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Lenght 120 RM) Construction of RCC Watch tower at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Rs. 4,06,692/- X 2 nos. =8,13,384/-) Repairing of Magazine guard room at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon	Ist AFPF: Construction of Assam Type Barrack, Repairing & Renovation at Ist AFPF, Basistha. 2nd AFPF: Construction of Brick Boundary wall with heavy duty double leaf iron gate at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Lenght 120 RM) Construction of Brick Boundary wall with drain at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Lenght 120 RM) Construction of RCC Watch tower at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon (Rs. 4,06,692/- X 2 nos. =8,13,384/-) Repairing of Magazine guard room at 2nd AFPF, Headquarter, Seconee, Jakhatabandha, Nagaon N.B. (Lowest tender value)	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1		3	4		6	7	
13	Assam Forest School (Training of Staff)	200.00	200.00	108.488	Dir., Assam Forest School - Training of Frontline Staff i.e. cost of uniform to trainee, Filed visit i.e. Tour, sports & games, org. exam, org. convocation, honorarium to guest lecturer, conveyances allowances to guest lecturer, office expenditure, Maint. and repair works i.e. water supply, electrical system, maint. of sanitary works, maint. of office campus, maint. of generator, etc. Construction Boundary wall with gate, approach road, Gymnasium hall. Supdt., Assam Forest Guards School - Field visit, exposure tour of trainee, local tour, sports & games, org. exam, org. convocation, office expenditure, honorarium of guest lecture etc., Maint. of development works, Procurement of uniform etc. etc.	Dir., Assam Forest School, Jalukbari - Field visit, Sports & Game, Organizing Examination, Convocation, Office expending Examination, supply, Electricity, Sanitary works, Office compound/ Garden, Cleaning of Drain/Nallah, Maint. of Director residence compound, Hostel compound, Play ground, Repairing of Officers & Staff quarters, Lanscaping inside the AFS, Maint. of vehicle, Purchase of Furniture, Signboard etc. Supdt., Assam Forest Guards School - Field visit, exposure tour of trainee, local tour, sports & games, org. exam, org. convocation, office expenditure, honorarium of guest lecture etc., Maint. of development works, Procurement of uniform etc. etc.	
14	Development of Forest Village	30.00	30.00	29.168	Nagaon- Construction of 4 nos. Ring well, Block Pavers Path Road & Chain Link fencing wall & Installation of Solar street light 4 nos. Dibrugarh- Drinking water facilities (installation of HTW), Maint. of Forest Road & Solar lighting system. Lakhimpur- Cost of Deep Tube Well, RCC Slagging, Approach Road & RCC Box Culvert.	Nagaon- Construction of 4 nos. Ring well, Block Pavers Path Road & Chain Link fencing wall & Installation of Solar street light 4 nos. Dibrugarh- Drinking water facilities (installation of HTW), Maint. of Forest Road & Solar lighting system. Lakhimpur- Cost of Deep Tube Well, RCC Slagging, Approach Road & RCC Box Culvert.	
15	Dir. Forest Building	23.00	3.19	3.19	Payment of Architech pending Bill	Payment of Architech pending Bill	
16	Inter-pretation centre cum Measum at Manas & Dehing Patkai (Signature)	395.87	395.87	395.87	Construction of Museum cum Interpretation Center at Manas and Digboi	Payment to the contractor phase-I works in the Interpretation Center at Digboi	
17	Communication for General Area Road & Bridge	60.00	0.00	0.00	Improvement of forest Road -29.5 km. Culvert - I no.	NIL	

Sl No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1					6	7	
18	Forest Research	30.00	30.00	12.58141	Preservation, Experimental and Sample Plots studies for biodiversity conservation, Orchid Research conservation, Herbal Garden Ex-situ conservation/exhibition/demonstration & propagation of rare, endangered and useful medicinal plants, Study of observation plots of different tree species, Tissue culture, Creation of seed orchard, Botanical Garden, Creation/conservation of botanical garden etc.	Preservation, Experimental and Sample Plots studies for Orchid Research under Silvi. Maintenance of Seeds Stands, Botanical Garden, Hi-Tech Nursery, Creation of 0.5ha. Seeds Orchards under Genetic Cell Divn. etc.	
19	Greening of Greater Guwahati City	30.00	30.00	0.00	1st year creation of 1500 nos. of Single planting with GPF fencing	NIL	
20	Raising People's Nurseries/Plantation of Medicinal of Aromatic Plant.	50.00	50.00	46.50	Financial assistance to 100 beneficiaries for 1st year Creation of Nurseries	Financial assistance to 93 beneficiaries for 1st year Creation of Nurseries	
21	Modernization of Assam State Zoo	500.00	500.00	132.51233	(a) Renovation of 3.0 mtr. Wide road, (b) Construction of new drain, (c) Renovation of drain depth 750 mm (d) Renovation of drain above 750 mm depth (e) Construction 810.22 mtr. RCC Boundary wall	Part work completed against the renovation of existing works	
22	Construction of 40 Nos New highlands in Kaziranga National Park	0.00	0.00	0.00	NIL	NIL	
23	Working Plan Organization & Development of Infrastructure Technology	0.10	0.00	0.00	NIL	NIL	
24	Assam Bamboo Experience Centre	500.00	0.00	0.00	NIL	NIL	
25	Assam Climate Change Management Society	200.00	0.00	0.00	NIL	NIL	
26	Special Rhino Protection Force	196.43	0.00	0.00	NIL	NIL	
	Total of SOPD	4392.20000	1965.66000	1121.70296			
B	Externally Aided Project						
27	EAP-Capacity Building for Forest Management & Training of Personal (JICA)	72.16	72.16	72.16	State Share component for purpose of taxes etc.	State Share component for purpose of taxes etc.	
28	EAP-Assam Project on Forest & Biodiversity Conservation (APFBC) (90:10)	5236.73	10.00	48.140	Salary component of constructional staffs	Salary component of constructional staffs	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks	
1	2	3	4		6	7		
	Total of EAP	5308.89000	82.16000	120.30000				
C	C.S. Schemes							
29	National Aforestation Programme (90:10)	110.00	0.00	0.00	Advance work for ANR -180 AR-486 ha, Bamboo-40 ha. Mixed plantation-40 ha.	NIL		
30	Integrated Development of Wildlife Habitat (90:10)	330.00	265.32	117.79	Dibru Saikhowa WLS- Construction of mobile anti-poaching camp cum boat camp. Erection of electric post, Maintenance of wooden mechanized board, Road, Camp, Residence, Arms, Wireless system, Publicity etc. BBP WLS - Extension of Electricity supply, Construction of iv grade qtr., Maintenance of Casual laver & vehicle etc. Chakrasila WLS - Water retention structure for providing water to wild animal, Purchase of Uniform, Rason, Construction of RCC signboard, POL for vehicle, Wages for daily labour, Karbi- Anglong WLS - Construction of watch tower, patrolling path, Check dam for providing water to animals etc., Nambor WLS - Construction of watch tower, Check dam for providing water to animals, Distribution of piglet to fringe villagers under eco dev. activity, Gorompani WLS - Construction of watch tower, Check dam for providing water to animals, Purchase of POL, Tiger cage, Barail WLS - Construction of watch tower, Road purchase of sweeping machine etc.,		Dibru Saikhowa WLS- Construction of mobile anti-poaching camp cum boat camp. Erection of electric post, Maintenance of wooden mechanized board, Road, Camp, Residence, Arms, Wireless system, Publicity etc. BBP WLS - Extension of Electricity supply, Construction of iv grade qtr., Maintenance of Casual laver & vehicle etc. Chakrasila WLS - Water retention structure for providing water to wild animal, Purchase of Uniform, Rason, Construction of RCC signboard, POL for vehicle, Wages for daily labour, Karbi- Anglong WLS - Construction of watch tower, patrolling path, Check dam for providing water to animals etc., Nambor WLS - Construction of watch tower, Check dam for providing water to animals, Distribution of piglet to fringe villagers under eco dev. activity, Gorompani WLS - Construction of watch tower, Check dam for providing water to animals, Purchase of POL, Tiger cage, Barail WLS - Construction of watch tower, Road purchase of sweeping machine etc.,	
31	Forest Fire Prevention & Management	220.00	93.23	0.00	Procurement of Fire fighting equipments- 9 nos., Controlled burning fire line creation & maintenance - 150 km, Construction of water storage tank with pump for fire fighting purpose- 9 nos., Awareness campaign- 18 nos., Pre-fire season workshops for coordination among line departments & elected bodies & NGO's- 9 nos., Training & capacity building on fire fighting methods for Frontline staff. NGO's & village communities- 9 nos., Incentivizing villages-communities for protection against forest fire.		Revalidation proposal submitted	
28	Project Tiger (90:10)					NIL		

During the year 2021-22 APO approved for Rs.8968.00 lakh in the 1 st phase but financial sanction have been received from State Rs.7911.77 lakh. Due to non availability of State budget provision for the remaining amount of Rs.1056.23 lakh in that year again included in the APO of 2022-23.		1056.23	
Creation of grass enclosure for grassland management at Manas Tiger Reserve	20 ha.	25.00	
Capacity development of frontline staffs, JFMC members, organization of workshop & specialised trainings, exposure visits etc. in REWP Wing		38.00	
Audit fees for the year 2021-22		13.00	
<i>Sub-Total of others</i>		1664.73	
Grand Total			

(b) Measurable output of all physical activities to be undertaken along with the period required for achieving the measurable output.

Physical Activity	Details	Measurable output	Period required for achieving the measurable output
Compensatory Afforestation & Afforestation	Advance work	Fencing of area selected, and preparation of land and site nursery	One year
	Creation of plantation	Establishment of plantation	5 years
	2 nd year maintenance	Establishment of plantation	4 years
	3 rd year maintenance	Establishment of plantation	3 years
	4 th year maintenance	Establishment of plantation	2 years
	5 th year maintenance	Establishment of plantation	1 years
ANR	Advance work	Fencing of area selected, and preparation of land and site nursery	One year
	Plantation of seedlings and maintenance	Increase in density of forests	3 years
	2 nd year maintenance	Increase in density of forests	2 years
	3 rd year maintenance	Increase in density of forests	1 years
Habitat Management	Maintenance of grasslands in PA	Removal of wood lands and improvement of grasslands	1 year

Nursery	Maintenance of nursery	Nos of seedling production	1 year
Infrastructure	Construction of buildings/bridges/Animal Rescue Centers	Numbers of infrastructure constructed	1 year
Soil Moisture Conservation	Construction of Check dams	Improvement in moisture content and increase in green cover	3 years
Procurement of Goods	Purchase through tender	Number of goods procured	1years
Publicity and Awareness	Publication of Publicity materials/Development of Documentary films/Awareness programmes	Number of such activities completed	1 year
Others			Within 1 year

(c) Details of the concurrent monitoring and evaluation report including third party monitoring undertaken in past with photographs.

The monitoring and evaluation of CAMPA activities for the years 2010-11 to 2018-19 had been carried out by the Green Initiative Certification and Inspection Agency Pvt. Ltd. (GICIA India Pvt. Ltd). These reports had already been submitted to the Ad-hoc CAMPA/National CAMPA, MoEF& CC, Govt. of India along with the previous years Annual Plans of Operation (APO). The Monitoring & Evaluation for the years **2019-20** and **2020-21** will be conducted soon as tendering process for hiring of third party agency is being initiated.

The overall performance score of the CAMPA activity in the State is computed to be **8.09** by the Monitoring Agency. This reflects the overall performance of the State under CAMPA as SATISFACTORY, which meets basic requirements and adherence to the objective, potential for improvement to achieve excellence and higher concentration on individual parameters and regular monitoring, reporting and verification could elevate score to highly satisfactory level.

Declaration

The above Annual Plan of Operation has been adopted by the Assam State Authority.



(Suman Mohapatra, IFS)

Chief Executive Officer

and

Member Secretary

SLEC & SLSC

Assam CAMPA

19	Payment of casual workers	---	30.00
20	Procurement of Mobile Phones Procurement of Solar Lights	190 Nos. 31 Nos.	53.48
21	Development of CAMPA Tracker software		16.34
22	Purchase of GPS Sets	22	4.26
23	Wood Balance Study		6.50
24	Establishment of Animal Rescue Centre and veterinary facility for rescued wild animals.		1.00
TOTAL			14495.16

(c) Forestry and other related schemes (physical and financial) and activities carried out therein in the state in previous years from the fund received under other schemes of the Government.

Details attached in tabular form as ANNEXURE – I.

(d) Year-wise total forest area diverted in the various forest divisions of Assam since 1980

Year	Diverted area (in Ha)	Diverted area break-up (in Ha.)	Stipulated Compansatory Afforestation (in Ha.)		
			Forest land in ha.	Non-forest land in ha.	Total
1981-82	170.2	170.20		170.20	170.20
1982-83	0.00	0.00	0.00	0.00	0.00
1983-84	2.63	2.630	5.260		5.260
1984-85	299.69	62.120	118.32	2.96	121.28
		41.51	44.24	19.39	63.63
		196.06	400.00		400.00
1985-86	25.180	19.480		19.480	19.480
		5.70		5.70	5.70
1986-87	116.507	16.487	34.00		34.00
		100.02		100.02	100.02
1987-88	9.788	9.788		9.788	9.788
1988-89	0		0	0	0.000
1989-90	86.702	11.505		11.123	11.123
		9.350		9.350	9.350
		8.00	16.00		16.00
		56.947		56.947	56.95
		0.9	1.80		1.80
1990-91	0		0.00	0	0.00

1991-92	96.515	32.020		32.02	32.02
		30.255	63.00		63.00
		6.620		6.62	6.62
		1.120	2.30		2.30
		26.500		26.500	26.500
1992-93	132.678	132.678		132.678	132.68
1993-94	203.348	0.980		0.980	0.980
		7.500		7.500	7.500
		4.422	8.844		8.844
		4.966		5.000	5.000
		55.030	45.60	32.430	78.03
		130.450	260.900		260.900
1994-95	297.680	98.020		98.020	98.020
		25.650	51.300		51.300
		28.000	56.000		56.000
		35.010	70.020		70.020
		77.500	155.000		155.000
		20.000		20.000	20.000
		13.500	27.000		27.000
1995-96	5.00	5.000		5.000	5.000
1996-97	20.62	9.182		9.182	9.182
		8.858		8.858	8.858
		2.580	5.600		5.600
1997-98	21.21	21.210	42.420		42.420
1998-99	14.82	6.120	12.240		12.240
		7.750	13.000		13.000
		0.950	2.000		2.000
1999-2000	50.199	3.290	6.580		6.580
		4.641		4.641	4.641
		35.460	70.100		70.100
		5.690	16.740		16.740
		1.118	2.236		2.236
2000-01	36.005	14.405	28.810		28.810
		8.100		8.100	8.100
		13.500		13.500	13.500
2001-02	7.481	3.641		3.641	3.641
		3.840	7.680		7.680
2002-03	4.020	4.020	8.040		8.040
2003-04	12.356	12.356	24.720		24.720
2004-05	833.39	1.000	2.000		2.000
		4.390	8.780		8.780

		6.450	14.000		14.000
		816.300	1632.600		1632.600
		3.000	3.000		3.000
		2.250	0.00	0.00	0.00
		6.000	10.00		10.00
		1.250	0.00	0.00	0.00
		0.800	0.00	0.00	0.00
		2.900	0.00	0.00	0.00
		3.725	7.450		7.450
		3.000	0.00	0.00	0.00
		2.000	0.00	0.00	0.00
		2.944	6.000		6.000
		2.500	5.000		5.000
		0.950	0.00	0.00	0.00
		27.660	50.720		50.720
		7.500	0.000	0.00	0.000
		0.900	0.000	0.00	0.000
		1.000	2.000		2.000
		26.500		26.500	26.500
		0.500	0.000	0.00	0.000
		2.000	0.000	0.00	0.000
		8.837	17.674		17.674
		0.609	1.218		1.218
		0.600	0.000	0.00	0.000
		1.000	0.00	0.00	0.00
		2.038	4.076		4.076
		2.000	0.00	0.00	0.00
		1.500	0.00	0.00	0.00
		2.000	0.00	0.00	0.00
		1.680	2.00		2.00
		2.000	0.00	0.00	0.00
		155.100	310.00		310.00
		2.850	0.00	0.00	0.00
		21.900	42.00		42.00
		26.460	53.000		53.000
		3.600	7.200		7.200
		3.900	2.800		2.800
		13.621	25.50		25.50
		44.140	88.28		88.28
		2.896	5.790		5.790
		119.900	240.000		240.000
2005-06	25.119				
2006-07	77.056				
2007-08	222.128				
2008-09	184.460				

2009-10	748.132	6.580	14.000		14.000
		27.970	56.000		56.000
		2.751	4.502		4.502
		418.500	837.000		837.000
		195.310	390.600		390.000
		7.021	14.000		14.000
		2.000		2.00	2.000
		35.000	70.000		70.000
		53.000	106.000		106.000
2010-11	9.075	1.795	3.590		3.590
		1.900	2.800		2.800
		4.380	8.760		8.760
		1.000	2.000		2.000
2011-12	6.911	2.000	2.000		2.000
		0.671	1.340		1.340
		3.240	6.500		6.500
		1.000	2.000		2.000
2012-13	368.69	1.000	2.000		2.000
		1.000	2.000		2.000
		83.230	166.460		166.460
		13.110	26.220		26.220
		18.440	36.880		36.880
		4.410	7.820		7.820
		3.720	7.440		7.440
		4.720	9.440		9.440
		161.771	323.542		323.542
		45.264	90.528		90.528
		32.025	64.050		64.050
2013-14	43.587	13.800	27.600		27.600
		1.750	3.500		3.500
		3.600	7.200		7.200
		8.880	17.760		17.760
		9.802	2.760	8.4226	11.183
		1.610	3.220		3.220
		1.000	2.000		2.000
		3.144	6.288		6.288
2014-15	1.00	1.000	2.000		2.000
2015-16	7.56	2.160	4.320		4.3200
		5.400	11.000		11.0000
2016-17	51.162	15.581	16.000	8.00	24.000
		0.710	1.420		1.420

655485/2022/NA

		13.564	30.000		30.000
		21.307	43.000		43.000
2017-18	89.621	4.844	10.000		10.000
		1.000	2.000		2.000
		83.777	167.554		167.554
2018-19	40.62	6.00	2.00	5.00	7.00
		0.069			
		1.00	2.00		2.00
		1.00	2.00		2.00
		6.00	12.000		12.00
		23.547	47.094		47.094
		2.00		2.00	2.00
		1.00	2.00		2.00
2019-20	40.48	20.50		20.50	20.50
		19.976	39.95		39.95
2020-21	1157.353	425.5		425.5	425.5
		523.046		523.046	523.046
		208.807	419.5		419.5
2021-22	131.944	23.782	48		48.00
		108.162	218.23		218.23
		1.483	3.0		3.0
		5652.39	7551.71	1840.60	9391.70

(e) Year-wise total compensatory afforestation carried out in the State since 1980

Sr No.	Fin Year	Diverted Forest land (in Ha.)	Proposed/Stipulated			Carried Out		
			CA Details (in Ha.)		Total (6+7)	CA Details (in Ha.)		Total (10+11)
			DFL	NFL		DFL	NFL	
1	2	3	6	7	9	10	11	13
1	1980-81	0	0	0	0	0	0	0
2	1981-82	170.2	0	170.2	170.2	0	0	0
3	1982-83	0	0	0	0	0	0	0
4	1983-84	2.63	5.26	0	5.26	5.26	0	5.26
5	1984-85	299.69	562.56	22.35	584.91	492.56	22.35	514.91
6	1985-86	25.18	0	25.18	25.18		25.18	25.18
7	1986-87	116.507	34	100.02	134.02	34	100.02	134.02
8	1987-88	9.788	0	9.788	9.788	0	9.788	9.788
9	1988-89	0	0	0	0	0	0	0
10	1989-90	86.702	17.8	77.42	95.22	17.8	77.42	95.22
11	1990-91	0	0	0	0	0	0	0
12	1991-92	96.515	65.3	65.14	130.44	65.3	65.14	130.44
13	1992-93	132.678	0	132.678	132.678	0	132.678	132.678
14	1993-94	203.348	315.344	45.91	361.254	315.344	45.91	361.254
15	1994-95	297.68	359.32	118.02	477.34	359.32	118.02	477.34
16	1995-96	5	0	5	5	0	5	5
17	1996-97	20.62	5.6	18.04	23.64	5.6	18.04	23.64
18	1997-98	21.21	42.42	0	42.42	42.42	0	42.42
19	1998-99	14.82	27.24	0	27.24	27.24	0	27.24
20	1999-20	50.199	95.656	4.641	100.297	95.656	4.641	100.297
21	2000-01	36.005	28.81	21.6	50.41	28.81	21.6	50.41
22	2001-02	7.481	7.68	3.641	11.321	7.68	0	7.68
23	2002-03	4.02	8.04	0	8.04	4.44	0	4.44
24	2003-04	12.356	24.72	0	24.72	17.16	0	17.16
25	2004-05	833.39	1660.38	0	1660.38	1080.12	0	1082.12
26	2005-06	25.119	28.45	0	28.45	0	0	0
27	2006-07	77.056	71.612	26.5	98.112	0	0	0
28	2007-08	222.128	418.476	0	418.476	0	0	0
29	2008-09	184.457	362.37	0	362.37	0	0	0
30	2009-10	748.132	1492.102	2	1493.502	0	0	0
31	2010-11	9.08	17.15	0	17.15	165.8024	0	165.8024
32	2011-12	6.91	11.84	0	11.84	1120.8	0	1120.8
33	2012-13	368.698	736.088	0	736.088	0	0	0
34	2013-14	43.586	70.328	8.4226	78.7506	1969.452	0	1969.452

35	2014-15	1.00	2.00	0	2.00	0	0	0
36	2015-16	7.56	15.32	0	15.32	0	0	0
37	2016-17	51.162	90.42	8	98.034	518.71	8.4226	527.1326
38	2017-18	89.621	179.554	0	179.554	0	0	0
39	2018-19	40.616	67.094	7	74.094	366.112	8	374.112
40	2019-20	40.476	39.952	20.5	60.452	672.566	17	689.556
41	2020-21	1157.353	419.5	948.546	1368.046	175.596	20.5	196.096
42	2021-22	131.944	269.23	0	269.23	0	0	0
		5480.72	7551.71	1840.60	9392.31	7587.7484	699.71	8289.448

(f) Brief description and abstract of the monitoring work done by the Monitoring and Evaluation Wing of the State Forest Department.

The routine monitoring of the activities undertaken by State CAMPA, Assam is carried out by the team consisting of the Sr. officials as per the following monitoring mechanisms:

Sl. No.	Rank	% of number of works under execution to be monitored in respective jurisdiction
1	Range Officer	100%
2	Assistant Conservator of Forests	75%
3	Divisional Forest Officer	25%
4	Conservator of Forests / Circle-In-Charge	10%
5	Wing Head / Zonal In-Charge / Project Head	05%
6	Senior Officers above the rank of CCF from the O/o the PCCF & HoFF, Assam	Whenever they visit field as per availability of time

(g) Brief description and abstract of the monitoring work done by the independent monitor (Third party monitoring) in the State.

The monitoring and evaluation of CAMPA activities are conducted by a third party. Monitoring & Evaluation of CAMPA works for the years 2010-11 to 2018-19 had already been carried out by the Green Initiative Certification and Inspection Agency Pvt. Ltd. (GICIA India Pvt. Ltd). These reports had already been submitted to the Ad-hoc CAMPA/National CAMPA, MoEF& CC, Govt. of India along with the previous years Annual Plans of Operation (APO). The Monitoring & Evaluation for the years **2019-20** and **2020-21** will also be carried out shortly as the tendering process for hiring of third party is being initiated.

PART-II
ACTIVITIES TO BE UNDERTAKEN FOR COMPENSATORY AFFORESTATION AS PER SITE-SPECIFIC SCHEMES SUBMITTED BY THE STATE ALONG WITH THE APPROVED PROPOSALS FOR DIVERSION OF FOREST LAND UNDER THE FOREST (CONSERVATION) ACT, 1980

(a) Forest division-wise details of new compensatory afforestation to be done as per the conditions imposed under forest clearance granted by the Central Government under the Forest (Conservation) Act, 1980.

(b) Location, estimated cost and implementation schedule of each activity proposed to be executed from State Fund.

The list of proposals with details mentioned at point no (a) and (b) above is given in **ANNEXURE – II**.

Implementation schedule for plantation and nurseries

Activities		Starting Year	1st year	2nd year	3rd year	4th year	5th year	6th Year	7th Year	8th Year	9th Year	10th Year
Advanced work including site nursery	Site nursery	Apr-Mar	Apr-Mar	Apr-Mar								
	Survey & demarcation	Oct										
	Jungle clearing & Slash disposal	Nov-Dec										
	Fencing & Infrastructure activities	Jan-Feb										
	Lining & Stacking	Feb										
	Making inspection paths	Feb										
Creation	Soil working & Pitting	Feb										
	Planting & Seedlings	Mar- May										
Maintenance	1st weeding		Jun-Jul	Apr	Apr	Apr	Apr					
	Vacancy filling			Apr-May	Apr-May							
	2nd Weeding		Jul-Aug	Jun-Jul	Jun-Jul	Jun-Jul	Jun-Jul					
	3rd Weeding		Sept-Oct	Aug-Sept	Aug-Sept	Aug-Sept	Aug-Sept					
	4th Weeding		Nov	Oct-Nov	Oct-Nov							

Mechanical thinning								Nov				
Silvicultural operation such as climber cutting								Nov	Nov	Nov	Nov	Nov
Mulching & Fire protection works		Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan	Jan
Maintenance of camp hut			Apr	Apr	Apr	Apr	Apr	Apr	Apr	Apr	Apr	Apr
Maintenance of fencing								Apr				
Protection by watch & ward		Apr-Mar	Apr-Mar	Apr-Mar	Apr-Mar	Apr-Mar	Apr-Mar					

(c) Details of maintenance works in physical and financial terms proposed to be undertaken during 2022-23 in the case of compensatory afforestation work undertaken in previous years, which need maintenance for its survival and sustainability.

Sl. No.	Maintenance of Site Specific Plantation undertaken in previous year	Area (in Ha.)	Financial (in lakhs)
1	Creation and 1 st year maintenance	467.452	434.41
2	2nd year maintenance of earlier created SSP(Committed)	8.92	1.80
3	3rd year maintenance of earlier created SSP (Committed)	531.05	70.31
4	4th year maintenance of earlier created SSP (Committed)	436.74	46.69
5	5th year maintenance of earlier created SSP (Committed)	252.42	5.14
	TOTAL	1696.582	558.35

PART-III
ACTIVITIES TO BE UNDERTAKEN FROM NET PRESENT VALUE AND INTEREST COMPONENT

(a) Forest division wise details of activities to be done in the State on specified activities referred to in rule 5 and rule 6.

(b) Location and estimated cost and implementation schedule of each activity proposed to be executed from State Fund to be provided district / division wise.

The list of proposals with details mentioned at point no. (a) and (b) above is given in ANNEXURE - III.

Cost norms of plantations carried out from Net Present Value are attached as Annexure - IV.

Estimates of proposed infrastructures (buildings for frontline staff attached as Annexure - V.

Estimate of Maintenance of Nurseries is attached as Annexure-VI.

(c) Details of maintenance works in physical and financial terms, proposed to be undertaken during 2022-23 in the case of activities undertaken in previous years which need maintenance for their survival and sustainability.

ARTIFICIAL REGENERATION (AR)

Sl. No.	Maintenance of Artificial Regeneration (AR) undertaken in previous year	Area (in Ha.)	Financial (in lakhs)
1	Creation and 1 st year maintenance	1323	805.39
2	2 nd year maintenance of earlier created AR (Committed)	965	241.99
3	3 rd year maintenance of earlier created AR (Committed)	1000	222.72
4	4 th year maintenance of earlier created AR (Committed)	588	98.82
5	5 th year maintenance of earlier created AR (Committed)	502	75.06
	TOTAL	4378	1443.98

AIDED NATURAL REGENERATION (ANR)

Sl. No.	Maintenance of Aided Natural Regeneration (ANR) undertaken in previous year	Area (in Ha.)	Financial (in lakhs)
1	2 nd year maintenance of earlier created ANR (Committed)	580	139.39
2	3 rd year maintenance of earlier created ANR (Committed)	500	103.36
	TOTAL	1080	242.75

SAL COPPICE MANAGEMENT

Sl. No.	Maintenance of Sal Coppice Management undertaken in previous year	Area (in Ha.)	Financial (in lakhs)
1	2nd year maintenance of earlier created Sal Coppice (Committed)	235	21.79
2	3rd year maintenance of earlier created Sal Coppice (Committed)	100	7.87
3	4th year maintenance of earlier created Sal Coppice (Committed)	117	8.42
	TOTAL	452	38.08

APURUGYA BRIKSHA PLANTATION

Sl. No.	Maintenance of Apurugiya Briksha Plantation undertaken in previous year	Area (in Ha.)	Financial (in lakhs)
1	2 nd year maintenance	10 (2 unit)	1.28
2	4 th year maintenance	25 (5 unit)	3.20
3	5 th year maintenance	35 (7 units)	4.48
	TOTAL	70	8.96

NURSERY

Sl. No.	Maintenance of nurseries	Nos.	Financial (in lakhs)
1	1.5 ha Nursery	27	211.95
2	3.0 ha Nursery	5	82.95
	TOTAL	32	294.9

BIO-DIVERSITY PARK

Sl. No.	Maintenance of Bio-diversity Parks	Financial (in lakhs)
1	24 Nos.	40.83

PART-IV
MEASURABLE OUTPUT OF ALL PHYSICAL ACTIVITIES AND TARGETS OF EACH PERMISSIBLE ACTIVITY ALONG WITH THE PERIOD REQUIRED FOR ACHIEVING THE MEASURABLE OUTPUT

(a) Physical and financial targets of each activity to be undertaken in measurable quantity along with the estimated cost of such activities in tabular form including details provided in part II and part III.

Sl. No	Activities	Physical (in ha/ Nos)	Financial (Rs.In lakhs)	Under CAF Rules
Compensatory Afforestation (CA Fund)				
A	Site Specific Plantation			CA Plantation
	Fencing, Adv. work, and nursery	528.27	952.00	
	Creation & 1st year maintenance of earlier SSP and additional fund for fencing and Adv. work due to revised norms (Committed)	467.452	434.41	
	2nd year maintenance of earlier created SSP (Committed)	8.92	1.80	
	3rd year maintenance of earlier created SSP (Committed)	531.05	70.31	
	4th year maintenance of earlier created SSP (Committed)	436.74	46.69	
	5th year maintenance of earlier created SSP (Committed)	252.42	5.14	
	Total of Fencing & Adv. Work & Site Nursery	528.27	952.00	
	Total of SSP Maintenance (Committed)	1696.582	558.35	
Total Compensatory Afforestation Fund (CA Fund)			1510.35	
Work under NPV (80% of NPV Category)				
B	Artificial Regeneration (AR)			Rule 5 (2) (b)
	Fencing, Adv. work, and nursery	1753	3254.78	
	Creation & 1st Year maintenance and additional fund for fencing and Adv. work due to revised norms (Committed)	1323	805.39	
	2nd year maintenance of earlier created AR (Committed)	965	241.99	
	3rd year maintenance of earlier created AR (Committed)	1000	222.72	
	4th year maintenance of earlier created AR (Committed)	588	98.82	
	5th year maintenance of earlier created AR (Committed)	502	75.06	
	Total of Fencing & Adv. Work & Site Nursery	1753	3254.78	
	Total of Maintenance (Committed)	4378	1443.98	
	Sub Total of Artificial Regeneration			
C	Aided Natural Regeneration (ANR)			Rule 5 (2) (a)

	Fencing, Adv. work, and nursery (Holong conservation)	330	546.12	
	2nd year maintenance of earlier created ANR (Committed)	580	139.39	
	3rd year maintenance of earlier created ANR (Committed)	500	103.36	
	Total of Fencing & Adv. Work & Site Nursery	330	546.12	
	Total of Maintenance (Committed)	1080	242.75	
	Sub Total of ANR		788.87	
D	Sal Coppice Management			Rule 5(2) (a) & (c)
	Fencing, Adv. work, and nursery	25	39.46	
	2nd year maintenance of earlier created Sal Coppice (Committed)	235	21.79	
	3rd year maintenance of earlier created Sal Coppice (Committed)	100	7.87	
	4th year maintenance of earlier created Sal Coppice (Committed)	117	8.42	
	Total of Fencing & Adv. Work & Site Nursery	25	39.46	
	Total of Maintenance (Committed)	452	38.08	
	Sub Total of Sal Coppice		77.54	
E	Apurugya Briksha Plantation			Rule 5(2) (b)
	2nd year maintenance (Committed)	10 (2 unit)	1.28	
	4th year maintenance (Committed)	25 (5 unit)	3.20	
	5th year maintenance (Committed)	35 (7 unit)	4.48	
	Sub Total of Apurugya Briksha Plantation	70 (14 unit)	8.96	
F	Catchment Area Treatment Plan (Balance of DPR amount)	6122 ha.	3401.00	5 (2) (b)
G	Arboretum-cum-Bio resource Conservation Centre (5 ha.)	1 no.	50.00	Rule 5(2) (m)
H	High density planting as per Miyawaki Model in two plots under Kamrup East Division. (Fencing, adv. work and nursery)	4 ha.	20.61	5 (2) (b)
I	Soil Moisture conservation	4 nos.	76.00	Rule 5(2) (g)
J	2nd year maintenance of Bio Diversity Park	24 nos.	40.83	Rule 5(2) (b) and (m)
	Total of work under 80% of NPV		9162.57	32.05%
	Work under NPV (20% of NPV Category)			
K	Nursery Maintenance			
	1.5 ha Nursery (Committed)	27	211.95	

	3.0 ha Nursery (Committed)	5	82.95	
	Sub Total of Nurseries	32	294.9	
L	Infrastructure Development			Rule 5(3) (e)
	Construction of Range Office	2 nos.	99.64	
	Construction of Range Officer Qtr.	2 nos.	137.04	
	Construction of Forester Qtr.	4 nos.	149.12	
	Construction of Fgd. Qtr.	3 nos.	105.48	
	Construction of Assam Type Barrack	3 nos.	135.18	
	Anti Poaching Camp	1 no.	36.86	
	Development of Rhino land Wildlife Education Centre at Burapahar under Eastern Assam Wildlife Division.	1 no.	74.34	
	Solar reflector at Deepor Beel area	LS	25.00	
	Committed infrastructure activities due to revision of SOR	35 nos.	834.00	
	Sub Total of Infrastructure		1596.66	
M	Staff amenities for frontline field personnel	5 Divisions	21.00	Rule 5(3) (e)
N	Publicity & awareness	9 Divisions	52.43	Rule 5(3) (i)
O	Monitoring and Evaluation cost	LS	40.00	Rule 5(3) (h)
Total of work under 20% of NPV			2004.99	17.95%
Interest Accrued				
P	Sitting Fee and Allowances of nominated members of State CAMPA	LS	0.70	Rule 6(a)(v)
	Staff Salary of CEO office	LS	50.00	Rule 6(a) (iv)
	Sub-Total		50.70	60.00%
	Administrative expenditure	LS	33.80	Rule 6(b) (i) & (ii)
	Sub-Total		33.80	40.00%
Total Interest			84.50	
Others				
Q	Activities which were already approved in the APO of 2021-22 in the 2 nd phase but due to non availability of State budget provision in that year again included in the APO of 2022-23. Name of activities are- 1. Survey demarcation and Geo-referencing of Forest Boundary 2. Bio-diversity conservation (Peoples biodiversity Register 26 nos.) 3. Anti Poaching camp (5 nos.) 4. Floating Anti Poaching camp (2 nos.) 5. Const. of cages for rescue and transportation of Wild animals (13 nos.) 6. Procurement of Smart phones (Remaining 50 nos.)	-	532.5	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC Issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1	2	3	4	475.06	6	7	
	Manas			481.361	<p>Construction of Anti-poaching camp- 2 nos, Procurement of arms & ammunition, Procurement of hunting boat, Procurement of water filter- 20 nos, Procurement of solar chargeable torch light - 100 nos, Construction of culverts - 4 nos, Construction of gate - no., Creation of artificial earthen ponds - 4 nos, Construction of ACF qtr 1 no., Procurement of dart including drugs for tranquilizing gun, Purchase of Android phones- 7 nos, Removal of weeds - 20 ha., Dissimination workshop, Project Tiger allowance to fixed pay & AFFF staffs, Ration for formline staff, supply of medicine, mosquito net, kerosene, torch light & battery, Promoting eco-tourism, intelligence gathering, Installation of hand pump - 10 nos, Angement of elephants & contract staff, Defending court cases, Maint. of vehicles, Repairing of patrolling/Anti-poaching camps- 12 nos, Maint. office, wireless, computers, Repairing of fix base station, Medicine and feeds for treatment of captive elephants and rescued informers, Maint. of roads-40 km, Maint. of patrolling path cum fireline- 85 kms, Eradication of Leea and Chromoleana adarata- 4 ha, Distribution of Duckery to EDC- 19 nos.</p>	<p>Construction of Anti-poaching camp- 2 nos, Procurement of arms & ammunition, Procurement of hunting boat, Procurement of water filter- 20 nos, Procurement of solar chargeable torch light - 100 nos, Construction of culverts - 4 nos, Construction of gate - no., Construction of toilets - 7 nos, Creation of artificial earthen ponds - 4 nos, Construction of ACF qtr 1 no., procurement of dart including drugs for tranquilizing gun, Purchase of Android phones- 7 nos, Removal of weeds - 20 ha., Dissimination workshop, Project Tiger allowance to fixed pay & AFFF staffs, Ration allowance for formline staff, supply of medicine, mosquito net, kerosene, torch light & battery, Promoting eco-tourism, intelligence gathering, Installation of hand pump - 10 nos, Angement of elephants & contract staff, Defending court cases, Maint. of vehicles, Repairing of patrolling/Anti-poaching camps- 12 nos, Maint. office, wireless, computers, Repairing of fix base station, Medicine and feeds for treatment of captive elephants and rescued animals, rewards to informers, Maint. of roads-40 km, Maint. of patrolling path cum fireline- 85 kms, Eradication of Leea and Chromoleana adarata- 4 ha, Distribution of Duckery to EDC- 19 nos.</p>	
			47.00		<p>Targets are same as Central Share but amount is distributed in 90:10 ratio.</p>	<p>Targets are same as Central Share but amount is distributed in 90:10 ratio.</p>	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1	2 Kaziranga	3	4 893.425		6 Procurement of speed boat- 1 nos, country boats- 10 nos, Construction of Anti-poaching camps- 3 nos, Legal support & logistic for wildlife crime & investigation, voice recorder for crime investigation, Construction of multi-storied building for Forester & Forest Guard- 1 nos, Extension of vehicle shed, Construction of watch tower- 4 nos, Procurement of wireless set- 10 nos, Smartphone- 10 nos, Engagement of architects for various civil work, Procurement of computers, laptops, printers, copier, projector, projector screen and ancillary, Procurement of solar power storing batteries- 5 nos, Payment of Ex-gratia, Search operations, Eviction operations, Anti-depredation cost include crackers, kerosene, logistic, etc., Survey and consolidation of newly created Biswanath Wildlife Division, Ration allowance to field staff, Procurement of uniforms, medicine, portable tents, binocular, night vision gear etc	7	
			103.02				
			164.52	119.984	Legal Support for defending Court Case, To carryout prophylactic immunization of cattle in and around tiger reserve, establishing maintenance of existing patrolling camps/staff qtrs etc - 1 no., Procurement of night vision device, binoculars etc - 200 nos., Procurement of vehicles - 3 nos, Construction of culverts, patrolling camps - 7 nos, creation of road network, Creation of wireless tower- 5 nos, Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Day to day monitoring of wild animals, Capturing problematic and aberrant wild animals, Dissemination workshop, Provisional balance to staff of project tigers (Casual & Fixed pay), Ration allowance, Supply of medicine, Maint. of arms & ammunition, Torch, Maint. of qtrs, Beat office, DFO office, Range office etc. Weed eradication - 15 ha., Improvement of Grasland & Wetland - 80 ha. Procurement/Maint. of Elephant squad - 15 nos, Reward to informers.	Establishing maintenance of existing patrolling camps/staff qtrs etc - 1 no., Procurement of night vision device, binoculars etc - 200 nos., Procurement of vehicles - 3 nos, Construction of culverts, patrolling camps - 4 nos, Creation of road network, Creation of wireless tower- 5 nos, Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Day to day monitoring of wild animals, Capturing problematic and aberrant wild animals, Dissemination workshop, Provisional balance to staff of project tigers (Casual & Fixed pay), Ration allowance, Supply of medicine, Maint. of arms & ammunition, Torch, Maint. of qtrs, Beat office, DFO office, Range office etc. Weed eradication - 15 ha., Improvement of Grasland & Wetland - 8 ha. Procurement/Maint. of Elephant squad - 15 nos. Reward to informers.	
		1980.00					
	Nameri						

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1	2	3	4		6	7	
			11.98				
			267.00	239.8452	<p>Construction of patrolling camp-2 nos, Procurement of ammunition, Procurement of Uniform & other accessories, Procurement of country boat - 4 nos, Construction of culverts-5 nos, Construction of Dy. Ranger qtrs. - 1 nos, Creation of road network - 5 km., Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Procurement of computer, Laptop, Projector, Wages for 75 nos. Casual workers, Wireless handset etc., Procurement of satellite imageries, printing for management/Tiger Conservation Plan, Procurement of software, Construction of ACF qtr - 1 no., Creation of crop protection structure, procurement of cages to catch problematic animals - 1 no., Procurement of Tranquilizing gun & accessories - 1 no., Desilting of existing water bodies & Removal of woody plants from grassland, Dissemination workshop, Study course for appraisal of good practice in other reserves, Project allowances to permanent staff, Provision for ration allowance, Procurement of torch search light & batterie, Awareness campaign, Construction of hand pump - 15 nos & head tank - 2 nos, Cost of fuel for patrolling duty, Deployment of camp labourers for patrolling, Maint. of vehicles - 9 nos & country boats- 10 nos, Maint. of existing patrolling camps, -15, Maint. of office equipments & wireless, Providing veterinary checkup camps, Remuneration to informers, Maint. of bridges - 6 nos, Maint. of Forest Guard & Forester qtrs, Maint. of Kuccha roads.</p>	<p>Construction of patrolling camp-2 nos, Procurement of ammunition, Procurement of Uniform & other accessories, Procurement of country boat - 4 nos, Construction of culverts-5 nos, Construction of Dy. Ranger qtrs. - 1 nos, Creation of road network - 5 km., Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Procurement of computer, Laptop, Projector, Wireless handset etc., Procurement of satellite imageries, printing for management/Tiger Conservation Plan, Procurement of software, Construction of ACF qtr - 1 no., Creation of crop protection structure, procurement of cages to catch problematic animals - 1 no., Procurement of Tranquilizing gun & accessories - 1 no., Desilting of existing water bodies & Removal of woody plants from grassland, Dissemination workshop, Project allowances to permanent staff, Provision for ration allowance, Procurement of torch search light & batterie, Awareness campaign, Construction of hand pump - 15 nos & head tank - 2 nos, Cost of fuel for patrolling duty, Deployment of camp labourers for patrolling, Maint. of vehicles - 9 nos & country boats- 10 nos, Maint. of existing patrolling camps, - 15, Maint. of office equipments & wireless, Providing veterinary checkup camps, Remuneration to informers, Maint. of bridges - 6 nos, Maint. of Forest Guard & Forester qtrs, Maint. of Kuccha roads.</p>	
	Orang						

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1	2	3	4	24.15424	6	7	
			26.70		Basic health care camps. To carryout prophylatic immunization of cattle in and around Tiger Reserve, Organizing joint patrolling, Procurement of uniforms & other accessories for staff. Creation of road network - 5 km., Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Capturing problematic & aberrant wild animals, supply of fiel kit, Legal support for defending court cases, Maint. of vehicles - 1 no., Maint. of country boats - 10 nos, Maint. of office equipments, Providing veterinary checkup camps, Remuneration to informer, Maint. of bridges - 6 nos, Maint. of DFO office, Maint. of earthen ponds - 2 nos, Maint. of Forest Guard qtrs - 10 nos, Maint. of Forester qtrs - 2 nos, Maint. of Kuccha roads - 10 nos, Maint. of Rangers qtr - 1 no. Capacity building & training.	Basic health care camps. To carryout prophylatic immunization of cattle in and around Tiger Reserve, Organizing joint patrolling, Procurement of uniforms & other accessories for staff. Creation of road network - 5 km., Establishing monitoring system for Tiger Intensive Protection and Ecological status (M-stripes) monitoring - 50 nos, Capturing problematic & aberrant wild animals, supply of fiel kit, Legal support for defending court cases, Maint. of vehicles - 1 no., Maint. of country boats - 10 nos, Maint. of office equipments, Providing veterinary checkup camps, Remuneration to informer, Maint. of bridges - 6 nos, Maint. of DFO office, Maint. of earthen ponds - 2 nos, Maint. of Forest Guard qtrs - 10 nos, Maint. of Forester qtrs - 2 nos, Maint. of Kuccha roads - 10 nos, Maint. of Rangers qtr - 1 no. Capacity building & training.	
29	Project Elephant (90:10)	222.97	202.70	95.61348	Reward to informer, Intelligence gatherin & legal support, Running cost of patrolling vehicles & logistics for protection & anti-depredation measure, Procurement of ammunitions for using in anti-depredation activities, Immunization of livestock on the fringe area of ERs for protecting elephants against contagious disease, Drugs for tranquilizing equipments, Implementaion of MIKE, Improvment & Dev. of sensitive areas to reduced man-elephant conflict, Ex-gratia for loss of life and property due to elephant depredation, expedite movement of Anti-depredation team for quick action to scare elephants from human habitation & crop field to Reserve/Protected Areas, Raising of Bio-fencing by planting Bhoot Jalakia and lemon plants and other citrus species, Hiring of kunki elephant, Eco-development works in fringe villages of ERs and elephant corridors to reduce biotic pressure on elephant, Monitoring & study visit, training related visits and field visits etc., Veterinary support, Publicity & awarness programmes, Population estimation of wild elephants.	Reward to informer, Intelligence gatherin & legal support, Running cost of patrolling vehicles & logistics for protection & anti-depredation measure, Procurement of ammunitions for using in anti-depredation activities, Immunization of livestock on the fringe area of ERs for protecting elephants against contagious disease, Drugs for tranquilizing equipments and expedite movement of Anti-depredation teams of local villaers with logistic support for quick action to scare away elephant from human habitation and crop field to nearby Forest Reserve/Protected area.	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2018-19	Physical Achievement during 2018-19	Remarks
1	2	3	4		6	7	
30	Management Action Plan Biosphere Reserve Manas & Dibru-Saikhowa	67.00	0.00	0.00	NIL	NIL	
31	National River Conservation	0.02	0.00	0.00	NIL	NIL	
32	SPA for Assam State Zoo	0.10	0.00	0.00	NIL	NIL	
33	National Bamboo Mission	0.10	0.00	0.00	NIL	NIL	
	Total of CSS	2930.19000	2549.95000	1078.74792			
	Total (A+B+C)	12631.28000	4597.77000	2320.75088			

FINANCIAL & PHYSICAL STATUS UNDER THE SOPD, EAP & CS Schemes DURING 2019-20

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
A	SOPD									
1	Social Forestry (General)	350.00	0.00	0.00	0.00	350.00	89.35491	Pt. A - Nursery (Maint.) - 2 nos. Park (Maint.) - 9 nos. Single Planting (Maint.) - 46 nos. Pt. B - Plantation Advance work - 105. Ha. 1st year creation & Maintenance of Plantation - 40 Ha. Social Forestry park for aesthetic & beatification at Raj Bhavan - 1 no. 1st year creation of Single Planting - 511 nos.	Park (Maint.) - 2 nos Pt. B - Plantation Advance work - 25 ha Social Forestry park for aesthetic & beatification at Raj Bhavan - 1 no. 1st year creation of Single Planting - 191 nos	
2	Rehabilitation of Degraded Forests	700.00	0.00	0.00	0.00	700.00	0.00	C.C.F.(T), UAZ = 3rd year maintenance of RDF area carried out during 2017-18 - 115.16 ha., 3rd year maintenance of I.F.C.R.D.F. carried out during 2017-18 - 75 ha., Advance work, creation & 1st year maintenance during 2019-20 - 112.82 ha. C.C.F.(T), LAZ = 2nd year maintenance of ptn. created under RDF during 2017-18 - 163.85 ha., 2nd year maintenance of ptn. created under improvement of Forest Cover through restoration and afforestation during 2017-18 - 141.76 ha., Advance work, creation & 1st year maintenance - 146.2 ha. C.C.E.(T), SE = 3rd year maintenance of block Pt. A: 3rd year maint. of plantation- 5 Ha., 4th year maint. of Nursery 13.5 ha., 3rd year maint. of single planting 444 nos. Pt. B: Advance works of plantation- 30 ha. 1st year creation & maintenance - 20 ha. 1st year creation & maintenance of single planting - 267	NIL	
3	Tribal Sub Plan	120.00	0.00	0.00	0.00	120.00	0.00			
4	Schedule Caste Component Plan	250.00	0.00	0.00	0.00	250.00	0.00			
5	Bio-diversity Board (Salary)	17.11	0.00	0.00	2.27	19.38	19.38	Pay & Allowances of staffs and Preparation of PBRs, Capacity building workshop at BMC levels, Biodiversity Heritage Site Management, Constitution of BMCs, Publication, Publicity, Salary Component for newly recruited constables at KNP		
6	Bio-diversity Board (Non-Salary)	52.9	0.00	0.00	200.00	252.90	52.90	Pay & Allowances of staffs		
7	Special Rhino Protection Force	233.97	0.00	0.00	0.00	233.97	233.97	Salary Component for newly constables at KNP		

Sl. No.	Name of the Scheme	Budget	CSS Budget			SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share							
1	2	3	4	5	6	7	8	9	10	11	
8	Raising People's Nurseries/ Plantation of Medicinal & Aromatic Plants	200.00	0.00	0.00	0.00	200.00	184.50	Creation of People's Nursery beneficiaries @Rs.50,000 by 400 beneficiaries	Creation of People's Nursery @Rs.50,000 by 369 beneficiaries		
9	Greening of Greater Guwahati	100.00	0.00	0.00	0.00	100.00	0.00	Single Planting 1000 nos., Improvement & renovation of Medicinal & Aromatic Garden at Chakradeo-2.5 ha., Saraighat Park - ha. & Gandhmow- 2.5 ha.	NIL		
10	Reducing Man Elephant Conflict	1045.00	0.00	0.00	0.00	1045.00	40.01651	i) Formation of Anti-depredation squads of local villagers and providing logistics to them including hire charge of vehicle. ii) Installation of Electric Fencing in the strategic locations to reduce damage of life and property due to elephant depredation of 100 Km iii) Digging of Elephant proof trenches in different areas of the state of 100 Km. iv) Purchase of search lights for use in Anti-depredation works-100 nos v) Purchase of ammunitions for use in Anti-depredation works vi) Publicity and awareness campaign	i) Formation of Anti-depredation squads of local villagers and providing logistics to them including hire charge of vehicle.		
11	Assam Forest School (Training of Staff)	260.00	0.00	0.00	0.00	260.00	41.20951	Dir., Assam Forest School, Jalukbari – Field visit, Sports & Game, Organizing Examination, Office expenditure, Maint. of Water supply, Electricity, Sanitary works, Office compound/ Garden, Cleaning of Drain/Nallah, Maint. of Director residence compound, Hostel compound, Play ground, Repairing of Officers & Staff quarters, Landscaping inside the AFS, Maint of vehicle, Purchase of Furniture, Signboard, Painting & repairing of old staff quarters, Demolishing of old building, Improvement of road & new Administrative building, Construction of Septic tank, Parking shed for departmental bus, Construction of pathway in Director Residence, Setting up LAN installation of Lightening Protector etc & supply of GIS Lab Assistant & Computer Assistant as contractual staff, Purchase of uniform etc. Supdt., Assam Forest Guards School – Field visit, exposure tour of trainee, local tour, sports & games, org. exam, org. convocation, office expenditure, honorarium of guest lecture etc.,	Dir., Assam Forest School, Jalukbari – Field visit, Sports & Game, Organizing Examination etc., Improvement of road & new Administrative building, Setting up LAN installation of Lightening Protector etc & supply of GIS Lab Assistant & Computer Assistant as contractual staff		

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
12	Forest Research	150.00	0.00	0.00	0.00	150.00	136.81006	<p>1. Elephant Proof Solar Fencing at Silviculture Complex, Basistha, Renovation of Tissue Culture Laboratory, Materials purchase for Research Laboratory, Renovation & Improvement of Herbal Garden, Maintenance of Orchid House, Study of Preservation, Experimental & Sample plot for Bio-Diversity conservation, Re-survey & Maintenance of Old Non maintenance plots, Ethnobotany study among different Tribes.</p> <p>2. Up gradation of Digboi Arboretum.</p> <p>3. Maintenance of Seeds Stands, Seeds Orchards, Botanical at Basistha Rattan House at Lakhpathar, HI-Tech Nursery at Rani under Genetic Cell Divn., Collection of Germ-Plasm under Genetic Cell Divn., Expansion of quality planting materials in HI-Tech nursery at Rani, Publicity & Display Materials. Renovation works at DEO office Genetic</p>	<p>1. Basistha, Renovation of Tissue Culture Laboratory,, Renovation & Improvement of Herbal Garden, Maintenance of Orchid House, Study of Preservation, Experimental & Sample plot for Bio-Diversity conservation, Re-survey & Maintenance of Old Non maintenance plots, Ethnobotany study among different Tribes.</p> <p>3. Maintenance of Seeds Stands, Seeds Orchards , Botanical at Basistha Rattan House at Lakhpathar, HI-Tech Nursery at Rani under Genetic Cell Divn., Collection of Germ-Plasm under Genetic Cell Divn., Expansion of quality planting materials in HI-Tech nursery at Rani, Publicity & Display Materials. Renovation works at DEO office Genetic</p>	
13	Forest Publicity	100.00	0.00	0.00	0.00	100.00	75.97480	<p>i) Organizing the State Level Functions viz. Vanamahatsava & Wildlife Week, 2019.</p> <p>ii) Circle / Division Level functions viz. Vanamahatsava & Wildlife Week, 2019.</p> <p>iii) Celebration of World Wetland Day on 2nd February, 2020.</p> <p>iv) Publication of a handbook on flowering and fruiting, nursery technique etc of indigenous tress of Assam.</p>	<p>i) Organizing the State Level Functions viz. Vanamahatsava & Wildlife Week, 2019.</p> <p>ii) Circle / Division Level functions viz. Vanamahatsava & Wildlife Week, 2019.</p> <p>iii) Celebration of World Wetland Day on 2nd February, 2020.</p> <p>iv) Publication of a handbook on flowering and fruiting, nursery technique etc of indigenous tress of Assam.</p>	
14	CAMPA	5741.28	0.00	0.00	0.00	5741.28	0.00			Under CSS in SL. No. 11

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
15	Development of Forest Village	100.00	0.00	0.00	0.00	100.00	6.30664	<p>A. UAZ wing-</p> <ol style="list-style-type: none"> 1. Digboi Divn.- Dairy farming, Duckery with layers, Supply of Piglets (Hybride). 2. Sivasagar Divn.- Improvement of forest road (Sigloo pathar to Singloo Taungya, Improvement of Sapekhati Forest village road at Sapekhati, 3. Jorhat Divn.- Development of Handloom, yarns (Dissoi Valley FV), Piggery (Dissoi Valley FV) 4. Dhemajli Divn.- Improvement of Gali Mechaki Road (Gali Borbali FV), Culvert (Gali Borbali FV), Improvement of road from NH – 52 to Rajakhana (Bijoypur FV), Culvert (Bijoypur FV). 4. Sonitpur East Divn.- Ring wells, Roads (Diplonga, Pabhoi Range). <p>B. LAZ wing-</p> <ol style="list-style-type: none"> 1. Cachar Divn.- Improvement of Forest Road under Borak R.F. in Krishnapur Tangya village. 2. Karimganj Divn.- Construction of Ring well, Repairing & renovation of Milkantapur Forest Village road under Lowairpowa Range, Free LPG connection to the BPL villagers. 3. Kamrup East Divn.- Improvement of Joypur Secha Forest Road under Rani Range. 4. Kamrup West Divn.- Solar home light system, model MAC632M under Bamunigaon, Kulsai, Loharghat Range, Solar street light, model no.MACSSL9WIL under Bamunigaon, Kulsai & Loharghat Range, Construction of ring well under Bamunigaon, Kulsai & Loharghat Range. 	<p>Kamrup West Divn.- Solar home light system, model MAC632M under Bamunigaon, Kulsai, Loharghat Range, Solar street light, model no.MACSSL9WIL under Bamunigaon, Kulsai & Loharghat Range, Construction of ring well under Bamunigaon, Kulsai & Loharghat Range.</p>	

Sl No.	Name of the Scheme	Budget	CSS Budget			SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share							
1	2	3	4	5	6	7	8	9	10	11	
16	Amenities to Staff and Labour	200.00	0.00	0.00	0.00	200.00	12.81765	<p>PCCF, Wildlife, Ghy Provision of drinking water facilities (water filters) under Amchang, Pobitora, Gibbon, Panidihing, Dibru-Saikhowa, Nabor Duigrung, Dihing Patkai & Chakrasila Wildlife Sanctuaries (8 nos.) Provision of sanitary latrines in Pobitora, amchang, Gibbon, Panidihing, Dibru-Saikhowa, Borjan Bherjan Padumoni, Nabor Doigrung, Dihing Patkai, Borail & Chakrasila. Provision of mosquito nets in all anti-poaching camps under Wildlife sanctuaries. CCF(T) UAZ, Ghy. Provision of Drinking water facility, Construction of Toilet, Purchase of Solar lamps, Tents, Computer table, Putensil, Mosquito net, Photostat machine, Water filter, Aqua guard, Electric fan, Generator, Inverter, Purchase of furniture & Electrification of the Division etc. CCF(T) LAZ, Ghy. Installation of Drinking Water facility-1 no., Purchase inverter-2 nos., Purchase of Fan-19 nos., Purchase of light-2 nos., Purchase of Xerox Machine-4 nos., Purchase of printers-2 nos., Construction Common Toilet-2 nos., Purchase aqua sure water filter-15 nos., Purchase of Computer set-1 no., Purchase of Scanner-1 no., Purchase of almirah-29 nos., Construction of Ring well-1 no., Purchase of Chair-13 nos., Purchase of</p>	Provision of drinking water and sanitary latrines in Pobitora, Procurement of mosquito nets.		
17	Development of National Parks and Wildlife Sanctuaries	200.00	0.00	0.00	0.00	200.00	90.14382	<p>Procurement of POI, Maint. of Mechanized Boat, Wages of Casual Worker, Office Expenses including Camp, Procurement of Country Boats, Maint. of Patrolling path, Maint. of Camp, Publicity Material & Eco Dev., Repairing Anti-Poaching Camp, Purchase of Camera Traps for capturing the elusive animals in photo and estimating number, Maint. of Vehicles and Vaccination of cattle in fringes villages including coast of vaccination.</p>	Procurement of POI, Maint. of Mechanized Boat, Worker, Office Expenses including Camp, Maint. of Camp,		
18	Development of Other Wildlife Areas	130.00	0.00	0.00	0.00	130.00	85.22545	<p>1. Antipoaching Operation & Rescuing of Wild Animal. 2. Celebration of Wildlife Week & Publicity materials etc. 3. Logistic support to the villages for dealing with the elephant depredation in the villages.</p>	1. Antipoaching Operation & Rescuing of Wild Animal. 2. Logistic support to the villages for dealing with the elephant depredation in the villages.		

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
19	Working Plan Organisation	100.00	0.00	0.00	0.00	100.00	0.00	Scheme not submitted	NIL	
20	Forest Protection Force	100.00	0.00	0.00	0.00	100.00	8.50496	1st. AFPF Bn. - Construction of staff Quarter Basisstha, Guwahati (RCC Ground Floor, 1 No = 4 unit). 2nd AFPF Bn. - i) Construction of Gymnasium House with Gyne Equipments at 2nd AFPF H.Q. Seconee, Nagaon. ii) Construction of Quarter attached Kitchen (5 nos.) & construction of 2 seater Latrine & 2 nos. Bathroom at 2nd Assam Forest Protection Force, Seconee, Jakhatabandha in Nagaon District for 19-20. iii) Construction of Assam Type Barrack with kitchen at 2nd AFPF at Secoknee, Jakhatabandha.	1st. AFPF Bn. - only part payment against the works	
21	Modernization of Assam State Zoo	500.00	0.00	0.00	200.00	700.00	483.05679	i. Construction of Giraffe and Zebra enclosures in Assam State Zoo. ii. Animal Exchange Programme. iii. Construction of Boundary walls, drains, roads, etc.	ii. Animal Exchange Programme. iii. Construction of Boundary walls, drains, roads, etc.	
22	Rehabilitation of Dadhia & Laikia Village under Dibru-Saikhowa National Park (WL)	0.01	0.00	0.00	0.00	0.01	0.00	NIL	NIL	
23	Communication for General Areas Roads & Bridges	160.00	0.00	0.00	0.00	160.00	11.88	Improvement of forest Road -72.5 km. Culvert - 4 nos, Earth filling - 300 Rm & Internal road - 0.40 Km with Drainage system - 0.041.	Improvement of Forest road-6 km	
24	Building for General Areas	200.00	0.00	0.00	0.00	200.00	21.21649	Construction of Fr-I & Fgd Qtr-5 nos., Repairing & renovation of Qtr. & Office-17 nos., Boundary Gate-1 no.	Construction of Fr-I & Fgd Qtr-1 nos., Repairing & renovation of Qtr. & Office-1 nos.	
25	Dir. Forest Building	0.01	0.00	0.00	0.00	0.01	0.00	NIL	NIL	
26	Assam Climate Change Management Society	50.00	0.00	0.00	0.00	50.00	50.00	Carbon Neutrality of Majuli : Electroning transport system, Installation of Solar panels, Up-gradation of Brick-kiln for low carbon emissions- Consultant fee, Data Operator 7 office expenses etc.	Rs.0.26 lakhs could be utilized against the approved works.	
27	Timber Treatment Seasoning Plant	150.00	0.00	0.00	0.00	150.00	0.00	Saw Milling, Wood processing, Joinery Unit, etc.	NIL	
28	Forest School Kajalgaon	300.00	0.00	0.00	0.00	300.00	0.00	DPR, land acquiring and civil for construction of Forest School	NIL	

Sl. No.	Name of the Scheme	Budget	CSS Budget			SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share							
1	2	3	4	5	6	7	8	9	10	11	
29	Interpretation Centre Cum Museum at Manas & Digboi	1000.00	0.00	0.00	0.00	1000.00	1000.00000	Construction of Interpretation Centre Cum Museum at Manas & Digboi	Running bill submitted for construction of Interpretation Centre Cum Museum		
30	Road Side Plantation of National Highways	0.00	0.00	0.00	200.00	200.00	0.00	Single planting along NH for distance of 1409.7 Km.	NIL		
31	Deepor Beel Conservation & Development Society & Assam Wetland Society	0.00	0.00	0.00	37.00	37.00	0.00	Purchase of equipments, office items & wages of contractual staffs	NIL		
32	Deployment of Modern Technology & Communication System for forestry & Wildlife Conservation & Management	0.00	0.00	0.00	100.00	100.00	97.37847	Procurement and customisation of Anti-Depredation Quick Response Vehicle. Supply and installation of lights on Anti-Depredation Quick Response Vehicle. Setting up of digital communication network in Rajiv Gandhi Orang National Park, Installation of solar street lighting in the Subculture Division, Procurement of surveillance Quadcopter for forest and wildlife management, Procurement of day camera module with thermovision sensor base module for	Procurement and customisation of Anti-Depredation Quick Response Vehicle. Supply and installation of lights on Anti-Depredation Quick Response Vehicle. Setting up of digital communication network in Rajiv Gandhi Orang National Park, Installation of solar street lighting in the Subculture Division, Procurement of surveillance Quadcopter for forest and wildlife management, Procurement of day camera module with thermovision sensor base module for		
33	Air & Water Pollution Control Board	0.00	0.00	0.00	1904.00	1904.00	0.00	Proposal submitted for rejuvenation of Bharalu River, Borsola, Silsako Beel	NIL		
34	FDI (Flood Damage Restoration)	0.00	0.00	0.00	1000.00	1000.00	0.00	Proposal not submitted	NIL		
	TOTAL of SOPD	12550.28	0.00	0.00	3643.27	16193.55	2743.32				
B	EAP										
34	EAP- Assam Project on Forest & Bio-diversity Conservation Society (APFBC)	0.00	1125.16	3200.00	0.00	4325.16	0.00	Salary Component for contractual staff	NIL		
35	EAP- Capacity Building for Forest Management & Training of Personal (JICA)	0.00	35.00	0.00	0.00	35.00	0.00		NIL		
	TOTAL of EAP	0.00	1160.16	3200.00	0.00	4360.16	0.00				
C	CSS										
36	National Afforestation Programme	0.00	12.00	120.00		132.00	0.00	GoI approval not received	NIL		

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
37	Forest Fire Prevention & Management	0.00	30.00	300.00		330.00	0.00	<p>i) Procurement of fire fighting equipments</p> <p>ii) Controlled burning, fire line creation and maintenance</p> <p>iii) Creation of infrastructure (communication system, development of Management Information System, watch tower, forest roads, water storage structures, control rooms at Division & Range level, FG barracks and inspection huts etc.</p>	Amount of Rs.93.23 lakhs released during 2018-19 and revaluated during 2019-20 utilized by 2 (two) divisions, Dima Hasao East Division and Dima Hasao West Division amounting to Rs.20.57 lakhs. Remaining 6 (six) divisions yet to utilize the fund.	
38	National River Conservation	0.00	5.00	50.00		55.00	0.00	<p>A. UAZ wing-</p> <p>(i) Dibrugarh Divn.- Clearing light jungles, Earthwork in bank trimming, Supply of Geo-textile bags of type-A, Supply of non woven geo fabric sheet, Supply of Sewing Thread, Construction & supply of Wire-netting box, Filling & laying of Geo bags (With boat), Earth work in excavation, Labour charge for laying Geo fabric sheet as filter below pitching, Filling & laying of Geo bags (Without boat), Filling & laying in cage with sand filled Geo bags, Add contingencies -L/S.</p> <p>(ii) Lakhimpur Divn.- Clearing light jungles D/L 16 nos. @Rs.250/-, Earth work in bank trimming, Supply of Boulder 1500M3 with govt. royalty @Rs.650/-per m3, Labour charge for Boulder pitching at erosion site D/L 300 nos. @Rs.250/-, Supply of Sand 120M3 with govt. royalty @Rs.530/-per m3, Supply of Iron net (gali) 10.588 quintal @8500/-QH, Purchase of naked cement bag 500 nos. @Rs.10/- each, Filling & laying in cage with filled Sand & fitting fixing of sand bag with iron net at erosion site D/L 230 nos. @Rs.250/-, Add. Contingency L/S.</p> <p>B. LAZ wing-</p> <p>(i) Dhubri Divn.- Double strip plantation on river bund of Brahmaputra River from Jogomaya Ghat to down stream up to New ghat at Dhubri.</p> <p>(ii) Aie-Valley Divn.- Plantation along</p>	NIL	

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
39	Project Elephant	0.00	30.00	300.00		330.00	171.92	Reward to informer, Intelligence gatherin & legal support, Running cost of patrolling vehicles & logistics for protection & anti-depredation measure, Procurement of ammunition for using in anti-depredation activities, Immunization of livestock on the fringe area of ERs for protecting elephants against contagious disease, Drugs for tranquilizing equipments, Implementation of MIKE, Improvement & Dev. of sensitive areas to reduce man-elephant conflict, Ex-gratia for loss of life and property due to elephant depredation, expedite movement of Anti-depredation team for quick action to scare elephants from human habitation & crop field to Reserve/Protected Areas, Raising of Bio-fencing by planting Bhoot Jalakia and lemon plants and other citrus species, Hiring of kunki elephant, Eco-development works in fringe villages of ERs and elephant corridors to reduce biotic pressure on elephant, Monitoring & study visit, training related visits and field visits etc., Veterinary support, Publicity & awarness programmes, Population estimation of wild elephants.	Reward to informer, Intelligence gatherin & legal support, Running cost of patrolling vehicles & logistics for protection & anti-depredation measure, Procurement of ammunition for using in anti-depredation activities, Immunization of livestock on the fringe area of ERs for protecting elephants against contagious disease, Drugs for tranquilizing equipments, Implementation of MIKE, Improvement & Dev. of sensitive areas to reduce man-elephant conflict, Ex-gratia for loss of life and property due to elephant depredation, expedite movement of Anti-depredation team for quick action to scare elephants from human habitation & crop field to Reserve/Protected Areas, Raising of Bio-fencing by planting Bhoot Jalakia and lemon plants and other citrus species, Hiring of kunki elephant, Eco-development works in fringe villages of ERs and elephant corridors to reduce biotic pressure on elephant, Monitoring & study visit, training related visits and field visits etc., Veterinary support, Publicity & awarness programmes, Population estimation of wild elephants.	
40	Management Action Plan Biosphere Reserve Manas & Dibru-Saikhowa	0.00	178.60	107.36	28.60	314.56	89.05	Protection, Infrastructure & Communication, Habitat Management, Eco-development, Research, Monitoring & Training, Organisation & Administration, Anti-depredation measures, Establishing patrolling camps, Procurement of field gear, night vision, boats, arms and ammunition, construction activities, etc.	Protection, Infrastructure & Communication, Habitat Management, Eco-development, Research, Monitoring & Training, Organisation & Administration, Anti-depredation measures, Establishing patrolling camps, Procurement of field gear, night vision, boats, arms and ammunition, construction activities, etc.	
41	Project Tiger	0.00	180.00	1800.00	754.65000	2734.65	2668.47	Construction of Anti-poaching camp, range quarter, boundary wall, wooden country boat, maintenance of arms, camps, wireless, POI, wages for casual works, protection measures, purchase of equipments, Eco-development activities, etc.	Construction of Anti-poaching camp, range quarter, boundary wall, wooden country boat, maintenance of arms, camps, wireless, POI, wages for casual works, protection measures, purchase of equipments, Eco-development activities, etc.	
42	Integrated Development of Wildlife Habitat	0.00	30.00	300.00	12.96	342.96	174.37			
43	National Bamboo Mission	0.00	0.01	0.00	0.00	0.01	0.00			NIL

Sl. No.	Name of the Scheme	Budget	CSS Budget		SD/CF	Total Allocation as per Budget	FOC Issued	Physical Target during 2019-20	Physical Achievement during 2019-20	Remarks
			State Share	Central Share						
1	2	3	4	5	6	7	8	9	10	11
44	CAMPA (CS)	0.00	0.00	0.00	28040.37	28040.37	28040.37	Compensatory Afforestation Works: Site Specific Plantation- 689.56 ha. Aided Natural Regeneration.- 500 ha. Afforestation- 1000 ha. Sal Coppice Management- 100 ha. Apurugiya Brikha plantation-20 ha. Infrastructure: Building- 11 nos.	Compensatory Afforestation Works: Site Specific Plantation- 689.56 ha. Aided Natural Regeneration.- 500 ha. Afforestation- 1000 ha. Sal Coppice Management- 100 ha. Apurugiya Brikha plantation-20 ha. Infrastructure: Building- 11 nos.	
	TOTAL of CSS	0.00	465.61	2977.36	28836.58	32279.55	31144.17			
	TOTAL	12550.28	1625.77	6177.36	32479.85	52833.26	33887.49			

Statement showing the Financial & Physical Progress report under SOPD, CSS & EAP schemes during 2020-21

(₹ in lakh)

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC Issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
A	SOPD Schemes						
1	Social Forestry (General)	186.79	167.70	97.40761	Park (Maint.) -9 nos. Pt. B - Plantation Advance work - 80. Ha. 1st year creation & Maintenance of Plantation - 40 Ha. 1st year creation of Single Planting - 320 nos.	Park (Maint.) -9 nos. Pt. B - Plantation Advance work - 30. Ha. 1st year creation & Maintenance of Plantation - 20 Ha. 1st year creation of Single Planting - 200 nos.	
2	Rehabilitation of Degraded Forests	0.01	0.00	0.00	NIL	NIL	
3	Bio-diversity Board (Salary)	20.34	19.77	19.77	Pay & Allowances of staffs	Pay & Allowances of staffs	
4	Bio-diversity Board (Non-Salary)	47.50	0.00	0.00	Preparation of PBRs, Capacity building workshop at BMC levels, Biodiversity Heritage Site Management, Constitution of BMCs, Publication, Publicity, Office Expenses and any other revenue expenditure.	NIL	
5	Special Rhino Protection Force (Salary)	428.33	319.89	319.89	Salary Component for newly recruited constables at KNP	Salary Component for newly recruited constables at KNP	
6	Raising People's Nurseries/ Plantation of Medicinal & Aromatic Plants	0.01	0.00	0.00	NIL	NIL	
7	Greening of Greater Guwahati	87.03	87.03	19.80677	Single Planting 1000 nos., Improvement & renovation of Medicinal & Aromatic Garden at Chakradeo-2.5 ha., Saraihat	Report pending	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
8	Reducing Man Animal Conflict	992.75	853.51	374.04060	<p>i) Formation of Anti-depredation squads of local villagers and providing logistics to them including hire charge of vehicle.</p> <p>ii) Installation of Electric Fencing in the strategic locations to reduce damage of life and property due to elephant depredation of 100 Km</p> <p>iii) Digging of Elephant proof trenches in different areas of the state of 100 Km.</p> <p>iv) Purchase of search lights for use in Anti-depredation works-100 nos</p> <p>v) Purchase of ammunitions for use in Anti-depredation works</p> <p>vi) Publicity and awareness campaign</p>	Single Planting 1000 nos.	
9	Assam Forest School (Training of Staff) (Re-appropriation required from 07 to 03 head)	190.01	0.00	0.00	<p>Dir., Assam Forest School, Jalukbari - Field visit, Sports & Game, Organizing Examination, Convocation, Office expenditure, Maint. of Water supply, Electricity, Sanitary works, Office compound/ Garden, Cleaning of Drain/Nallah, Maint. of Director residence compound, Hostel compound, Play ground, Repairing of Officers & Staff quarters, Landscaping inside the AFS, Maint. of vehicle, Purchase of Furniture, Signboard, Painting & repairing of old staff quarters, Demolishing of old building, Improvement of road & new</p>	NIL	
10	Forest Research	103.40	0.00	0.00	Wood Balance Study of Assam.	NIL	
11	Forest Publicity	47.50	7.00	2.00	<p>i) Organizing the State Level Functions viz. Vanamahatsava & Wildlife Week, 2020</p> <p>ii) Circle / Division Level functions viz. Vanamahatsava & Wildlife Week, 2020</p> <p>iii) Celebration of World Wetland Day on 2nd February, 2021.</p>	Organizing the State Level Functions Wildlife Week, 2020	

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
12	Development of Forest Village	0.01	0.00	0.00	NIL	NIL	
13	Amenities to Staff and Labour	142.50	98.48411	54.57821	Purchase of Xerox machine ink, Computer cartridge, printers, stationary items, Purchase of furniture, steel rack, stand fan, AC, water purifier, Inverter, almirah, mosquito nets, etc. Repairing of office, toilets, etc.	Purchase of Xerox machine ink, Computer cartridge, printers, stationary items, Purchase of furniture, steel rack, stand fan, AC, water purifier, Inverter, almirah, etc.	
14	Development of National Parks and Wildlife Sanctuaries	95.00	80.42336	19.79819	Procurement of POL, Maint. of Mechanized Boat, Wages of Casual Worker, Office Expenses including Camp, Procurement of Country Boats, Maint. of Patrolling path, Maint. of Camp, Publicity Material & Eco Dev., Repairing Anti-Poaching Camp, Purchase of Camera Traps for capturing the elusive animals in photo and estimating number, Maint. of Vehicles and Vaccination of cattle in fringes villages including coast of vaccination.	Report pending	
15	Development of Other Wildlife Areas	95.00	28.85989	0.00	1. Antipoaching Operation & Rescuing of Wild Animal. 2. Celebration of Wildlife Week & Publicity materials etc. 3. Logistic support to the villages for dealing with the elephant depredation in the villages. 4. Construction of watch towers.	Report pending	
16	Working Plan Organisation	0.01	0.00	0.00	NIL	NIL	

SL No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
17	Forest Protection Force	95.00	86.49	44.99795	<p>Ist. AFFP Bn. - Construction of staff Quarter Basisitha, Guwahati (RCC Ground Floor, 1 No = 4 unit).</p> <p>2nd AFFP Bn. -</p> <p>i) Construction of Gymnasium House with Gyne Equipments at 2nd AFFP H.Q. Seconee, Nagaon.</p> <p>ii) Construction of Quarter attached Kitchen (5 nos.) & construction of 2 seater Latrine & 2 nos. Bathroom at 2nd Assam Forest Protection Force, Seconee, Jakhatabandha in Nagaon District for 19-20.</p> <p>iii) Construction of Assam Type Barrack with kitchen at 2nd AFFP at Secoknee, Jakhatabandha.</p>	<p>Ist. AFFP Bn. - Construction of staff Quarter Basisitha, Guwahati (RCC Ground Floor, 1 No = 4 unit).</p> <p>2nd AFFP Bn. -</p> <p>i) Construction of Gymnasium House with Gyne Equipments at 2nd AFFP H.Q. Seconee, Nagaon.</p> <p>ii) Construction of Quarter attached Kitchen (5 nos.) & construction of 2 seater Latrine & 2 nos. Bathroom at 2nd Assam Forest Protection Force, Seconee, Jakhatabandha in Nagaon District for 19-20.</p> <p>iii) Construction of Assam Type Barrack with kitchen at 2nd AFFP at Secoknee, Jakhatabandha.</p>	
18	Modernization of Assam State Zoo	279.02	253.93905	98.03719	Construction of Giraffe and Zebra enclosures in Assam State Zoo.	Part payment made against the works done by the contractor for Construction of Giraffe and Zebra enclosures in Assam State Zoo.	
19	Rehabilitation of Dadhia & Laikia Village under Dibru-Saikhowa National Park (WL)	0.01	0.00	0.00	NIL	NIL	
20	Communication for General Areas Roads & Bridges	112.10	107.59562	51.17279	Improvement of forest Road -66.5 km. Culvert - 4 nos, Earth filling - 300 Rm & Internal road - 0.40 Km with Drainage system - 0.041.	Report pending	
21	Building for General Areas	95.00	94.43419	58.94746	Construction of Fr-I & Fgd Qtr-5 nos., Repairing & renovation of Qtr. & Office-17 nos., Boundary Gate-I no.	Report pending	
22	Dir. Forest Building	0.01	0.00	0.00	NIL	NIL	
23	Assam Climate Change Management Society	0.01	0.00	0.00	NIL	NIL	
24	Timber Treatment Seasoning Plant	0.01	0.00	0.00	NIL	NIL	
25	Forest School Kajalgaon	234.18	0.00	0.00	DPR, land acquiring and civil for construction of Forest School	NIL	AA received

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
26	Interpretation Centre Cum Museum at Manas & Digboi	1150.00	1150.00	467.10655	Construction of Interpretation Centre Cum Museum at Manas & Digboi	Running bill submitted for construction of Interpretation Centre Cum Museum at Manas & Digboi	
27	Road Side Plantation of National Highways	47.50	0.00	0.00	950 Nos. Single planting along NH	NIL	
28	Assam State Wetland Authority	4.75	4.75	1.35	Purchase of equipments, office items & wages of contractual staffs	Purchase of equipments & office items	
29	Deepor Beel Conservation & Development Society	9.50	9.50	0.00	Purchase of equipments, office items & wages of contractual staffs	NIL	
30	Deployment of Modern Technology & Communication System for Forestry & Wildlife Conservation & Management	95.00	54.05153	0.00	Procurement of surveillance Quardcopter for forest and wildlife management, Procurement of day camera module with thermovision sensor base module for industrial quardcopter integration.	Procurement of surveillance Quardcopter for forest and wildlife management, Procurement of day camera module with thermovision sensor base module for industrial quardcopter integration but payment pending	
31	Air & Water Pollution Control Board	0.01	0.00	0.00	NIL	NIL	
32	Global Green Gathering	47.50	0.00	0.00	Organizing International level seminar for creating mass awarness amongst the people on conservation of forest and wildlife	NIL	
33	Flood Damage Restoration	0.01	0.00	0.00	NIL	NIL	
34	Tribal Sub Plan	100.01	0.00	0.00	Maintenance of TSP parks, block plantation, single plantation, etc.	NIL	
35	Schedule Caste Component Plan	200.01	0.00	0.00	Maintenance of SCCP parks, block plantation, single plantation, etc.	NIL	
36	Animal Rescue Center at Silchar	950.00	0.00	0.00	Preparation of DPR and project design, etc.	NIL	
	Total of SOPD	5855.82	3423.44	1628.91			
B	EAP						
37	EAP- Assam Project on Forest & Bio-diversity Conservation Society (APFBC) (CS)	6356.80	6356.80	2797.80	Conservation of eco-systems, Sustainable forest management, Human-wildlife co-existence, community engagement and institutional strengthening	Report pending	
38	EAP- Assam Project on Forest & Bio-diversity Conservation Society (APFBC) (SS)	1589.20	1589.20	595.56			

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
39	EAP- Capacity Building for Forest Management & Training of Personal (JICA) (CS)	0.01	0.00	0.00	Release of pending State Sharefor making repayment of loan to APFBC Society	Release of pending State Sharefor making repayment of loan to APFBC Society	
40	EAP- Capacity Building for Forest Management & Training of Personal (JICA) (SS)	4.40	4.40	4.40			
	Total of EAP	7950.41	7950.40	3397.76			
C	CS						
38	National Afforestation Programme (CS)	52.00	0.00	0.00	Afforestation programme	NIL	
	National Afforestation Programme (SS)	4.96	0.00	0.00			
39	Forest Fire Prevention & Management (CS)	0.01	0.00	0.00		NIL	
	Forest Fire Prevention & Management (SS)	0.01	0.00	0.00			
40	National River Conservation (CS)	0.01	0.00	0.00		NIL	
	National River Conservation (SS)	0.01	0.00	0.00			
41	Project Elephant (CS)	316.00	0.00	0.00	Reward to informer, Intelligence gatherin & legal support, Running cost of patrolling vehicles & logistics for protection & anti-depredation measure, Procurement of ammunitions for using in anti-depredation activities, Immunization of ivestocks on the fringe area of ERs for protecting elephants against contagious disease, Drugs for tranquilizing equipments, Implementation of MIKE, Improvment & Dev. of sensitive areas to reduced man-elephant conflict, Ex-gratia for loss of life and property due to elephant depredation, expedite movement of Anti-depredation team for quick action to scare elephants from human habitation & crop field to Reserve/Protected Areas, Raising of Bio-fencing by planting Bhoot Jaiakia and lemon plants and other citrus species. Hiring of kunki elephant, Eco-development works in fringe villages of ERs and elephant corridors to reduce biotic pressure on elephant, Monitoring & study. visit. training		
	Project Elephant SCSP (CS)		0.00	0.00			
	Project Elephant (SS)		0.00	0.00			NIL
	Project Elephant SCSP (SS)	30.10	0.00	0.00			

Sl No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks				
1	2	3	4		6	7	8				
42	Management Action Plan Biosphere Reserve Manas & Dibru-Saikhowa (CS)	192.49	0.00	0.00	Protection, Infrastructure & Communication, Habitat Management, Eco-development, Research, Monitoring & Training, Organisation & Administration, Anti-depredation measures, Procurement of Equipments, etc.	Protection, Infrastructure & Communication, Habitat Management, Eco-development, Research, Monitoring & Training, Organisation & Administration, Anti-depredation measures, Procurement of Equipments, etc.					
	Manas		92.77	92.77							
	Dibru-Saikhowa										
	Management Action Plan Biosphere Reserve Manas & Dibru-Saikhowa (SS)	18.28	0.00	0.00							
	Manas		9.277	9.277							
	Dibru-Saikhowa										
	43	Project Tiger (CS)	3486.31	1732.81				1415.51	Establishing patrolling camps, Procurement of field gear, night vision, boats, arms and ammunition, construction activities, etc	Establishing patrolling camps, Procurement of field gear, night vision, boats, arms and ammunition, construction activities, etc	
		Kaziranga		279.18				279.18			
		Orang		418.22				418.22			
		Manas		94.63				94.63			
Nameri											
Project Tiger (SS)		414.48		173.27	141.54						
Kaziranga				27.918	27.918						
Orang				41.822	41.822						
Manas				12.66	12.66						
Nameri											
44	Integrated Development of Wildlife Habitat (CS)	270.09	0.00	0.00	Construction of Anti-poaching camp, range quarter, boundary wall, wooden country boat, maintenance of arms, camps, wireless, POL, wages for casual works, protection measures, purchase of equipments, Eco-development activities, etc.	NIL					
	Integrated Development of Wildlife Habitat (SS)	25.65	0.00	0.00							
45	National Bamboo Mission (CS)	0.01	0.00	0.00							
	National Bamboo Mission (SS)	0.01	0.00	0.00							

Sl. No.	Name of the SOPD Scheme	Total Allocation	Fin. Sanction Amount	FOC issued	Physical Target during 2020-21	Physical Achievement during 2020-21	Remarks
1	2	3	4		6	7	8
46	CAMPA (CS)	25236.33	8834.00	8834.00	Compensatory Afforestation Works: Site Specific Plantation- 196.10 ha. Aided Natural Regeneration.- 730.00 ha. Afforestation- 2145 ha. Sal Coppice Management- 235 ha.	Compensatory Afforestation Works: Site Specific Plantation- 22.22 ha. Aided Natural Regeneration.- 0.00 ha. Afforestation- 0.00 ha. Sal Coppice Management- 0.00 ha.	Govt. moved for surrender of ₹16402.33 lakhs
	Total of CSS	30046.75	11716.56	11367.53			
	Grand Total (A+B+C)	43852.98	23090.39	16394.19			

Areas allotted to different Forest Divisions for Project Site Specific Compensatory Afforestation to be raised during the year 2022-23

Sl No.	Name of User Agency	Name of the Project	Name of Zone	Name of Circle	Name of the Division where forest land diverted	Forest Area Diverted (Area in ha)	Area proposed for Compensatory Afforestation			Final Approval granted by the Central Government letter No.	GPS Co-ordinate			
							Reserve Forest (Area in Ha.)	Non Forest Land (Area in Ha.)	Name of Division			Specific Compensatory Afforestation area as per project proposal	Nos. of Patch	
1	Assam Power Generation Corporation Ltd., Guwahati	Forest diversion proposal for construction of Lower Kopili Hydro Electric Project (120 MW)	The Spl.PCCF, Karbi Anglong, Diphu	Name of Circle	Hamren Division	45.28		45.28	Hamren Division	Mukindur Revenue Village (Langching)	1	8-53/2018FC dated 4.12.2020	25°47'31.10"N 92°46'30.02"E, 25°47'25.63"N 92°46'29.78"E, 25°47'5.28"N 92°45'37.06"E, 25°47'13.86"N 92°45'26.55"E	
					CCF, Dima Hasao District, Haflong	477.766		62.58	Dima Hasao West Division, Haflong	Wayungisa PRF area	7	25°17'15.97"N 93°24'5.59"E, 25°16'40.36"N 93°24'6.45"E, 25°16'44.00"N 93°22'5.33"E, 25°17'12.18"N 93°22'5.73"E		
2					Dima Hasao West Division, Haflong		87.44	86.23	Tortelangso PRF area	Nabdi Daulagupu PRF area			25°41'6.84"N 92°48'44.63"E, 25°40'55.76"N 92°49'10.22"E, 25°40'27.69"N 92°48'53.31"E, 25°40'44.68"N 92°48'20.59"E	
													25°15'57.07"N 92°59'30.93"E, 25°15'49.64"N 93°0'6.32"E, 25°15'21.80"N 92°59'44.87"E, 25°15'29.08"N 92°59'18.75"E	
													25°25'9.97"N 92°51'47.50"E, 25°24'38.88"N 92°51'45.05"E, 25°24'33.04"N 92°51'19.15"E, 25°25'7.81"N 92°51'25.50"E	
													25°6'11.98"N 92°55'20.00"E, 25°5'46.34"N 92°55'12.15"E, 25°5'49.69"N 92°54'43.12"E, 25°6'13.42"N 92°54'41.82"E	
													25°40'26.45"N 92°49'7.14"E, 25°39'55.30"N 92°49'29.85"E, 25°39'39.71"N 92°49'8.37"E, 25°39'56.80"N 92°48'53.29"E, 25°40'12.54"N 92°48'53.56"E	
													25°24'31.63"N 92°51'43.44"E, 25°24'15.92"N 92°51'44.52"E, 25°24'19.11"N 92°51'23.85"E, 25°24'32.49"N 92°51'28.69"E	
													26°8'52.28"N 92°47'27.91"E, 26°8'47.64"N 92°47'27.40"E, 26°8'47.62"N 92°47'20.36"E, 26°8'53.06"N 92°47'22.57"E	
3	The chief Manger, NER-II Transmission Lrd., Itanagar	Diversion of forest land for construction of 400KV D/C Silchar-Missa Transmission line	Addl. PCCF (T) UAZ	CF, NAC	Nagaon Division	1.483		3.00	3	Nagaon Division	Doboka RF	1	3-AS B 052/2019-SHW/1388-1389 dated- 28.10.2021	26°8'52.28"N 92°47'27.91"E, 26°8'47.64"N 92°47'27.40"E, 26°8'47.62"N 92°47'20.36"E, 26°8'53.06"N 92°47'22.57"E
														Total

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Proposal for Annual Plan of Operation (APO) under State CAMPA, Assam for the year 2022-23 (Plantation)

Sl. no	Name of the Division	Afforestation		ANR		Sal Coppice Management		GPS Co-ordinates
		Area in Ha.	Location	Area in Ha.	Location	Area in Ha.	Location	
Upper Assam Zone (UAZ)								
EAC, Jorhat								
1	Dibrugarh Divn.	2	A) Jokai RF P.no.1	5	B) Conservation of Hollong Jokai RF_5 ha.			A) 27°23'23.10"N 94°55'39.90"E, 27°23'20.47"N 94°55'41.27"E, 27°23'17.16"N 94°55'36.23"E, 27°23'20.18"N 94°55'35.11"E
2	Digboi Divn.	150	A) Conservation of Hollong at Digboi RF 25 ha. & B) UDRF west block 100 ha.(Hollong) C) Dalai PRF 25 ha.	250	D) Conservation of Hollong Kotha RF 50 ha. E) UDRF West block 100 ha. F) UDRF East Block 100 ha. P. no. 1 for all ha.			A) 27.37773N 95.604E B) 27.437221N 95.474946E C) 27.310672N 95.767438E D) 27.393525N 95.885E E) 27.424597N 95.589731E F) 27.394040N 95.735198E
3	Doomdooma divn.	5	A) Conservation of Hollong Nalani RF 5 ha. Priority 1	75	B) Conservation of Hollong Dumduma RF & Buridihing RF 50 ha. & 25 ha. Priority 1 for all ha.			27°03'22.59"N 94°26'52.24"E, 27°03'15.99"N 94°27'12.64"E, 27°02'52.43"N 94°26'57.83"E, 27°03'00.64"N 94°26'36.48"E
4	Majuli divn.	50	Jengraimukh P.no.1 (govt. land)					25°50'57.49"N 93°11'31.68"E, 25°50'12.97"N 93°11'38.77"E, 25°50'2.63"N 93°11'47.75"E, 25°49'39.45"N 93°11'41.80"E, 25°49'27.55"N 93°11'22.82"E, 25°49'31.01"N 93°11'1.73"E, 25°50'1.61"N 93°11'18.37"E, 25°49'53.50"N 93°11'3.79"E, 25°49'34.18"N 93°9'47.36"E, 25°50'6.46"N 93°10'22.95"E, 25°50'35.64"N 93°9'35.93"E, 25°50'25.72"N 93°10'58.78"E
NAC, Tezpur								
5	Nagaon South Divn.	500	Lumding RF (in 5 plots. 100 ha. each)					25°50'52.12"N 92°01'11.21"E
Lower Assam Zone (LAZ)								
CAC, Guwahati								
6	Kamrup West Div.	75	A) Mataikhar RF 25 ha. B) Gizang RF Pt-1 25 ha. C) Gizang RF Pt-2 25 ha.					A) 25°55'09.20"N 91°28'35.00"E, 25°55'10.0"N 91°28'42.10"E, 25°54'46.70"N 91°28'47.10"E, 25°54'46.60"N 91°28'39.10"E B) 25°55'09.20"N 91°08'22.50"E, 25°55'06.10"N 91°08'28.60"E C) 25°55'09.30"N 91°08'41.20"E, 25°54'40.70"N 91°08'42.70"E

Sub

Sl. no	Name of the Division	Afforestation		ANR		Sal Coppice Management		GPS Co-ordinates
		Area in Ha.	Location	Area in Ha.	Location	Area in Ha.	Location	
7	Kamrup East Div.	10	Markang Kamarghuli 10 ha.					26°01'40.70"N 91°58'38.19"E, 26°01'43.85"N 91°58'29.35"E, 26°01'38.22"N 91°58'23.76"E, 26°01'34.20"N 91°58'34.94"E
SAC, Sibschar								
8	Karimganj divn.	50	A) Fultoli 25 ha. B) Madhurband 25 ha.					A) 24°29'15.00"N 92°21'38.10"E, 24°29'37.70"N 92°21'27.00"E, 24°29'26.70"N 92°21'13.10"E, 24°29'22.70"N 92°21'20.90"E B) 24°32'32.50"N 92°21'28.80"E, 24°32'21.30"N 92°21'29.40"E, 24°32'34.40"N 92°21'34.40"E, 24°32'29.10"N 92°21'55.20"E, 24°26'35.40"N 92°36'35.30"E, 24°26'24.90"N 92°36'32.50"E, 24°26'41.10"N 92°36'26.90"E, 24°26'31.10"N 92°36'20.40"E
9	Hailakandi Division	50	Malicherra, Inner ine RF, Kukicherra Range 50 ha. P.no.1					
LASF, Bongaigaon								
10	Aie Valley divn.	50	Oudubi Pt-II P. no.1					26°16'7.86"N 90°29'29.45"E, 26°16'17.08"N 90°29'04.78"E, 26°16'39.65"N 90°29'17.27"E, 26°17'2.17"N 90°29'38.10"E, 26°16'24.84"N 90°29'56.21"E
Social Forestry Wing								
LASF, Bongaigaon								
11	SF Goalpara divn.	25	Nolonga 25 ha. P. no. 5					
UASF, Nagaon								
12	Sivasagar SF divn.	30	A) Mokhuwa Chapori 20 ha. P.no.1 B) Desangmukh 10 ha. P.no.3					A) 27°12'16.41"N 94°40'14.55"E, 27°12'9.25"N 94°40'19.80"E, 27°11'54.52"N 94°39'56.96"E, 27°12'0.49"N 94°39'51.33"E B) 27°45'53.84"N 94°32'45.13"E, 27°44'7.59"N 94°32'48.02"E, 27°43'8.80"N 94°32'33.10"E, 27°44'4.30"N 94°32'29.69"E

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Sl. no	Name of the Division	Afforestation		ANR		Sal Coppice Management		GPS Co-ordinates
		Area in Ha.	Location	Area in Ha.	Location	Area in Ha.	Location	
13	Lakhtimpur SF divn.	90	A) Ranga RF 20 ha. P. no.8 B) Bogori Chapori 50 ha. P. no.2 C) Jayrampur RF 20 ha. P. no.6					A) 27°15'32.03"N 93°58'44.22"E, 27°15'55.40"N 93°58'26.90"E, 27°15'52.41"N 93°58'20.06"E, 27°15'38.42"N 93°58'23.05"E B) 27°40'796"N 95°1'792"E, 27°40'615"N 95°2'270"E, 27°40'327"N 95°2'102"E, 27°40'446"N 95°1'677"E C) 27°33'16.49"N 94°26'29.07"E, 27°33'17.73"N 94°26'42.72"E, 27°33'23.18"N 94°26'41.61"E, 27°33'23.07"N 94°26'37.48"E, 27°33'31.69"N 94°26'36.75"E, 27°33'31.80"N 94°26'40.00"E, 27°33'33.21"N 94°26'38.96"E
14	Dibrugarh SF divn.	100	Dibrugarh SF Range 50 ha. P.no.1 Naharkatia SF Range 50 ha. P.no.2					
CSASFC, Ghy								
15	Karinganji SF Divn.	25	Dhukipur P.no.1					24°27'02.70"N 92°22'55.80"E, 24°27'04.50"N 92°22'38.80"E, 24°26'50.00"N 92°22'33.60"E, 24°26'42.30"N 92°22'46.00"E
BTC, Kokrajhar								
16	Parbatijhora divn.	75	A) Panbari 50 ha. B) Alpura 25 ha.					A) 26°10'09.88"N 90°02'45.47"E, 26°10'15.95"N 90°03'05.00"E, 26°09'46.72"N 90°03'29.43"E, 26°09'43.32"N 90°03'07.44"E B) 26°13'49.63"N 90°04'43.95"E, 26°13'59.07"N 90°04'47.33"E, 26°13'35.66"N 90°05'4.80"E, 26°13'35.30"N 90°04'53.40"E, 26°13'49.31"N 90°06'44.65"E, 26°13'57.36"N 90°06'23.55"E, 26°13'57.82"N 90°06'53.21"E, 26°13'49.72"N 90°06'57.01"E
17	Kachugaon Divn.	41	Compartment 2.... 41 ha.					26.754729N 91.258061E, 26.757735N 91.259293E, 26.76557N 91.259055E, 26.767576N 91.258831E, 26.76239N 91.25475E, 26.756975N 91.253638E
18	Baksa Divn.	50	Salbari Range 50 ha.					

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Sl. no	Name of the Division	Afforestation			ANR		Sal Coppice Management		GPS Co-ordinates
		Area in Ha.	Location	Area in Ha.	Location	Area in Ha.	Location		
19	Haltugaon Divn.	50	A) Bangaldoba			25	B) Saharpur	A) 26°19'32.78"N 90°23'35.90"E, 26°19'40.95"N 90°23'30.41"E, 26°19'58.07"N 90°23'52.52"E, 26°19'38.17"N 90°24'9.75"E, 26°19'33.83"N 90°24'5.54"E B) 26°23'37.05"N 90°24'14.53"E, 26°23'23.25"N 90°23'58.64"E, 26°23'15.94"N 90°24'08.31"E, 26°23'28.06"N 90°24'23.16"E, 26°52'17.70"N 91°48'65.00"E, 26°52'12.80"N 91°50'04.77"E, 26°51'54.11"N 91°49'54.52"E, 26°51'53.61"N 91°50'02.53"E, 26°09'59.90"N 89°57'15.78"E, 26°10'04.44"N 89°56'56.48"E, 26°09'36.32"N 89°56'46.58"E, 26°09'36.62"N 89°57'12.89"E	
20	Dhansiri divn.	25	Samrang 25 ha.						
21	SF Kokrajhar divn.	50	Basugaon Modati Plot-I 50 ha. P no.1						
DHAC, Haflong									
22	Southern Affn. divn.	50	Diblong-I					25°36'33.89"N 93°06'04.27"E, 25°36'52.03"N 93°06'03.22"E, 25°37'00.48"N 93°07'01.40"E, 25°36'39.59"N 93°04'59.40"E, 25°38'54.00"N 93°05'11.80"E, 25°38'57.50"N 93°05'04.20"E, 25°39'01.69"N 93°04'59.27"E, 25°39'07.04"N 93°04'58.93"E, 25°39'21.30"N 93°05'10.61"E, 25°39'10.44"N 93°05'32.22"E, 25°38'54.03"N 93°05'21.56"E	
KAAC, Diphu									
24	Karbi Anglong East Divn	50	Silonujan					26°16'10.00"N 93°49'55.20"E, 26°16'23.50"N 93°29'58.90"E, 26°16'18.30"N 93°50'22.50"E, 26°16'11.60"N 93°50'25.90"E, 26°23'59.10"N 93°49'30.80"E, 26°23'55.10"N 93°49'37.70"E, 26°24'06.00"N 93°49'46.90"E, 26°24'01.20"N 93°49'51.10"E, 25°47'30.20"N 93°21'26.10"E, 25°47'36.30"N 93°21'25.20"E, 25°47'35.00"N 93°21'11.10"E, 25°47'30.40"N 93°21'31.70"E, 25°42'06.10"N 92°29'37.90"E, 25°42'20.90"N 92°29'37.90"E, 25°43'17.10"N 92°29'52.10"E, 25°43'20.40"N 92°28'44.00"E, 25°43'11.60"N 92°29'06.60"E, 25°42'25.80"N 92°28'37.80"E, 25°42'44.10"N 92°28'16.80"E	
25	Karbi Anglong West Divn	50	Miyungdisa DCRF						
26	Hamren divn.	50	Tahpat Rongpangbong						

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Sl. No	Name of Division	Location	Particular	Soil Moisture Conservation	
				Estimated amount (in Rs.)	GPS Co-ordinate
Lower Assam Zone					
1	Aie Valley Division	Nakkati RF	SMC works by civil const. works over Bayhar nala and Vegetative wall along the contour of the RF land	2500000	26°23'53.30"N 90°32'02.05"E
2	Goalpara Division	Deosila RF	Preservation and upgradation of water bodies	2000000	25°57'52.90"N 90°59'54.40"E
PCCF WL					
3	Mangaldoi WL	Const. of check dam	Bontapu	1500000	
4	Eastern Assam WI Divn.	Pohumari	Restoration of water (causeway) 25 ft.	800000.00	
		Dighali	Restoration of water (causeway) 25 ft.	800000.00	
Total				7600000.00	

Proposal for Soil Moisture Conservation of Annual Plan of Operation (APO) for the year 2022-23 under State CAMPA, Assam



Proposal for Annual Plan of Operation (APO) for the year 2022-23 under State CAMPA, Assam (Infrastructure Dev.)

Sl. No	Name of Division	Range Office		Range Officer Qtr./ACF Qtr.		Forester-/Dy RO Qtr.		Assam type Barrack		Forest Guard Qtr.		Staff Amenities		Anti Poaching camp	
		Unit	Location	Unit	Location	Unit	Location	Unit	Location	Unit	Location	Activities	Estimated amount	Unit	Location
Upper Assam Zone															
EAC, Jorhat															
1	D.F.O. Golaghat divn.	1	Const. of Range office 26.529067 N 93.981186 E												
NAC, Tezpur															
2	D.F.O. Nagaon South divn.					1									
3	D.F.O. Lakhimpur divn.									1					
Lower Assam Zone															
CAC, Guwahati															
4	Kamrup West Divn	1		1	Singra Range 25°58'37.20"N 91°14'0.40"E					1	Loharghat Range 25°58'40.20"N 91°28'28.50"E				
5	North Kamrup Divn.												Rs.7.5 lakhs		
LASF, Bongaigaon															
6	D.F.O. Aie Valley divn.														
7	D.F.O., Dhubri Div.	1		1	Salkocho P.no.5 26°14'16.38"N 90°20'17.10"E										
SAC, Sitchar															
8	D.F.O. Cachar divn.	1		1	Jirighat Range 24°52'20.00"N 93°03'49.00"E										
9	DFO. Hailakandi Divn.	1		1	Gharmura Range P.no.1 24.275050 N 92.520182 E										

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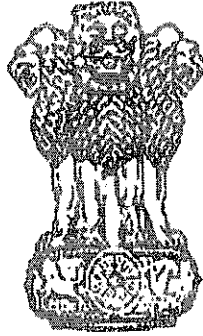
Proposal for Annual Plan of Operation (APO) for the year 2022-23 under State CAMPA, Assam (Infrastructure Dev.)

Sl. No	Name of Division	Range Office		Range Officer Qtr./ACF Qtr.		Forester-I/Dy RO Qtr.		Assam type Barrack		Forest Guard Qtr.		Staff Amenities		Anti Poaching camp	
		Unit	Location	Unit	Location	Unit	Location	Unit	Location	Unit	Location	Activities	Estimated amount	Unit	Location
10	D.F.O. Karimganj divn.	1	Cheragi Range 24°21'16.40"N 92°23'42.40"E			1	Longai Beat 24°19'06.30"N 92°18'25.50"E								
	Social Forestry Wing														
	CSASFC, Ghly														
11	D.F.O. Nalbari SF divn.			1	Rangia SF Range office P.no.2										
	UASFC, Nagaon														
12	D.F.O. Golaghat SF divn.							1	Jonakinajar P.no.2 26°31'46.275"N 93°58'52.7196"E						
	PCCF, WL														
13	DFO Nagaon WL	1	Gorajan Range 26°28'20.37"N 92°42'55.32"E												
	BTC, Kokrajhar														
14	Kachugaon Divn.													1	Raimona National Park
	KAAC, Diphu														
15	Karbi Anglong East														
16	Hamren Divn.														
17	Northern Afforestation Divn divn.					1	Habang Affr. Range (prefabricated)								
	Total	2		2		4		3		3				1	

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GOVT. OF ASSAM



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ASSAM FOREST DEPARTMENT

: ESTIMATE :

Name of Work :- "CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORIED RCC BUILDING ACF/FOREST RANGER 's QUARTER"

Estimated Amount

Rs. 68,51,663.00

Name of Work :-- CONSTRUCTION OF GROUND FLOOR WITH PROVISION
FOR THREE STORIED RCC BUILDING ACF/FOREST
RANGER 's QUARTER

Estimated amount :- Rs. 68,51,663.00

REPORT

This estimate amounting to Rs.68,51,663.00(Rupees Sixty Eight Lakhs Fifty One Thousand Six Hundred Sixty Three) only has been framed to show the probable cost for "Estimate for Forest Range Office Building, Under Naojan range, Golaghat,

The following provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index.

**Name of Work :- CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORIED RCC BUILDING ACF/
FOREST RANGER 's QUARTER**

DETAILED ESTIMATE

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. a) In ordinary soil Footing Tie Beam				
	20 x 1.80 x 1.80 x 2.130 = 138.02 Cum	Cum	148.98	286.85	42,734.76
	4 x 13.50 x 0.45 x 0.23 = 5.59 Cum				
	1 x 3.25 x 0.45 x 0.23 = 0.34 Cum				
	4 x 10.50 x 0.45 x 0.23 = 4.35 Cum				
	1 x 4.20 x 0.45 x 0.23 = 0.43 Cum				
	1 x 2.40 x 0.45 x 0.23 = 0.25 Cum				
	Total = 148.979 Cum				
Item No.2 DSR/2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.				
	10.50 x 13.50 x 0.600 = 85.05 Cum	Cum	100.71	2116.20	213116.79
	Tie-Beams 105.85 x 0.60 x 0.23 = 14.61 Cum				
	Columns 20 x 0.35 x 0.25 x 0.60 = 1.05 Cum				
	Total = 100.707 Cum				
Item No.3 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)				
	Footing 20 x 1.8 x 1.80 x 0.100 = 6.48 Sqm	Sqm	8.91	6833.40	60,916.69
	Tie-Beams 1 x 105.85 x 0.23 x 0.10 = 2.43 Sqm				
	Total = 8.91 Sqm				
Item No.4 DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. (Foundation and Sub-Structure)				
	Footings - 20 x 1.60 x 1.600 x 0.200 = 10.240 Cum				
	Slop Portion - 20 x {(1.60 x 1.60) + (0.35 x 0.25)/2} x 0.25 = 13.020 Cum				
	Columns - 20 x 0.35 x 0.25 x 1.715 = 3.001 Cum	Cum	72.61	10185.05	7,39,524.64
	Columns - 20 x 0.35 x 0.25 x 3.300 = 5.775 Cum				
	Tie-Beam - 1 x 105.850 x 0.450 x 0.23 = 10.955 Cum				
	Lintel - 1 x 103.450 x 0.125 x 0.15 = 1.940 Cum				
	Beams - 4 x 13.500 x 0.350 x 0.23 = 4.347 Cum				
	- 1 x 3.250 x 0.350 x 0.23 = 0.262 Cum				
	- 4 x 10.500 x 0.350 x 0.23 = 3.381 Cum				
	- 1 x 4.200 x 0.350 x 0.23 = 0.338 Cum				
	- 1 x 2.400 x 0.350 x 0.23 = 0.193 Cum				
	Chajjah - 2 x 13.500 x 0.600 x 0.075 = 1.215 Cum				
	- 1 x 10.500 x 0.600 x 0.075 = 0.473 Cum				
	Slab - 1 x 14.700 x 11.700 x 0.100 = 17.199 Cum				
	Stair Case - 5 x 2.400 x 0.075 x 0.300 x 1.0 = 0.270 Cum				
	Total = 72.61 Cum				

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.5 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 1:1.2 1:6 (1cement : 6 coarse sand). (For Brick on flat soling.) Footing 20 x 1.8 x 1.80 = 64.80 Sqm Tie-Beams= 4 x 13.50 x 0.23 = 12.42 Sqm 1 x 3.25 x 0.23 = 0.75 Sqm 4 x 10.50 x 0.23 = 9.68 Sqm 1 x 4.20 x 0.23 = 0.97 Sqm 1 x 2.40 x 0.23 = 0.55 Sqm Floor 1 x 13.50 x 10.50 = 141.75 Sqm Deduct Column 20 x 0.25 x 0.35 = 1.75 Sqm Total = 229.15 Sqm	Sqm	229.15	898.20	2,05,818.49
Item No.6 DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand) 4 x 13.50 x 0.23 x 0.60 = 7.45 Cum 1 x 3.25 x 0.23 x 0.60 = 0.45 Cum 4 x 10.50 x 0.23 x 0.60 = 5.80 Cum 1 x 4.20 x 0.23 x 0.60 = 0.58 Cum Total = 14.28 Cum	Cum	14.28	6882.00	98,248.12
Item No.7 DSR/4.1	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources) 4.00 x 13.50 x 0.230 = 12.420 Sqm. 1.00 x 3.25 x 0.23 = 0.75 Sqm. 4.00 x 10.50 x 0.230 = 9.660 Sqm. 1.00 x 4.20 x 0.23 = 0.97 Sqm. Total = 23.79 Sqm.	Sqm	23.79	370.85	8,823.82
Item No.8 DSR/4.17B	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size (Recycled Aggregate (RA) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth. Footing 20 x 1.8 x 1.80 = 64.80 Sqm Tie-Beams= 4 x 13.50 x 0.23 = 12.42 Sqm 1 x 3.25 x 0.23 = 0.75 Sqm 4 x 10.50 x 0.23 = 9.66 Sqm 1 x 4.20 x 0.23 = 0.97 Sqm 1 x 2.40 x 0.23 = 0.55 Sqm Floor 1 x 13.50 x 10.50 = 141.75 Sqm Deduct Column 20 x 0.25 x 0.35 = 1.75 Sqm Total = 229.15 Sqm	Sqm	229.15	596.60	1,36,708.21

Item No	Description of item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.9 DSR/6.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor level. 6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)				
	4 x 13.50 x 3.30 = 178.20 Sqm				
	1 x 3.25 x 3.30 = 10.73 Sqm				
	3 x 10.50 x 3.30 = 103.95 Sqm				
	1 x 6.60 x 3.30 = 21.78 Sqm				
	1 x 3.90 x 0.90 = 3.51 Sqm				
	1 x 4.20 x 3.30 = 13.86 Sqm	Sqm	281.48	1043.10	2,93,609.70
	Deduct Door, Windows & Ventilators				
	W1 7 x 1.80 x 1.37 = -17.26 Sqm				
	W2 2 x 1.35 x 1.37 = -3.70 Sqm				
	W3 2 x 0.90 x 1.37 = -2.47 Sqm				
	W4 2 x 0.90 x 0.90 = -1.62 Sqm				
	V1 7 x 1.80 x 0.50 = -6.30 Sqm				
	V2 2 x 1.35 x 0.50 = -1.35 Sqm				
	D1 7 x 1.00 x 2.10 = -14.70 Sqm				
	D2 2 x 0.75 x 2.10 = -3.15 Sqm				
	Total = 281.48 Sqm				
Item No.710 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.1 Foundation, footing, bases of Columns etc. for mass concrete				
	Footing - 20 x 4 x 1.80 x 0.20 = 28.80 Sqm	Sqm	165.23	307.95	50,881.04
	Column - 20 x (0.35x2) + (0.25 x 2)x 1.715 = 41.16 Sqm				
	T-Beam - 2 x 105.85 x 0.45 = 95.27 Sqm				
	Total = 165.23 Sqm				
Item No.11 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.9 Arches, domes, vaults, inclined slab up to 6 m span				
	Column - 20 x (0.35x2) + (0.25 x 2)x 3.30 = 79.20 Sqm				
	LINTEL - 4 x 13.50 x 0.15 x 3.00 = 24.300 Sqm				
	1 x 3.25 x 0.15 x 3.00 = 1.463 Sqm				
	3 x 10.50 x 0.15 x 3.00 = 14.175 Sqm				
	1 x 6.60 x 0.15 x 3.00 = 2.970 Sqm				
	1 x 3.90 x 0.15 x 3.00 = 1.755 Sqm				
	1 x 4.20 x 0.15 x 3.00 = 1.890 Sqm	Sqm	400.75	1826.25	7,31,869.69
	Beams 4 x 13.50 x 0.35 x 2.00 = 37.800 Sqm				
	1 x 3.25 x 0.35 x 2.00 = 2.275 Sqm				
	4 x 10.50 x 0.35 x 2.00 = 29.400 Sqm				
	1 x 4.20 x 0.35 x 2.00 = 2.940 Sqm				
	1 x 2.40 x 0.35 x 2.00 = 1.680 Sqm				
	Chajjah - 2 x 13.500 x 0.675 = 18.225 Sqm				
	- 1 x 10.500 x 0.675 = 7.088 Sqm				
	Slab - 1 x 14.700 x 11.700 = 171.990 Sqm				
	Stair Case - 0 x 2.400 x 10.000 = 3.600 Sqm				
	Total = 400.750 Sqm				
Item No.12/DS R/13.2	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand)				
	Wall 1 x 281.48 = 281.480 Sqm				
	Beams 4 x 13.50 x 0.35 x 2.00 = 37.800 Sqm				
	1 x 3.25 x 0.35 x 2.00 = 2.275 Sqm				
	4 x 10.50 x 0.35 x 2.00 = 29.400 Sqm	Sqm	552.88	294.85	1,63,015.93
	1 x 4.20 x 0.35 x 2.00 = 2.940 Sqm				
	1 x 2.40 x 0.35 x 2.00 = 1.680 Sqm				
	Chajjah - 2 x 13.500 x 0.675 = 18.225 Sqm				
	- 1 x 10.500 x 0.675 = 7.088 Sqm				
	Slab - 1 x 14.700 x 11.700 = 171.990 Sqm				
	Total = 552.878 Sqm				

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.13/DSR/13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	Sqm	281.48	421.50	1,18,643.82
Item No.14 DSR/11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	141.75	928.85	1,31,636.14
Item No.15 DSR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.2 Sal wood <u>Windows & Ventilators</u> (1.35 x 2) + (1.37 x 5) x 7 x 0.125 x 0.075 = 0.686 Cum (1.80 x 2) + (1.37 x 4) x 7 x 0.125 x 0.075 = 0.153 Cum (0.90 x 2) + (1.37 x 3) x 2 x 0.125 x 0.075 = 0.111 Cum (0.90 x 2) + (0.90 x 3) x 2 x 0.125 x 0.075 = 0.084 Cum (1.80 x 2) + (0.5 x 5) x 5 x 0.125 x 0.075 = 0.286 Cum (1.35 x 2) + (0.50 x 4) x 2 x 0.125 x 0.075 = 0.038 Cum <u>Doors</u> (1.00 x 1) + (2.1 x 2) x 7 x 0.125 x 0.075 = 0.341 Cum (0.75 x 1) + (2.1 x 2) x 2 x 0.125 x 0.075 = 0.093 Cum Total = 1.842 Cum	Cum	1.84	106720.85	1,96,629.83
Item No. 16/DSR/9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 9.5.1 Second class teak wood 9.5.1.1 35mm thick D1 7 x 0.90 x 2.050 = 12.915 Sqm D2 2 x 0.65 x 2.050 = 2.665 Sqm W1 38 x 0.40 x 1.300 = 19.760 Sqm V1 34 x 0.40 x 0.400 = 5.440 Sqm V2 4 x 0.40 x 0.800 = 1.280 Sqm Total = 42.060 Sqm	Sqm	42.06	3704.45	1,55,809.17
Item No.17/DSR/9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	Kg.	381.99	197.70	75,519.42
Item No.18 DSR/5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.22.1 Mild steel and Medium Tensile steel bars M.S. Rod (Stirrups)	Kg	5736.00	88.95	5,10,217.20
Item No.19 DSR/14.6	Renewing glass panes, with wooden fillets wherever necessary: 14.6.1 Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	22.97	1351.15	31,035.92
Item No.20 DSR/11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	20.94	935.60	19,591.46

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.21 DSR/8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	141.75	1063.45	1,50,744.04
Item No.22 DSR/13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	497.33	123.85	61,594.32
Item No.23 DSR/13.40	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	497.33	162.55	80,840.99
Item No.24 DSR/13.10 9	Finishing walls with water proofing cement paint of required shade : 13.109.1 Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	Sqm	337.03	94.15	31,731.37
Item No.25 DSR/13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : 13.60.1 Two or more coats on new work	Sqm	72.76	137.85	10,029.97
Item No.26 DSR/13.50	Applying priming coat: 13.50.2 With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	116.84	62.95	7,355.08
Item No.27 DSR/13.58	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	116.84	285.80	33,392.87
Item No.28/DSR/13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer	Sqm	116.84	131.45	15,358.62
	Sanitary fittings				
ItemNo.29/ DSR/17.1.3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Each	2.00	6941.30	13,882.60
ItemNo.30/ DSR/17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.2 Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	Each	2.00	8115.55	16,231.10
ItemNo.31/ MR	Providing and fixing vitreous china wall hung water closet (European type) with C.P. bolts, nuts, CI chair, soft closing solid plastic seat cover with lid, CP brass hinges and rubber buffers, connected to existing Concealed Cistern with chrome finish front plate, 32mm dia flush pipe with clamp and rubber adapter joint, CP brass screws and washers and any other accessories complete including cutting and making good the walls and floors wherever required. (JAQUAR CNS-WHT-963SPP,JCS-WHT- 2400S,JCP-CHR-2415)	Each	2.00	16325.00	32,650.00

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
ItemNo.32 /DSR/17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.3 Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	Each	2.00	11256.40	22,512.80
ItemNo.33 /MR	Providing and fixing vitreous china, wash basin with specially fabricated M.S. or CI brackets, 32mm CP brass waste of standard pattern, 32mm dia C.P. brass bottle trap and making connection to the waste pipe in wall with C.P wall flange and rubber adopter complete with required accessories including painting of brackets and cutting and making good the walls wherever required. Under counter (Jaquar make-CNS-WHT-811 + CNS-WHT-303)	Each	3.00	4800.00	14,400.00
ItemNo.34 /DSR/17.1 0.1.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board - 510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6,008.45
ItemNo.35 /DSR/17.3 1	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	Each	2.00	1411.50	2,823.00
ItemNo.36 /DSR/17.3 3	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	2.00	942.15	1,884.30
ItemNo.37 /MR	Providing and fixing Soap dish holder (Jaquar make Model No-ACN-1131N)	Each	4.00	158.55	634.20
Item No. 38/MR	Providing and fixing Towel Rack 600mm long (Jaquar makeModel No-ACN-1181S)	Each	3.00	3150.00	9,450.00
Item No.39/MR	Providing and fixing Towel ring (Jaquar make Model No-ACN-1121BN)	Each	3.00	950.00	2,850.00
Item No.40/MR	Providing and fixing toilet paper holder : CP brass	Each	2.00	680.00	1,360.00
Item No.41/1.3 6.1	Supplying fitting and fixing I.S.I marked or similar approved H.C.I pipe including bolts and nuts and other fittings as required and complete at all levels including below directed and specified. a) In exposed surfaces or in trenches i) 150mm dia	Rm.	20.00	1534.01	30680.20

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.42/1.3 7.1	Supplying fitting and fixing PVC pipes of 6 Kg/cm ² (Supreme/prince) or other ISI approved including joining, fitting and fixing with clamps etc. as necessary complete all levels including and specified a) In exposed surfaces or in trenches i) 150mm dia	Rm.	10.00	1275.63	12756.30
Item No.43/1.4 5	Supplying fitting and fixing Kitchen chimney including water proof ply board, plam sheet, decorative prelaminated sheet,nail fevicol, dendrite wooden beading etc. as required.	Each	1.00	30703.92	30,703.92
Item No.44/1.4 6	Providing fitting and fixing 450mm dia 90mm thick C.I. Man hole cover and frame of 58 Kg. weight complete as directed and specified.	Each	1.00	4097.75	4,097.75
Total cost of the Civil Works =					45,78,322.71
Total Cost for Toilet & Sanitary Work = Rs.					4,28,805.97
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					50,000.00
Total Cost for Internal & Extrernal Electrification add 10% = Rs.					4,57,832.27
Total Cost =Rs.					56,62,531.15
Cost Index 21% =					11,89,131.54
Grand Total =					68,51,662.70
Say = Rs.					68,51,663.00

(Rupees Sixty Eight Lakhs Fifty One Thousand Six Hundred Sixty Three) Only

Checked
[Signature]

: Estimate of Septic Tank and Soak Pit :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05
5.00		BRICK WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	1013.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER :				
		Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70
TOTAL=Rs.						97570.20

Engineer in Charge,
Jalilbari, State of
Kerala

: Calculation Sheet :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
Total							14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
Total							0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
Total:							5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
Total:							3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
Total:							1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
Total:							1.38
5.00	SHUTTERING :						
	ii)Scum Boar	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
Total:							3.24
6.00	PLASTERING :						

6.01	i)Long Wall	Sqm.	3.00		1.6	2	9.60
	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	Top Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qty in qti.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

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: Estimate of Toilet Block with Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete				
		All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	5.28	42220.25
		All works above plinth level to all level.				
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10080.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK				
		Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineerin- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES				
		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB				
		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	123.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) ;				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% wth 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12
TOTAL=						428805.97

: Calculation Sheet :

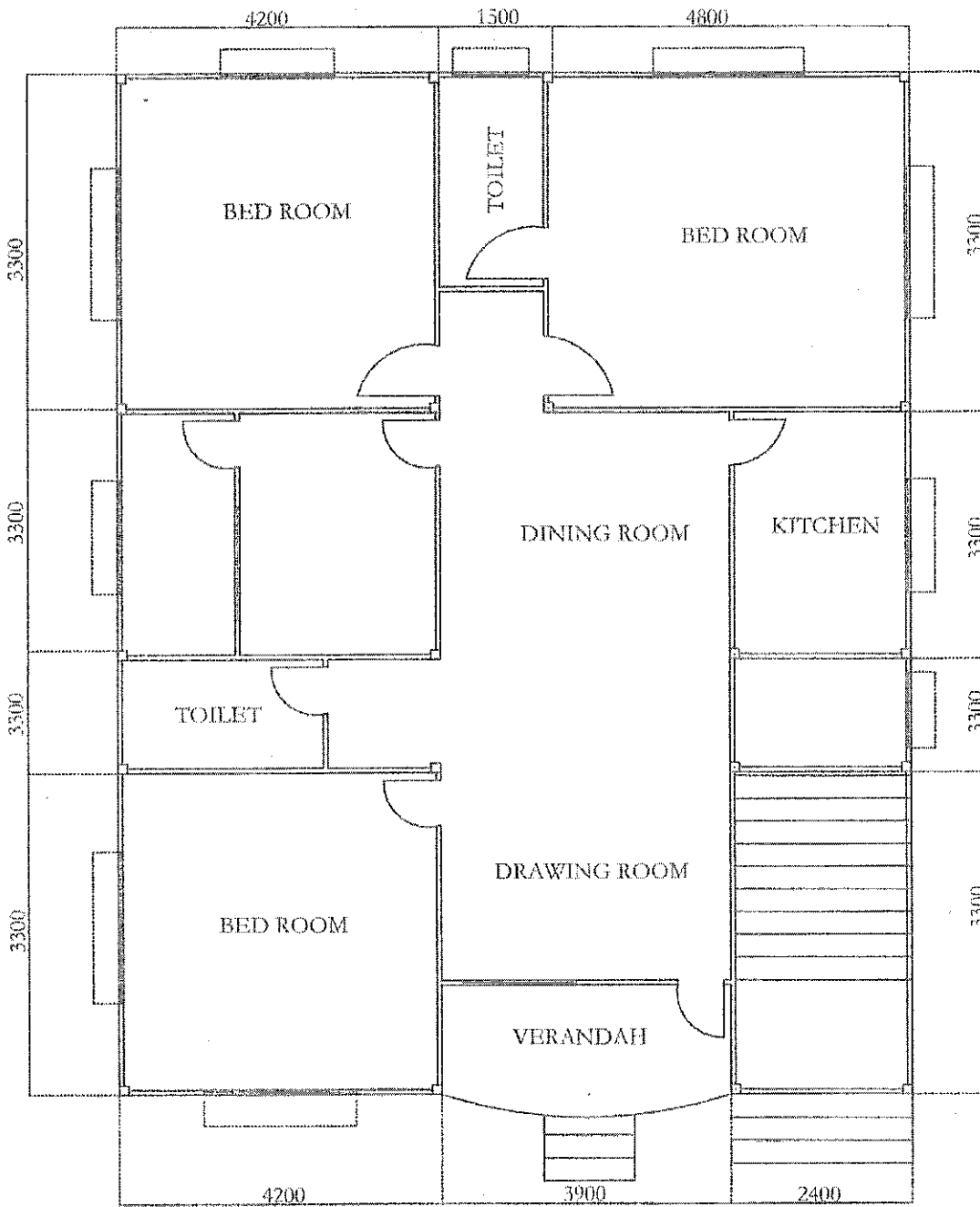
Sl.No.	Description of work	Unit	Length	Breadth	Height	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	11	0.30	0.30	1.00	0.99
						Total =	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total=	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total=	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total=	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total=	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total=	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total=	1.24
						Total=	5.28
3.02	RCC WORK FOR SUPPER						
	STRUCTURE						
	FOR COLUMNS						
	from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total=	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total=	3.30
5.00	SHUTTERING WORKS						
5.01	FOR SUBSTRUCTURE						

	For PCC						
	F1	Sqm	4.80		0.08	6.00	2.16
							2.16
	for footing						
	F1	Sqm	4.00		0.18	6.00	4.20
							4.20
	Bases of columns						
	C1	Sqm	1.10		1.25	4.00	5.50
	C2	Sqm	1.20		1.45	2.00	3.48
						Sub Total=	8.98
						Total=	15.34
5.02	FOR COLUMNS for ground floor						
	C1	Sqm	1.10		3.30	4.00	14.51
	C2	Sqm	1.20		3.30	2.00	7.92
						Sub Total=	22.43
5.04	FOR TIE BEAM						
		Sqm	11.00	0.45		2.00	9.90
						Total=	9.90
5.05	FOR SLAB						
	1st floor Slab	SQM	2.40	1.80		1.00	4.32
						TOTAL=	4.32
6.00	BRICK WORKS						
6.01	FLAT BRICK SOILING						
	F1	Sqm	1.20	1.00		6.00	7.20
						Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00
						Sub Total=	38.60
						Total=	45.80
6.02	FULL BRICK WORK FOR SUB STRUCTURE	cum	11.00	0.50	0.60	1.00	3.30
						Total=	3.30
6.03	HALF BRICK WORK						
		Sqm	11.00		3.30	1.00	36.30
						Total=	36.30
7.00	REINFORCEMENT						
	FOR FOOTING						
	F1						
	10#	KG	1.80	13.00	0.62	6.00	86.58
	10#	KG	1.80	13.00	0.62	6.00	86.58
	FOR COLUMNS						
	C1						
	16#	KG	3.80	8.00	1.58	6.00	287.95
	8#	KG	0.79	27.00	0.39	4.00	33.46
	FOR TIE BEAM						
	16#	KG	11.00	8.00	0.89	1.00	78.32

	8#	KG	1.00	88.00	0.39	1.00	34.73
						TOTAL=	607.62
8.00	FLOORING						
8.01	Floor tile	sqm	3.50	2.00		2.00	14.00
						Total=	14.00
8.02	Wall tile	sqm	11.00		2.10	1.00	23.10
						Total=	23.10
8.03	TUNCH BRICK	sqm	3.10		3.30	2.00	20.46
						Total=	20.46
9.00	PLASTERING						
9.01	10MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
10.00	WALL PUTTY						
	OVER 10MM THICK PLASTERING	Sqm	22.00		3.30	2.00	145.20
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	128.82
	OVER 15MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
						TOTAL=	185.04
11.00	PAINTING						
11.01	INSIDE PAINTING:	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
11.02	OUT SIDE PAINTING:						
	FOR WALLS	Sqm	11.00	3.30	1.00	2.00	72.60
		Sqm	-2.10		0.90	2.00	-3.78
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						TOTAL=	63.78

11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78

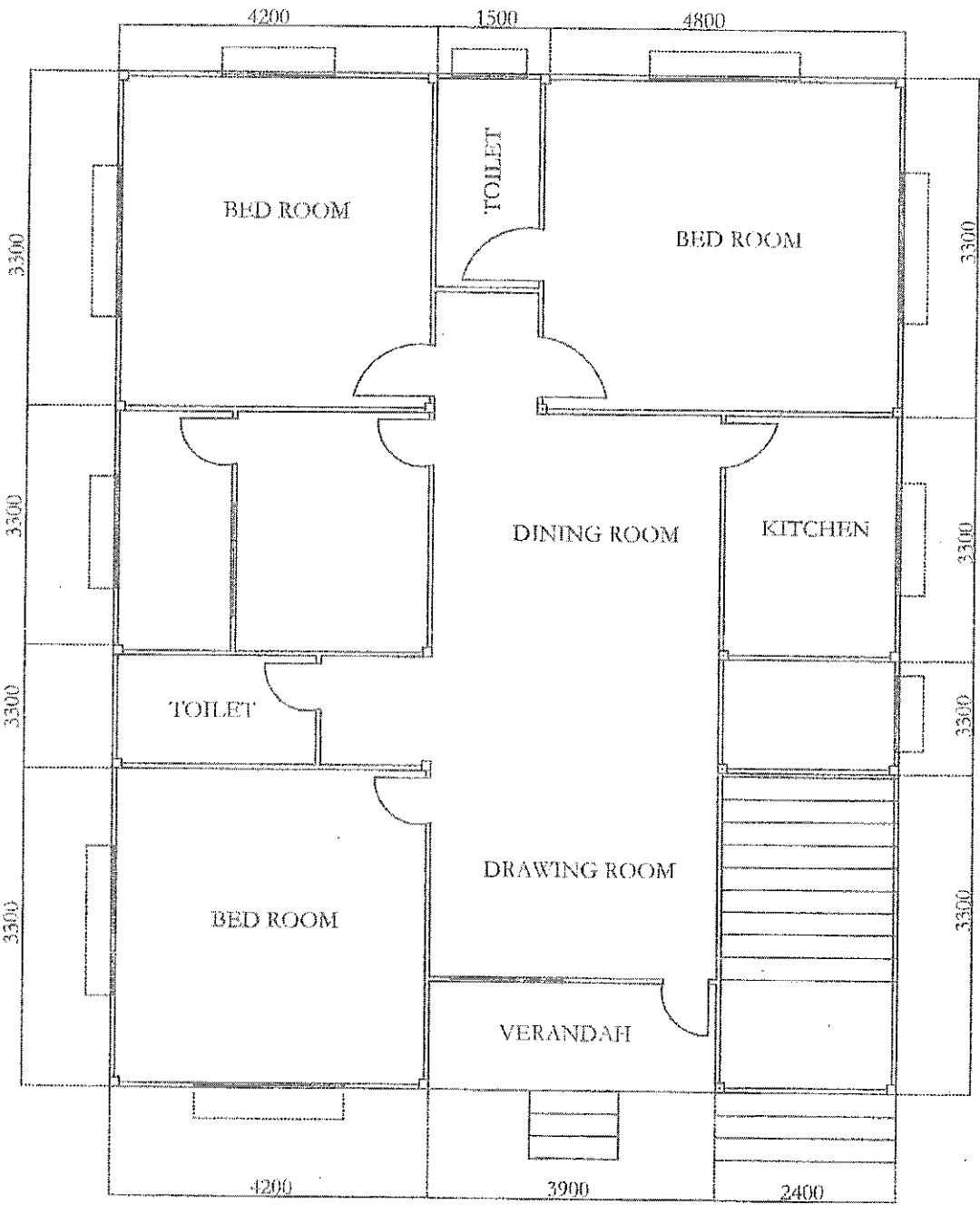
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GROUND FLOOR PLAN

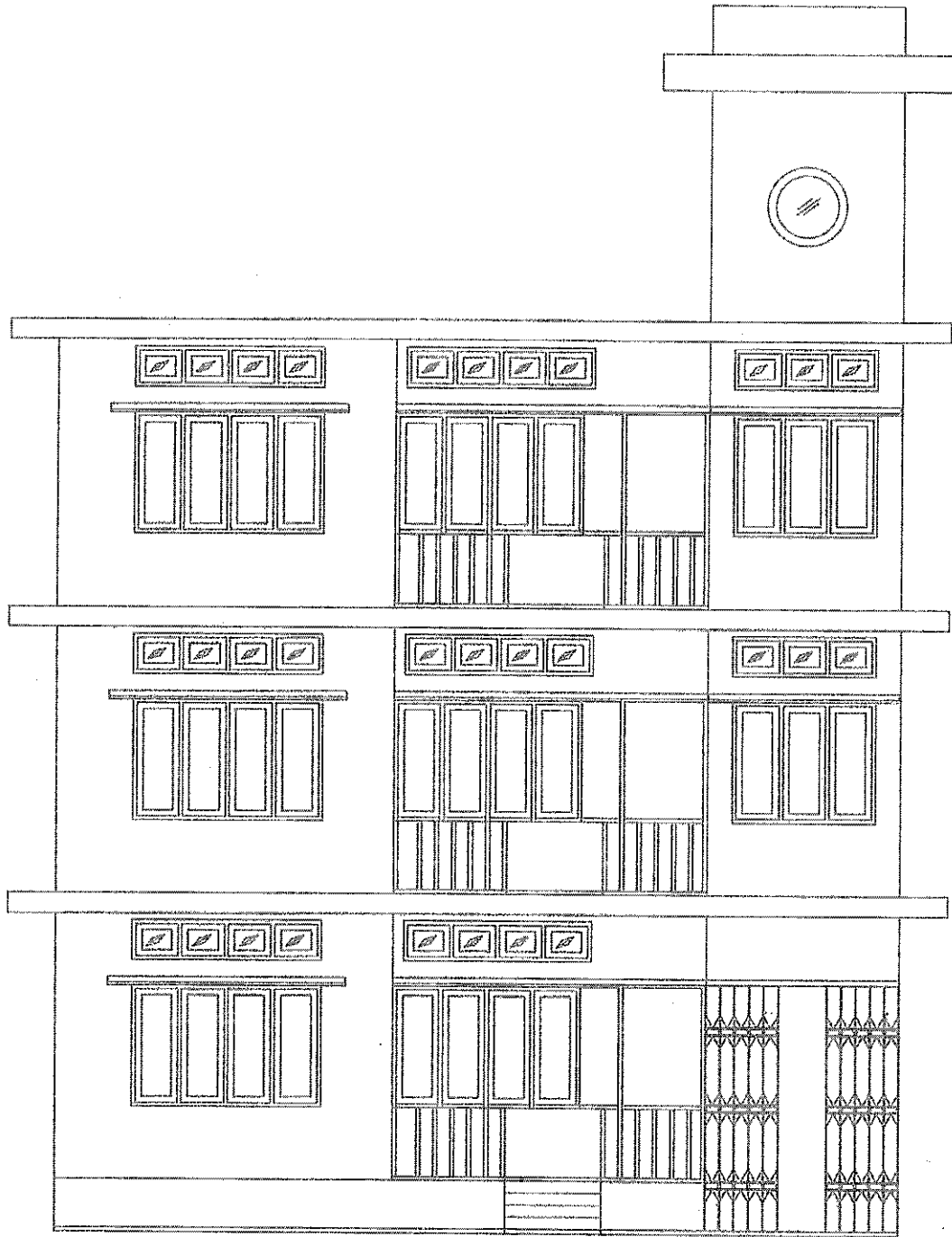
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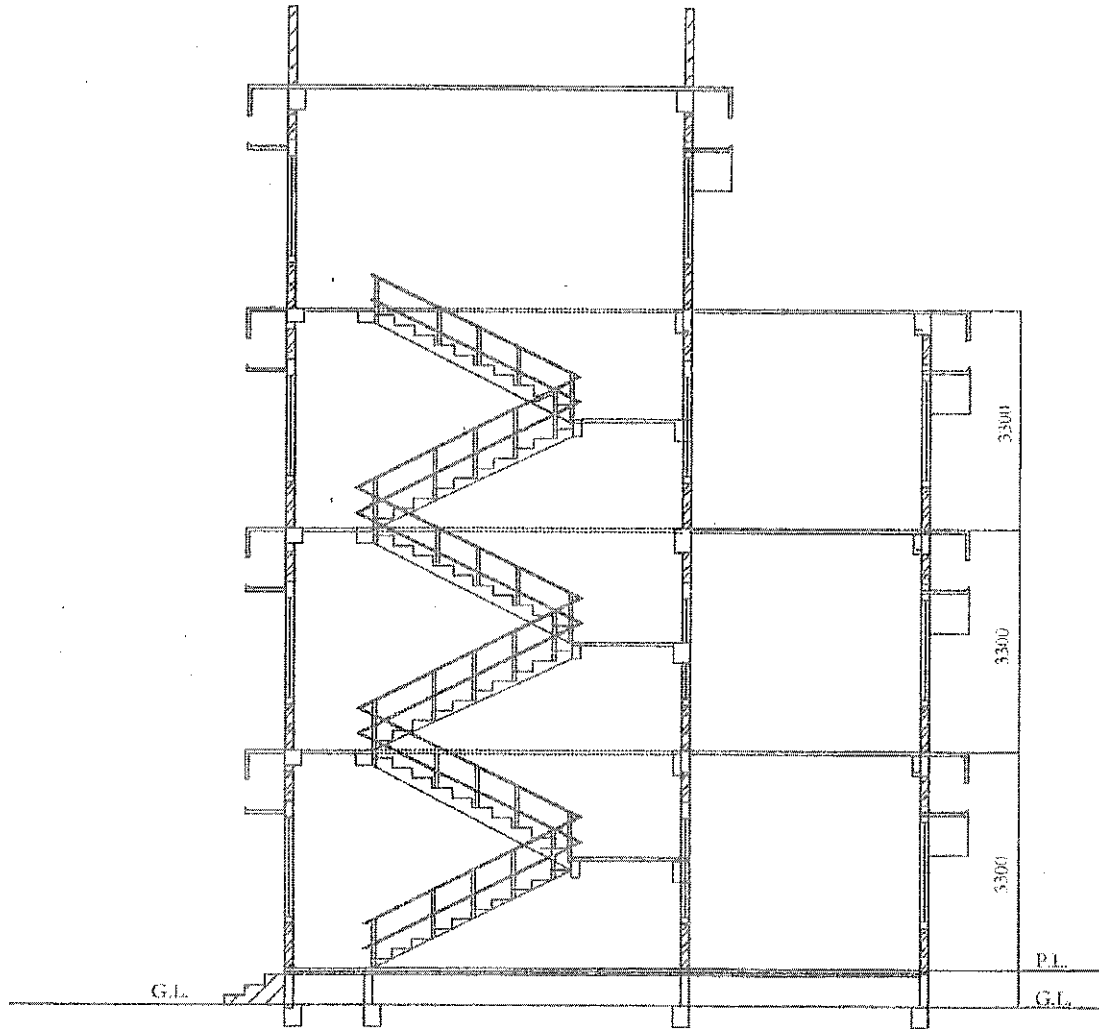
1ST & 2ND FLOOR PLAN
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FRONT ELEVATION
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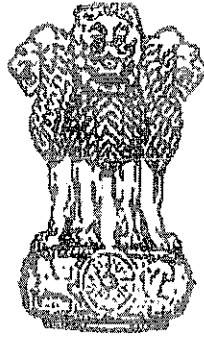
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W. O. K.

GOVT. OF ASSAM



सत्यमेव जयते

ASSAM FOREST DEPARTMENT

ESTIMATE

Name of work :- "Construction of Forest Range Office Building."

Estimated Amount

Rs. 49,82,107.00

Name of Scheme :- "Construction of Forest Range Office Building"

Estimated amount :- Rs. 49,82,107.00

REPORT

This estimate amounting to Rs.49,82,107.00(Rupees Forty Nine Lakhs Eighty Two Thousand One Hundred Seven) only has been framed to show the probable cost for "Construction for Forest Range Office Building"

The following provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index.

Name of Work :- "Construction of Forest Range Office Building"
DETAILED ESTIMATE

Item No	Description of Item	Unit	Gnty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. Qty : 18 x 0.90 x 0.90 x 0.90 = 13.12 Cum 1 x 0.25 x 0.25 x 42.70 = 2.67 Cum 1 x 0.25 x 0.25 x 42.50 = 2.66 Cum Total = 18.453 Cum	Cum	18.45	286.85	5,293.31
Item No.2 DSR/2.2 7	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. Qty : 1 x 0.75 x 4.60 x 5.40 = 18.63 Cum 1 x 0.75 x 4.00 x 4.60 = 13.80 Cum 1 x 0.75 x 3.20 x 4.00 = 9.60 Cum 1 x 0.75 x 3.20 x 2.00 = 4.80 Cum 1 x 0.75 x 4.00 x 2.10 = 6.30 Cum 1 x 0.75 x 7.30 x 4.40 = 24.09 Cum 1 x 0.75 x 4.93 x 0.80 = 2.96 Cum 1 x 0.75 x 2.10 x 2.40 = 3.78 Cum 1 x 0.75 x 2.10 x 2.00 = 3.15 Cum 1 x 0.75 x 9.40 x 1.50 = 10.58 Cum Total = 97.683 Cum	Cum	97.68	2116.20	206716.76
Item No.3 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:3 (1 cement : 3 coarse sand). (For Brick on flat soling.) Qty : 1 x 130.2 x 1.00 = 130.24 Sqm 18 x 0.90 x 0.90 = 14.58 Sqm Tie 1 x 0.30 x 85.30 = 25.59 Sqm Total = 170.41 Sqm	Sqm	170.41	898.20	1,53,062.26
Item No.4 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) Qty : 1 x 18.0 x 0.75 x 0.810 = 10.94 Sqm 1 x 1.00 x 0.25 x 42.70 = 10.68 Sqm 1 x 1.00 x 0.25 x 42.60 = 10.65 Sqm Total = 32.26 Sqm	Sqm	32.26	6833.40	2,20,445.48
Item No.5 DSR/5.2 2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.2.2.1 Mild steel and Medium Tensile steel bars Footing 10@ @ 125c/c - 18 x 10 x 0.85 x 0.62 = 94.86 Kg Columns 12@, 4Nos - 18 x 4 x 3.30 x 0.89 = 211.46 Kg Tie Beam 12@, 4 Nos. - 1 x 4 x 42.70 x 0.89 = 152.01 Kg - 1 x 4 x 42.60 x 0.89 = 151.66 Kg LINTEL - 1 x 4 x 37.00 x 0.62 = 91.76 Kg - 1 x 4 x 29.20 x 0.62 = 72.42 Kg Total = 774.17 Kg Add 10% for Wastage = 77.42 Kg Gr. Total = 851.58 Kg	Kg	851.58	88.95	75,748.47

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
<u>Item No.6</u> DSR/5.2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.2.2.1 Mild steel and Medium Tensile steel bars				
2	M.S. Rod (Stirrups)				
	Column 8 ϕ @ 150c/c - 1 x 36 x 0.95 x 0.39 = 13.338 Kg	Kg	56.24	88.95	5,002.72
	Tie Beam 8 ϕ ,150c/c - 1 x 102 x 0.95 x 0.39 = 37.791 Kg				
	Total = 51.129 Kg				
	Add 10%for Wastage = 5.11 Kg				
	Gr. Total = 56.24 Kg				
<u>Item No.7</u> DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.1 Foundation, footing, bases of Columns etc. for mass concrete				
	Footing - 18 x 4 x 0.75 x 0.15 = 8.10 Sqm	Sqm	50.75	307.95	15,628.46
	T-Beam - 1 x 2 x 42.70 x 0.25 = 21.35 Sqm				
	1 x 2 x 42.60 x 0.25 = 21.30 Sqm				
	Total = 50.75 Sqm				
<u>Item No.8</u> DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.9 Arches, domes, vaults, inclined slab up to 6 m span				
	Column - 18 x 4 x 3.30 x 0.15 = 35.640 Sqm	Sqm	55.50	1826.25	1,01,356.88
	LINTEL - 1 x 2 x 37.00 x 0.15 = 11.100 Sqm				
	1 x 2 x 29.20 x 0.15 = 8.760 Sqm				
	Total = 55.500 Sqm				
<u>Item No.9</u> DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. (Foundation and Sub-Structure)				
	Footings - 18 x 0.75 x 0.750 x 0.150 = 1.519 Cum	Cum	8.77	10185.05	89,345.80
	Slop Portion - 18 x 2/8(0.56+ 0.0625 + 0.56 x 0.0625) = 0.741 Cum				
	Columns - 18 x 0.25 x 0.25 x 1.05 = 1.181 Cum				
	Tie-Beams - 1 x 0.250 x 0.250 x 42.70 = 2.689 Cum				
	Tie-Beams - 1 x 0.250 x 0.250 x 42.60 = 2.663 Cum				
	Total = 8.77 Cum				
<u>Item No.10</u> DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. (Super Structure)				
	Columns - 18 x 0.15 x 0.15 x 3.60 = 1.458 Cum	Cum	2.948	10185.05	30,020.43
	Tie-Beams - 1 x 0.150 x 0.150 x 37.00 = 0.833 Cum				
	Tie-Beams - 1 x 0.150 x 0.150 x 29.20 = 0.657 Cum				
	Total = 2.948 Cum				
<u>Item No.11</u> DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand)				
	1 x 42.70 x 0.75 x 0.25 = 8.01 Cum	Cum	15.99	6882.00	1,10,068.99
	1 x 42.60 x 0.75 x 0.25 = 7.99 Cum				
	Total = 15.99 Cum				

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.12 DSR/6.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor level. 6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand)	Sqm	227.57	1043.10	2,37,373.05
	1 x 3.30 x 42.70 = 140.91 Sqm				
	1 x 3.30 x 42.60 = 140.58 Sqm				
	D1 7 x 1.05 x 2.10 = -15.44 Sqm				
	D2 1 x 0.90 x 2.10 = -1.89 Sqm				
	D3 2 x 0.75 x 2.10 = -3.15 Sqm				
	W1 6 x 2.10 x 1.50 = -18.90 Sqm				
	W2 1 x 1.50 x 1.50 = -2.25 Sqm				
	W3 2 x 1.50 x 0.75 = -2.25 Sqm				
	V1 6 x 2.10 x 0.50 = -6.30 Sqm				
	V2 5 x 1.50 x 0.50 = -3.75 Sqm				
	Total = 227.57 Sqm				
Item No.13 DSR/4.1	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Cum	11.33	370.85	4,202.66
	1.00 x 75.55 x 0.15 = 11.33 Cum				
	Total = 11.33 Cum				
Item No.14 DSR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.2 Sal wood	Cum	0.54	106720.85	57,429.16
	D1 7 x 5.40 x 0.100 x 0.125 = 0.473 Cum				
	D2 1 x 5.25 x 0.100 x 0.125 = 0.066 Cum				
	Total = 0.538 Cum				
Item No. 15/DSR/ 9.117	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance ± 1 mm), with wall thickness 2.0 mm (± 0.2 mm), corners of the door frame to be jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm (± 0.1 mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer-in-charge. 9.117.1 Extruded section profile size 48x40 mm	Rm.	10.20	232.55	2,372.01
	D3 2.00 x 5.10 = 10.20 Rm.				
	Total = 10.20 Rm.				
No.18/DS	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 9.5.1 Second class teak wood 9.5.1.1 35mm thick	Sqm	16.77	3704.45	62,123.63
	D1 7 x 0.95 x 1.950 = 12.968 Sqm				
	D2 1 x 0.75 x 1.950 = 1.463 Sqm				
	D3 2 x 0.60 x 1.950 = 2.340 Sqm				
	Total = 16.770 Sqm				

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No. 17/DSR/ 9.120	<p>Providing and fixing factory made panel PVC door shutter consisting of frame made out of M.S. tubes of 19 gauge thickness and size of 19 mm x 19 mm for styles and 15x15 mm for top & bottom rails. M.S. frame shall have a coat of steel primers of approved make and manufacture. M.S. frame covered with 5 mm thick heat moulded PVC 'C' channel of size 30 mm thickness, 70 mm width out of which 50 mm shall be flat and 20 mm shall be tapered in 45 degree angle on both side forming styles and 5 mm thick, 95 mm wide PVC sheet out of which 75mm shall be flat and 20 mm shall be tapered in 45 degree on the inner side to form top and bottom rail and 115 mm wide PVC sheet out of which 75 mm shall be flat and 20 mm shall be tapered on both sides to form lock rail. Top, bottom and lock rails shall be provided both side of the panel. 10 mm (5 mm x 2) thick, 20 mm wide cross PVC sheet be provided as gap insert for top rail & bottom rail, paneling of 5 mm thick both side PVC sheet to be fitted in the M.S. frame welded/ sealed to the styles & rails with 7 mm (5 mm+2 mm) thick x 15 mm wide PVC sheet beading. on inner side, and joined together with solvent cement adhesive. An additional 5 mm thick PVC strip of 20 mm width is to be stuck on the interior side of the 'C' Channel using PVC solvent adhesive etc. complete as per direction of Engineer-in-charge, manufacturer's specification & drawing.</p> <p>9.120.1 30 mm thick plain PVC door shutters</p> <p style="text-align: right;">D3 2 X 0.70 x 2.05 = 2.87 Sqm Total = 2.87 Sqm</p>	Sqm	2.87	2455.10	7,046.14
ItemNo.1 8/DSR/2 1.1	<p>Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleal angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :</p> <p>21.1.1 For fixed portion</p> <p>21.1.1.1 Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)</p> <p style="text-align: right;">W1 6 x 2.10 x 1.50 = 18.90 Sqm W2 1 x 1.50 x 1.50 = 2.25 Sqm W3 2 x 1.50 x 0.75 = 2.25 Sqm V1 6 x 2.10 x 0.50 = 6.30 Sqm V2 5 x 1.50 x 0.50 = 3.75 Sqm Total = 33.45 Sqm</p> <p>considering 15kg/sqm 501.75 Kg.</p>	Kg	501.75	433.95	2,17,734.41

Item No	Description of item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No. 19/DSR/ 9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : 9.74.1 250x10 mm	Each	58.00	374.35	21,712.30
Item No. 20/DSR/ 9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete : 9.66.1 125mm	Each	33.00	35.20	1,161.60
Item No.21/D SR/13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand) Quantity same as item No.12 = (227.565 x 2)=455.130 Sqm.	Sqm	455.13	339.70	1,54,607.66
Item No.22/D SR/13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer Quantity same as item No.20	Sqm	455.13	131.45	59,826.84
Item No.23/D SR/13.61	Painting with synthetic enamel paint of approved brand and manufacture to give an even shade : 13.61.1 Two or more coats on new work Quantity same as item No.20	Sqm	455.13	64.45	29,333.13
Item No.24/D SR/12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/m ² 1 x 1.00 x 13.60 x 12.30 = 167.280 Sqm 1 x 1.00 x 5.000 x 2.600 = 13.000 Sqm Total = 180.280 Sqm	Sqm	180.28	978.00	1,76,313.84
Item No.25/D SR/12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 12.4.2 0.63 mm thick with zinc coating not less than 275 gm/m ² 1.000 x 28.00 = 28.000 Rm. Total = 28.000 Rm.	Rm.	28.00	750.65	21,023.80
Item No.26/D SR/10.16	10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 10.16.1 Hot finished welded type tubes . 2 x 5.00 x 7.20 x 4.05 = 291.600 Kg. 1 x 5.00 x 2.700 x 4.05 = 54.675 Kg. 1 x 5.00 x 12.50 x 4.05 = 253.125 Kg. 2 x 5.00 x 13.55 x 4.05 = 548.775 Kg. 2 x 5.00 x 1.50 x 4.05 = 60.750 Kg. 2 x 5.00 x 1.000 x 4.05 = 40.500 Kg. 2 x 5.00 x 0.80 x 4.05 = 32.400 Kg. 2 x 5.00 x 0.450 x 4.05 = 18.225 Kg. 2 x 5.00 x 2.40 x 4.05 = 97.200 Kg. 2 x 5.00 x 1.700 x 4.05 = 68.850 Kg. 2 x 5.00 x 1.20 x 4.05 = 48.600 Kg. 2 x 5.00 x 0.750 x 4.05 = 30.375 Kg. Total = 1545.08 Kg.	Kg	1545.08	154.90	239332.12
Item No.27/S OR/9.3.	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc. 9.3.1 Sal wood 30 x 0.05 x 0.075 x 12 = 1.35 Cum	Cum	1.35	97078.35	1,31,055.77

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.28/D SR/12.58	<p>Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge.</p> <p>12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.</p>	Sqm	127.88	1851.50	2,36,789.82
	<p>1 x 11.60 x 10.30 = 119.48 Sqm</p> <p>1 x 4.00 x 2.10 = 8.40 Sqm</p> <p>127.88 Sqm</p>				
Item No.29/D SR/9.48	<p>Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete.</p> <p>9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.</p> <p>W1 6 x 2.10 x 1.500 x 25.00 = 472.500 Kg.</p> <p>W2 1 x 1.50 x 1.50 x 22.00 = 49.500 Kg.</p> <p>W2 2 x 1.50 x 0.750 x 22.00 = 49.500 Kg.</p> <p>V1 6 x 2.10 x 0.50 x 12.00 = 75.600 Kg.</p> <p>V2 5 x 1.50 x 0.500 x 12.00 = 45.000 Kg.</p> <p>Total = 692.10 Kg.</p>	Kg.	692.10	197.70	1,36,828.17
Item No. 30/DSR/ 11.41A	<p>Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently and easily.</p> <p>11.41A.3 Glazed Vitrified tiles Matt/Antiskid finish of size</p> <p>11.41A.3.1 Size of Tile 600 x 600 mm</p>	Sqm	153.54	1311.05	2,01,303.86
	<p>1 x 4.80 x 5.40 = 25.92 Sqm</p> <p>2 x 4.20 x 4.60 = 38.64 Sqm</p> <p>1 x 3.20 x 4.00 = 12.80 Sqm</p> <p>1 x 3.30 x 2.00 = 6.60 Sqm</p> <p>1 x 4.00 x 2.10 = 8.40 Sqm</p> <p>1 x 7.50 x 4.40 = 33.00 Sqm</p> <p>1 x 4.93 x 0.80 = 3.94 Sqm</p> <p>1 x 9.60 x 1.50 = 14.40 Sqm</p> <p>1 x 2.10 x 2.40 = 5.04 Sqm</p> <p>1 x 2.40 x 2.00 = 4.80 Sqm</p> <p>Total = 153.544 Sqm</p>				

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No. 31/4.17	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	27.74	681.65	18,908.97
	$1 \times 36.50 \times 0.76 = 27.74$ Sqm				
Total cost of the Civil Works =					30,29,148.51
Total Cost for Toilet & Sanitary Work = Rs.					5,68,101.92
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					1,00,000.00
Total Cost for Internal Electrification add 9% = Rs.					2,72,623.37
Total Cost =Rs.					41,17,444.00
21% Cost Index =					8,64,663.24
Grand Total =					49,82,107.24
Say = Rs.					49,82,107.00

(Rupees Forty Nine Lakhs Eighty Two Thousand One Hundred Seven),Only

Chellappa
[Signature]

Estimate of Septic Tank and Soak Pit

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete: All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.00		BRICK WORK				
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER :				
		Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70

TOTAL=Rs. 97570.20

: CALCULATION SHEET :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
Total							14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
Total							0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
Total:							5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
Total:							3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
Total:							1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
Total:							1.38
5.00	SHUTTERING :						
	ii)Scum Board	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
Total:							3.24
6.00	PLASTERING :						

	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	Top Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qtyi in qti.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

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: Estimate of Toilet Block with Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum All works above plinth level to all level.	cum	7997.30	5.28	42220.25
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10080.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK				
		Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB				
		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	123.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood):	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 : 2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54
18.00		SANITARY:				
18.01	17.70	Wash Basin				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3392.85	2.00	6785.70
18.02	17.72	Towel Ring				
		Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	204.70	2.00	409.40
18.03	18.65	Soap Dish				
		Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	96.75	2.00	193.50
18.04	17.32	Mirror				
		Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.1	Circular shape 450 mm dia	each	1248.60	2.00	2497.20
18.05	18.56	Pillar Cock				
		Providing and fixing PTMT pillar cock of approved quality and colour.				
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	180.80	2.00	361.60
18.06	18.15	Bib Cock				
		Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore	each	303.85	4.00	1215.40
18.07	18.58	GRATING				
		Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1	Circular type				
	18.58.1.1	100 mm nominal dia	each	33.20	12.00	398.40
18.08		Stop Cock				
	18.63	Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	136.60	12.00	1639.20
18.09	17.2	EUROPEAN TYPE WATER CLOSET				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	5540.55	1.00	5540.55
18.10	17.1	INDIAN TYPE WATER CLOSET				
		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	5781.35	1.00	5781.35
18.11		URINALS				
		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	18546.45	2.00	37092.90
18.12	18.2	Piping				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing Polyethelene-Aluminium-Polyethelene PE-ALPE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
		Concealed work, including cutting chases and making good the wall etc.				
18.12(a)	18.2.1	1216 (16 mm OD) pipe metre	RM	513.75	50.00	25687.50
18.13		CPVC PIPES				
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
18.13(a)	18.8.2	20 mm nominal outer dia Pipes metre	RM	513.75	10.00	5137.50
18.13(b)	18.8.3	25 mm nominal outer dia Pipes metre	RM	626.05	10.00	6260.50
18.14	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
18.14(a)	18.9.6	50 mm nominal outer dia Pipes	Rm	811.85	15.00	12177.75
18.14©	18.9.9	100 mm nominal inner dia Pipes	Rm	2811.75	10.00	28117.50

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12
TOTAL=						568101.92



: CALCULATION SHEET :

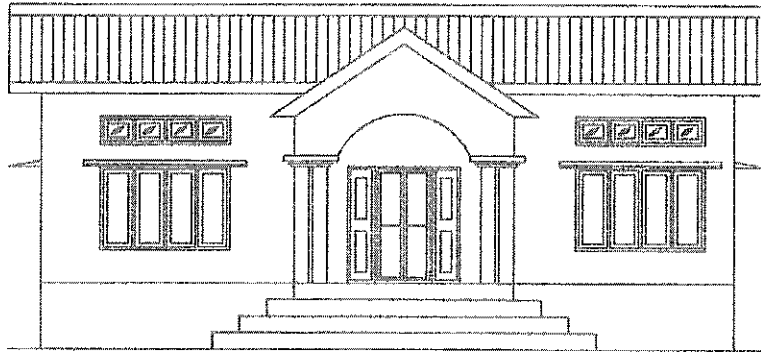
Sl.No.	Description of work	Unit	Length	Breadth	Height	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	11	0.30	0.30	1.00	0.99
						Total=	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total=	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total=	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total=	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total=	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total=	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total=	1.24
						Total=	5.28
3.02	RCC WORK FOR SUPPER STRUCTURE						
	FOR COLUMNS						
	from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total=	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total=	3.30

5.00	SHUTTERING WORKS							
5.01	FOR SUBSTRUCTURE							
	For PCC							
	F1	Sqm	4.80		0.08	6.00	2.16	
							2.16	
	for footing							
	F1	Sqm	4.00		0.18	6.00	4.20	
							4.20	
	Bases of columns							
	C1	Sqm	1.10		1.25	4.00	5.50	
	C2	Sqm	1.20		1.45	2.00	3.48	
							Sub Total=	8.98
							Total=	15.34
5.02	FOR COLUMNS							
	for ground floor							
	C1	Sqm	1.10		3.30	4.00	14.51	
	C2	Sqm	1.20		3.30	2.00	7.92	
							Sub Total=	22.43
5.04	FOR TIE BEAM							
		Sqm	11.00	0.45		2.00	9.90	
							Total=	9.90
5.05	FOR SLAB							
	1st floor Slab	SQM	2.40	1.80		1.00	4.32	
							TOTAL=	4.32
6.00	BRICK WORKS							
6.01	FLAT BRICK SOILING							
	F1	Sqm	1.20	1.00		6.00	7.20	
							Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60	
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00	
							Sub Total=	38.60
							Total=	45.80
6.02	FULL BRICK WORK							
	FOR SUB STRUCTURE	cum	11.00	0.50	0.60	1.00	3.30	
							Total=	3.30
6.03	HALF BRICK WORK							
		Sqm	11.00		3.30	1.00	36.30	
							Total=	36.30
7.00	REINFORCEMENT							
	FOR FOOTING							
	F1							
	10#	KG	1.80	13.00	0.62	6.00	86.58	
	10#	KG	1.80	13.00	0.62	6.00	86.58	
	FOR COLUMNS							
	C1							
	16#	KG	3.80	8.00	1.58	6.00	287.95	
	8#	KG	0.79	27.00	0.39	4.00	33.46	

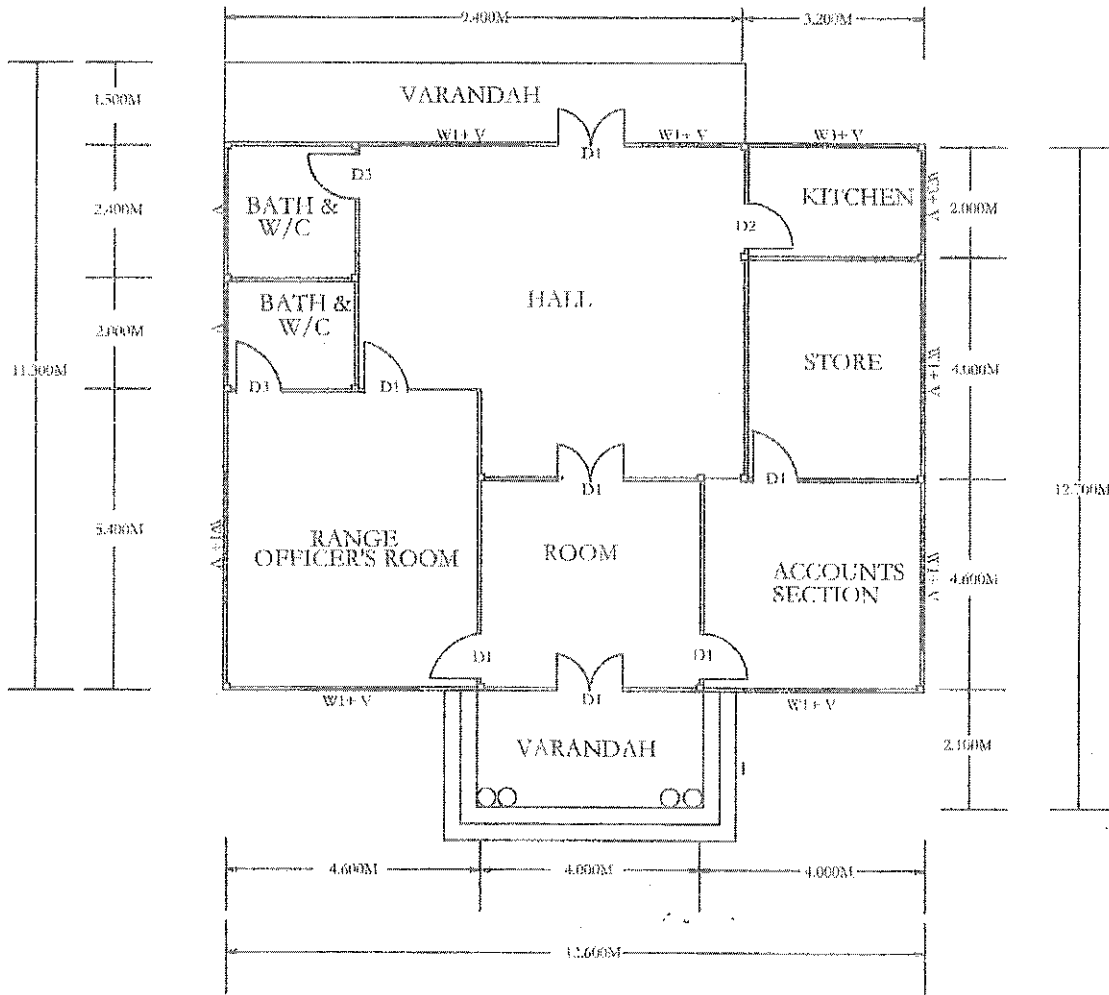
	FOR TIE BEAM							
	16#	KG	11.00	8.00	0.89	1.00	78.32	
	8#	KG	1.00	88.00	0.39	1.00	34.73	
								TOTAL= 607.62
8.00	FLOORING							
8.01	Floor tile	sqm	3.50	2.00		2.00	14.00	
								Total= 14.00
8.02	Wall tile	sqm	11.00		2.10	1.00	23.10	
								Total= 23.10
8.03	TUNCH BRICK	sqm	3.10		3.30	2.00	20.46	
								Total= 20.46
9.00	PLASTERING							
9.01	10MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60	
		Sqm	-2.10		0.90	6.00	-11.34	
		Sqm	-1.20		1.20	2.00	-2.88	
		Sqm	-0.90		0.60	4.00	-2.16	
								Total= 56.22
10.00	WALL PUTTY							
	OVER 10MM THICK PLASTERING	Sqm	22.00		3.30	2.00	145.20	
		Sqm	-2.10		0.90	6.00	-11.34	
		Sqm	-1.20		1.20	2.00	-2.88	
		Sqm	-0.90		0.60	4.00	-2.16	
								Total= 128.82
	OVER 15MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60	
		Sqm	-2.10		0.90	6.00	-11.34	
		Sqm	-1.20		1.20	2.00	-2.88	
		Sqm	-0.90		0.60	4.00	-2.16	
								Total= 56.22
								TOTAL= 185.04
11.00	PAINTING							
11.01	INSIDE PAINTING:	Sqm	11.00		3.30	2.00	72.60	
		Sqm	-2.10		0.90	6.00	-11.34	
		Sqm	-1.20		1.20	2.00	-2.88	
		Sqm	-0.90		0.60	4.00	-2.16	
								Total= 56.22
11.02	OUT SIDE PAINTING:							
	FOR WALLS	Sqm	11.00	3.30	1.00	2.00	72.60	
		Sqm	-2.10		0.90	2.00	-3.78	
		Sqm	-1.20		1.20	2.00	-2.88	

		Sqm	-0.90		0.60	4.00	-2.16
						TOTAL=	63.78
11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78

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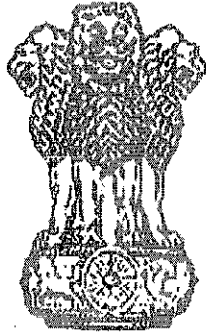


ELEVATION (SCALE 1:100)



PLAN (SCALE 1:100)

GOVT. OF ASSAM



सत्यमेव जयते

ASSAM FOREST DEPARTMENT

ESTIMATE

"

NAME OF WORK :- "CONSTRUCTION OF ASSAM TYPE
FORESTER BARRACK HOUSE"

Estimated Amount

Rs. 45,06,238.00

Name of Scheme :-- CONSTRUCTIN OF ASSAM TYPE FORESTER BARRACK
HOUSE

Estimated amount :- Rs. 45,06,238.00

REPORT

This estimate amounting to Rs.45,06,238.00(Rupees Forty Five Lakhs Six Thousand Two Hundred Thirty Eight) only has been framed to show the probable cost for "CONSTRUCTION OF ASSAM TYPE FORESTER BARRACK HOUSE"

The following provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index.

"CONSTRUCTION OF ASSAM TYPE FORESTER BARRACK HOUSE"

DETAILED ESTIMATE

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	Cum	79.86	286.85	22,907.84
Item No.2 DSR/2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	51.13	2116.20	1,08,201.31
Item No.3 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Sqm	4.99	6833.40	34,098.67
Item No.4 DSR/4.1	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources)	Cum	16.64	370.85	8,169.83
Item No.5 DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources.	Cum	3.00	10185.05	30,555.15
	FORM WORK/SHUTTERING :				
Item No.6 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.1 Foundation, footing, bases of Columns etc. for mass concrete	Sqm	20.20	307.95	6,220.59
	BRICK WORK				
Item No.7 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:6 (1cement : 6 coarse sand). (For Brick on flat soling.)	Sqm	151.77	898.20	1,36,319.81
Item No.8 DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	83.34	6882.00	5,73,545.88
	PLASTERING WORK				
Item No.9/DSR/13.1	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand)	Sqm	340.88	294.85	1,00,508.47
Item No.10/DSR/13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand)	Sqm	121.20	339.70	41,171.64
	STEEL WORK				
Item No.11 DSR/5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.22.1 Mild steel and Medium Tensile steel bars	Kg	400.00	88.95	35,580.00

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
	CC FLOORING				
Item No.12/DSR/11.5	62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.	Sqm	85.22	928.65	79,139.55
	FLOOR TILES				
Item No.13/DSR/11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.	Sqm	5.52	935.60	5,164.51
	WALL TILES				
Item No.14/DSR/8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sqm	19.74	1063.45	20,992.50
Item No.15/DSR/13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer	Sqm	121.20	131.45	15,931.74
Item No.16/DSR/13.109	Finishing walls with water proofing cement paint of required shade : 13.109.1 Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	Sqm	121.20	94.15	11,410.98
Item No.17/DSR/13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	340.80	123.85	42,208.08
Item No.18/DSR/13.60	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : 13.60.1 Two or more coats on new work	Sqm	340.80	137.85	46,979.28
	WOOD WORK				
Item No.19/DSR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.1 Second class teak wood	Cum	2.07	131576.95	2,72,364.29
Item No.20/DSR/9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4 mm thick float glass panes, including ISI marked M.S. pressed butt hinges bright finished of required size with necessary screws. 9.9.1 Second class teak wood 9.9.1.1 35 mm thick	sqm	17.64	4458.40	78,646.18
Item No.21/DSR	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 9.5.1 Second class teak wood 9.5.1.1 35mm thick	Sqm	33.15	3704.45	1,22,802.52

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.22/DS R/9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	Kg.	663.00	197.70	1,31,075.10
Item No.23/DSR/13.50	Applying priming coat: 13.50.2 With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	175.00	62.95	11,016.25
Item No.24/DSR/13.58	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	175.00	285.80	50,015.00
Item No.25/DSR/12.58	Providing and fixing tiled false ceiling of specified materials of size 595x595 mm in true horizontal level, suspended on interlocking metal grid of hot dipped galvanized steel sections (galvanized @ 120 grams/ sqm, both side inclusive) consisting of main "T" runner with suitably spaced joints to get required length and of size 24x38 mm made from 0.30 mm thick (minimum) sheet, spaced at 1200 mm center to center and cross "T" of size 24x25 mm made of 0.30 mm thick (minimum) sheet, 1200 mm long spaced between main "T" at 600 mm center to center to form a grid of 1200x600 mm and secondary cross "T" of length 600 mm and size 24x25 mm made of 0.30 mm thick (minimum) sheet to be interlocked at middle of the 1200x600 mm panel to form grids of 600x600 mm and wall angle of size 24x24x0.3 mm and laying false ceiling tiles of approved texture in the grid including, required cutting/making, opening for services like diffusers, grills, light fittings, fixtures, smoke detectors etc. Main "T" runners to be suspended from ceiling using GI slotted cleats of size 27 x 37 x 25 x1.6 mm fixed to ceiling with 12.5 mm dia and 50 mm long dash fasteners, 4 mm GI adjustable rods with galvanized butterfly level clips of size 85 x 30 x 0.8 mm spaced at 1200 mm center to center along main T, bottom exposed width of 24 mm of all T-sections shall be pre-painted with polyester paint, all complete for all heights as per specifications, drawings and as directed by Engineer-in-charge. 12.58.1 8 mm thick fully perforated calcium silicate board made with Calcareous & Siliceous materials reinforced with cellulose fiber manufactured through autoclaving process to give stable crystalline structure with minimum compressive strength 225 kg/ sq. cm, bending strength 100 kg/sq. cm , of size 595x595 mm, having perforation of dia. 10 mm with minimum perforated area 18 % with non woven tissue on the back side, having an NRC (Noise Reduction Coefficient) of 0.85, with 50 mm thick rockwool of 48 kg /cum backing.	Sqm	65.16	1851.50	1,20,638.19
Item No.27/DSR/10.16	10.16 Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete. 10.16.1 Hot finished welded type tubes	Kg	3000.00	154.90	4,64,700.00

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.22/DS R/12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm	149.13	978.00	1,45,849.14
Total cost of the works =					27,14,212.49
Total Cost for Toilet & Sanitary Work = Rs.					5,68,101.92
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					50,000.00
Total Cost for Internal Electrification add 9% = Rs.					2,44,279.12
Total Cost =Rs.					37,24,163.74
21% Cost Index =					7,82,074.39
Grand Total =					45,06,238.13
Say = Rs.					45,06,238.00

(Rupees Forty Five Lakhs Six Thousand Two Hundred Thirty Eight) Only

Checked
DS
12/12/2022
12/12/2022

: Estimate of Septic Tank and Soak Pit :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05
5.00		BRICK WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER :				
		Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70
TOTAL=Rs.						97570.20

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: Calculation Sheet :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
Total							14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
Total							0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
Total:							5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
Total:							3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
Total:							1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
Total:							1.38
5.00	SHUTTERING :						
	ii)Scum Boar	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
Total:							3.24
6.00	PLASTERING :						

6.01	i)Long Wall	Sqm.	3.00		1.6	2	9.60
	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	Tor Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qtyl in qtl.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

WOK

: Estimate of Toilet Block With Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete				
		All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	5.28	42220.25
		All works above plinth level to all level.				
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10030.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK				
		Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES				
		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB				
		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	123.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54
18.00		SANITARY:				
18.01	17.70	Wash Basin				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3392.85	2.00	6785.70
18.02	17.72	Towel Ring Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	204.70	2.00	409.40
18.03	18.65	Soap Dish Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	96.75	2.00	193.50
18.04	17.32	Mirror Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.1	Circular shape 450 mm dia	each	1248.60	2.00	2497.20
18.05	18.56	Pillar Cock Providing and fixing PTMT pillar cock of approved quality and colour.				
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	180.80	2.00	361.60
18.06	18.15	Bib Cock Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore	each	303.85	4.00	1215.40
18.07	18.58	GRATING Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1	Circular type				
	18.58.1.1	100 mm nominal dia	each	33.20	12.00	398.40
18.08	18.63	Stop Cock Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	136.60	12.00	1639.20
18.09	17.2	EUROPEAN TYPE WATER CLOSET				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	5540.55	1.00	5540.55
18.10	17.1	INDIAN TYPE WATER CLOSET				
		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	5781.35	1.00	5781.35
18.11		URINALS				
		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	18546.45	2.00	37092.90
18.12	18.2	Piping				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing Polyethelene-Aluminium-Polyethelene PE-ALPE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
		Concealed work, including cutting chases and making good the wall etc.				
18.12(a)	18.2.1	1216 (16 mm OD) pipe metre	RM	513.75	50.00	25687.50
18.13		CPVC PIPES				
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
18.13(a)	18.8.2	20 mm nominal outer dia Pipes metre	RM	513.75	10.00	5137.50
18.13(b)	18.8.3	25 mm nominal outer dia Pipes metre	RM	626.05	10.00	6260.50
18.14	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
18.14(a)	18.9.6	50 mm nominal outer dia Pipes	Rm	811.85	15.00	12177.75
18.14©	18.9.9	100 mm nominal Inner dia Pipes	Rm	2811.75	10.00	28117.50

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.	per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12
TOTAL=						568101.92

WAK

: Calculation Sheet :

Sl.No.	Description of work	Unit	Length	Breadth	Height	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	11	0.30	0.30	1.00	0.99
						Total =	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total =	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total =	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total =	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total =	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total =	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total =	1.24
						Total =	5.28
3.02	RCC WORK FOR SUPPER STRUCTURE						
	FOR COLUMNS						
	from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total =	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total =	3.30
5.00	SHUTTERING WORKS						
5.01	FOR SUBSTRUCTURE						

	For PCC						
	F1	Sqm	4.80		0.08	6.00	2.16
							2.16
	for footing						
	F1	Sqm	4.00		0.18	6.00	4.20
							4.20
	Bases of columns						
	C1	Sqm	1.10		1.25	4.00	5.50
	C2	Sqm	1.20		1.45	2.00	3.48
						Sub Total=	8.98
						Total=	15.34
5.02	FOR COLUMNS						
	for ground floor						
	C1	Sqm	1.10		3.30	4.00	14.51
	C2	Sqm	1.20		3.30	2.00	7.92
						Sub Total=	22.43
5.04	FOR TIE BEAM						
		Sqm	11.00	0.45		2.00	9.90
						Total=	9.90
5.05	FOR SLAB						
	1st floor Slab	SQM	2.40	1.80		1.00	4.32
						TOTAL=	4.32
6.00	BRICK WORKS						
6.01	FLAT BRICK SOILING						
	F1	Sqm	1.20	1.00		6.00	7.20
						Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00
						Sub Total=	38.60
						Total=	45.80
6.02	FULL BRICK WORK						
	FOR SUB STRUCTURE	cum	11.00	0.50	0.60	1.00	3.30
						Total=	3.30
6.03	HALF BRICK WORK						
		Sqm	11.00		3.30	1.00	36.30
						Total=	36.30
7.00	REINFORCEMENT						
	FOR FOOTING						
	F1						
	10#	KG	1.80	13.00	0.62	6.00	86.58
	10#	KG	1.80	13.00	0.62	6.00	86.58
	FOR COLUMNS						
	C1						
	16#	KG	3.80	8.00	1.58	6.00	287.95
	8#	KG	0.79	27.00	0.39	4.00	33.46
	FOR TIE BEAM						
	16#	KG	11.00	8.00	0.89	1.00	78.32

	8#	KG	1.00	88.00	0.39	1.00	34.73
8.00	FLOORING					TOTAL=	607.62
8.01	Floor tile	sqm	3.50	2.00		2.00	14.00
						Total=	14.00
8.02	Wall tile	sqm	11.00		2.10	1.00	23.10
						Total=	23.10
8.03	TUNCH BRICK	sqm	3.10		3.30	2.00	20.46
						Total=	20.46
9.00	PLASTERING						
9.01	10MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
10.00	WALL PUTTY						
	OVER 10MM THICK PLASTERING	Sqm	22.00		3.30	2.00	145.20
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	128.82
	OVER 15MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
						TOTAL=	185.04
11.00	PAINTING						
11.01	INSIDE PAINTING:	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
11.02	OUT SIDE PAINTING:						
	FOR WALLS	Sqm	11.00	3.30	1.00	2.00	72.60
		Sqm	-2.10		0.90	2.00	-3.78
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						TOTAL=	63.78

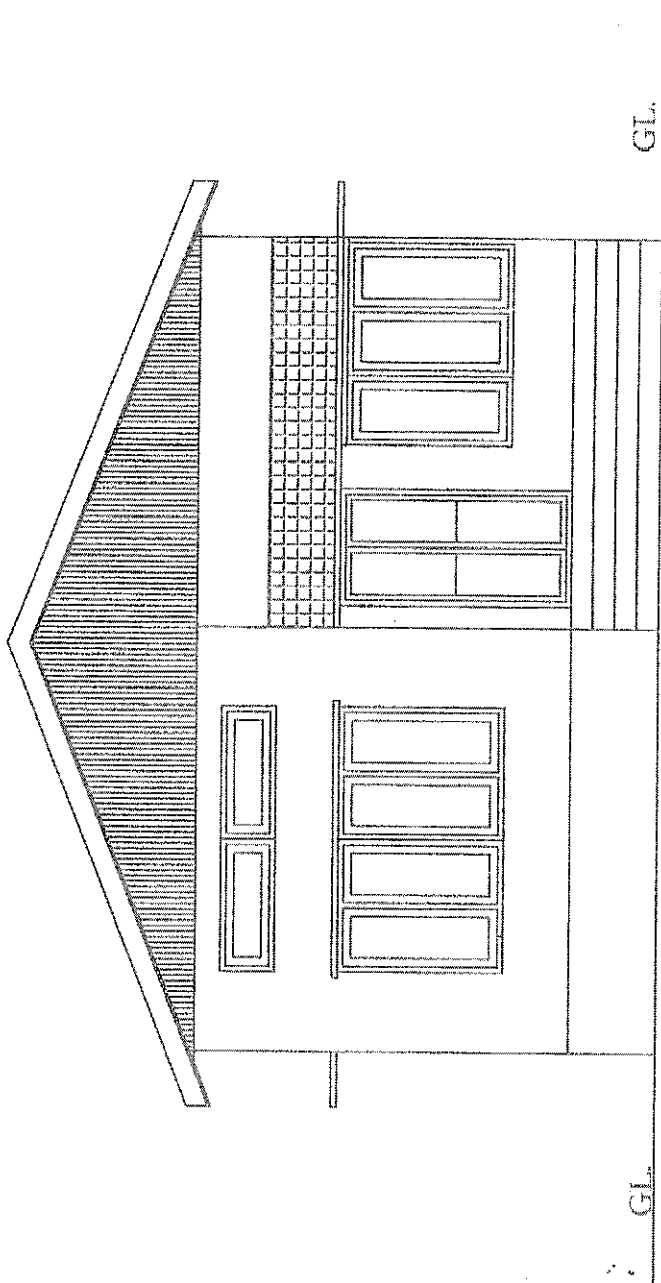
11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78



PLAN

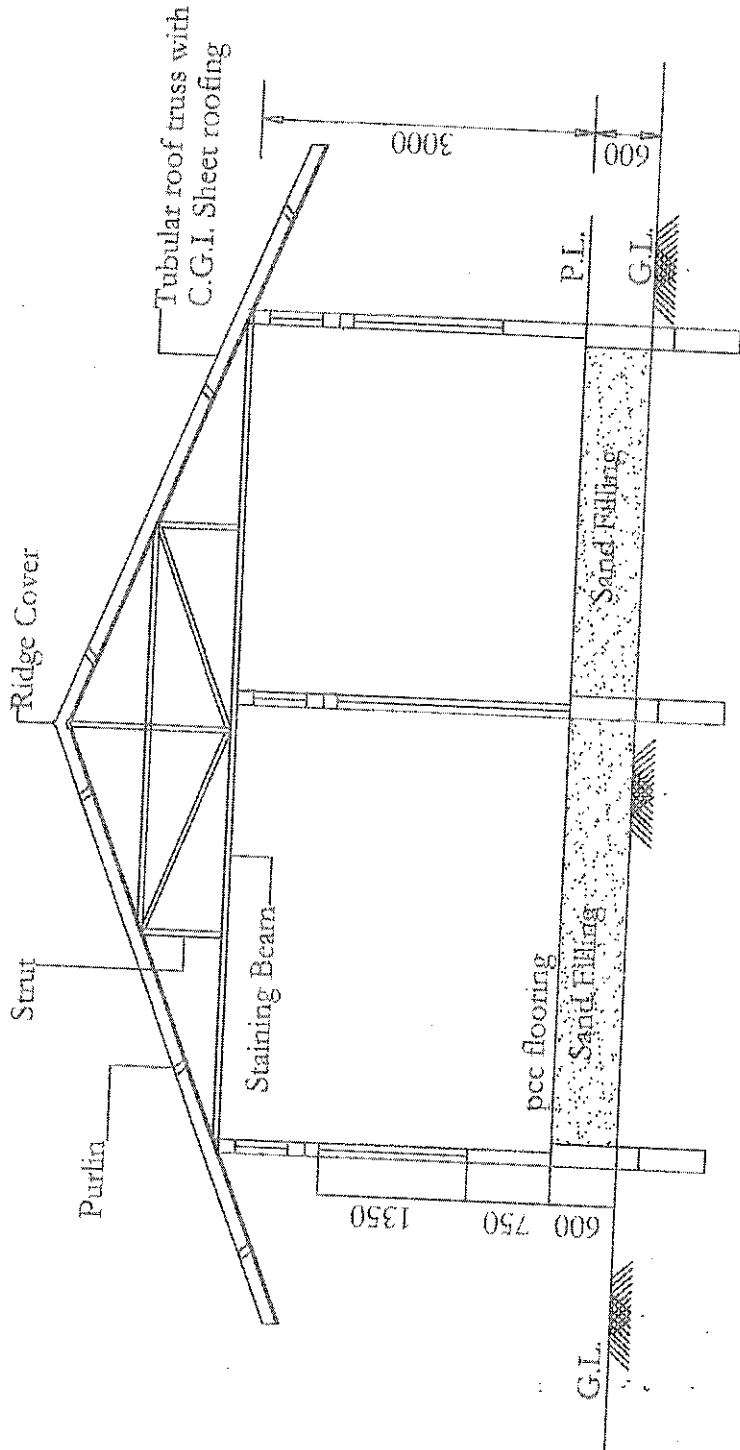
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FRONT ELEVATION

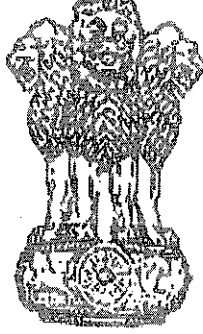
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SECTION AT- XX

Signature

GOVT. OF ASSAM



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ASSAM FOREST DEPARTMENT

ESTIMATE

Name of work :- "CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORIED RCC BUILDING (FOREST GUARD/GAME WATCHER/GRADE-IV QUARTER AND OTHER QUARTER)"

Estimated Amount

Rs. 35,16,411.00

Name of work :-- "CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORIED RCC BUILDING (FOREST GUARD/GAME WATCHER/GRADE-IV QUARTER AND OTHER QUARTER)"

Estimated amount :- Rs. 35,16,411.00

REPORT

This estimate amounting to Rs.35,16,411.00 (Rupees Thirty Five Lakhs Sixteen Thousand Four Hundred Eleven) only has been framed to show the probable cost for "CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORIED RCC BUILDING (FOREST GUARD/GAME WATCHER/GRADE-IV QUARTER AND OTHER QUARTER)"

The following provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index.

Name of Work :- CONSTRUCTION OF GROUND FLOOR WITH PROVISION FOR THREE STORED RCC BUILDING
(FOREST GUARD/GAME WATCHER/GRADE-IV QUARTER AND OTHER QUARTER)

DETAILED ESTIMATE

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. a) In ordinary soil Footing Tie Beam 10 x 1.60 x 1.60 x 2.130 = 54.53 Cum 1 x 8.70 x 0.45 x 0.23 = 0.90 Cum 2 x 9.90 x 0.45 x 0.23 = 2.05 Cum 3 x 4.20 x 0.45 x 0.23 = 1.30 Cum 2 x 2.40 x 0.45 x 0.23 = 0.50 Cum 2 x 4.50 x 0.45 x 0.23 = 0.93 Cum Total = 60.210 Cum	Cum	60.21	286.85	17,271.20
Item No.2 DSR/2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. 8.70 x 4.20 x 0.600 = 21.92 Cum 2.40 x 4.50 x 0.600 = 6.48 Cum 4.50 x 4.20 x 0.600 = 11.34 Cum Total = 39.744 Cum	Cum	39.74	2116.20	84106.25
Item No.3 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) Footing 10 x 1.6 x 1.60 x 0.100 = 2.56 Sqm Tie-Beams 1 x 58.50 x 0.23 x 0.10 = 1.35 Sqm Total = 3.91 Sqm	Sqm	3.91	6833.40	26,687.84
Item No.4 DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. (Foundation and Sub-Structure) Footings - 10 x 1.40 x 1.400 x 0.200 = 3.920 Cum Slop Portion - 10 x (1.40 x 1.40) + (0.25 x 0.25) x 0.25 = 4.980 Cum Columns - 10 x 0.25 x 0.25 x 1.715 = 1.072 Cum Columns - 10 x 0.25 x 0.25 x 3.300 = 2.063 Cum Tie-Beam - 1 x 58.500 x 0.450 x 0.23 = 6.055 Cum Lintel - 3 x 4.200 x 0.125 x 0.15 = 0.236 Cum - 1 x 8.700 x 0.125 x 0.15 = 0.163 Cum - 1 x 3.300 x 0.125 x 0.15 = 0.062 Cum - 1 x 1.200 x 0.125 x 0.15 = 0.023 Cum - 2 x 8.700 x 0.125 x 0.15 = 0.326 Cum - 2 x 2.400 x 0.125 x 0.15 = 0.090 Cum - 2 x 4.500 x 0.125 x 0.15 = 0.169 Cum Beam - 1 x 58.500 x 0.350 x 0.230 = 4.709 Cum Chajjah - 1 x 6.000 x 0.600 x 0.075 = 0.270 Cum - 1 x 4.200 x 0.600 x 0.075 = 0.189 Cum - 1 x 1.500 x 0.600 x 0.075 = 0.068 Cum - 1 x 2.400 x 0.600 x 0.075 = 0.108 Cum - 1 x 8.700 x 0.600 x 0.075 = 0.392 Cum - 1 x 2.100 x 0.600 x 0.075 = 0.095 Cum - 1 x 4.500 x 0.600 x 0.075 = 0.203 Cum Slab - 1 x 9.300 x 4.900 x 0.100 = 4.464 Cum - 1 x 4.500 x 3.000 x 0.100 = 1.350 Cum - 1 x 4.800 x 5.100 x 0.100 = 2.448 Cum Stair Case - 1 x 2.400 x 0.075 x 0.300 x 1.0 = 0.027 Cum Total = 33.48 Cum	Cum	33.48	10185.05	3,40,986.56

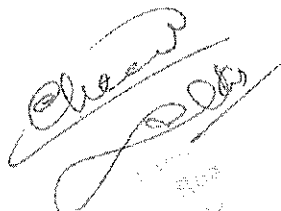
Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.5 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:6 (1 cement : 6 coarse sand). (For Brick on flat soling.) Footing 10 x 1.6 x 1.60 = 25.60 Sqm Tie-Beams= 1 x 58.50 x 0.23 = 13.46 Sqm Floor 1 x 8.70 x 4.20 = 36.54 Sqm 1 x 2.40 x 4.50 = 10.80 Sqm 1 x 4.50 x 4.20 = 18.90 Sqm Deduct Column 10 x 0.25 x 0.25 = 0.63 Sqm Total = 104.67 Sqm	Sqm	104.67	898.20	94,014.59
Item No.6 DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand) 1 x 57.00 x 0.23 x 0.60 = 7.87 Cum Total = 7.87 Cum	Cum	7.87	6882.00	54,133.81
Item No.7 DSR/4.1	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources) 1.00 x 57.00 x 0.230 = 13.110 Sqm. Less Column 10.00 x 0.35 x 0.25 = 0.88 Sqm. Total = 12.24 Sqm.	Sqm	12.24	370.85	4,537.35
Item No.8 DSR/4.17 B	Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 manufactured sand derived from Recycled Concrete Aggregate (RCA) : 6 graded stone aggregate 20 mm nominal size (Recycled Aggregate (RA) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth. Footing 10 x 1.6 x 1.60 = 25.60 Sqm Tie-Beams= 1 x 57.00 x 0.23 = 13.11 Sqm Floor 1 x 8.70 x 4.20 = 36.54 Sqm 1 x 2.40 x 4.50 = 10.80 Sqm 1 x 4.50 x 4.20 = 18.90 Sqm Deduct Column 10 x 0.25 x 0.25 = 0.63 Sqm Total = 104.33 Sqm	Sqm	104.33	596.60	62,240.30
Item No.9 DSR/6.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor level. 6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand) 1 x 57.00 x 3.30 = 188.10 Sqm Deduct Door , Windows & Ventilafors W1 3 x 1.35 x 1.37 = -5.55 Sqm W2 3 x 0.90 x 1.37 = -3.70 Sqm W4 1 x 0.90 x 0.90 = -0.81 Sqm V1 3 x 1.35 x 0.50 = -2.03 Sqm V2 2 x 0.90 x 0.50 = -0.90 Sqm D1 3 x 1.00 x 2.10 = -6.30 Sqm D2 1 x 0.75 x 2.10 = -1.58 Sqm Total = 167.24 Sqm	Sqm	167.24	1043.10	1,74,450.65

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
<u>Item</u> <u>No.710</u> DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.1 Foundation, footing, bases of Columns etc. for mass concrete Footing - 10 x 4 x 1.60 x 0.20 = 12.80 Sqm Column - 10 x 4 x 0.25 x 1.72 = 17.15 Sqm T-Beam - 2 x 58.50 x 0.45 = 52.85 Sqm Total = 82.60 Sqm	Sqm	82.60	307.95	25,436.67
<u>Item</u> <u>No.11</u> DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.9 Arches, domes, vaults, inclined slab up to 6 m span Column - 10 x 4.00 x 0.25 x 3.30 = 33.000 Sqm LINTEL - 1 x 57.00 x 0.15 x 3.00 = 25.650 Sqm Beam - 1 x 58.50 x 0.35 x 2.00 = 40.950 Sqm Chajjah - 1 x 6.30 x 0.68 = 4.253 Sqm 1 x 4.25 x 0.68 = 2.889 Sqm 1 x 1.50 x 0.68 = 1.013 Sqm 1 x 2.40 x 0.68 = 1.620 Sqm 1 x 8.70 x 0.68 = 5.873 Sqm 1 x 2.10 x 0.68 = 1.418 Sqm 1 x 4.50 x 0.68 = 3.038 Sqm Slab - 1 x 9.30 x 4.80 = 44.640 Sqm 1 x 4.50 x 3.00 = 13.500 Sqm 1 x 4.800 x 5.100 = 24.480 Sqm Stair Case - 10 x 0.15 x 2.40 x 2.00 = 7.200 Sqm 2 x 2.40 x 3.80 = 18.240 Sqm Total = 227.741 Sqm	Sqm	227.74	1826.25	4,15,912.46
<u>Item</u> <u>No.12/DS</u> <u>R/13.2</u>	12 mm cement plaster of mix : 13.1.1 1:4 (1 cement: 4 fine sand) Wall 1 x 165.67 = 165.670 Sqm Beams 1 x 58.50 x 0.35 x 2.00 = 40.950 Sqm 1 x 6.30 x 0.675 = 4.253 Sqm 1 x 4.20 x 0.675 = 2.835 Sqm 1 x 1.50 x 0.675 = 1.013 Sqm 1 x 2.40 x 0.675 = 1.620 Sqm 1 x 8.70 x 0.675 = 5.873 Sqm 1 x 2.10 x 0.675 = 1.418 Sqm 1 x 4.50 x 0.675 = 3.038 Sqm Slab - 1 x 9.300 x 4.800 = 44.640 Sqm - 1 x 4.500 x 3.000 = 13.500 Sqm - 1 x 4.800 x 5.100 = 24.480 Sqm Stair Case - 10 x 2.400 x 0.150 = 3.600 Sqm Total = 312.888 Sqm	Sqm	312.89	294.85	92,254.88
<u>Item</u> <u>No.13/DS</u> <u>R/9.48</u>	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	Kg.	112.67	197.70	22,274.86
<u>Item</u> <u>No.14</u> DSR/5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.22.1 Mild steel and Medium Tensile steel bars M.S. Rod (Stirrups)	Kg	3176.00	88.95	2,82,505.20
<u>Item</u> <u>No.15</u>	Renewing glass panes, with wooden fillets wherever necessary: 14.6.1 Float glass panes of nominal thickness 4 mm (weight not less than 10kg/sqm)	Sqm	9.12	1351.15	12,322.49
<u>Item</u> <u>No.16</u> DSR/8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm. including pointing in white cement mixed with pigment of matching shade complete.	Sqm	22.85	1063.45	24,299.83
<u>Item</u> <u>No.17</u> DSR/11.15	Crazy marble stone flooring, including filling the gaps with light shade pigment with white cement marble powder mixture (3 parts of white cement : 1 part of marble powder) by weight in proportion of 4:7 (4 cement marble powder mix : 7 white, black or white and black marble chips of sizes from 1 mm to 4 mm nominal size by volume), with under layer 25 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size), including rubbing, polishing and cement slurry etc. complete : 11.15.1 18 mm thick crazy marble stone white, black or as specified	Sqm	10.80	1891.07	20,423.56

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.18 DSR/13.00	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	Sqm	292.91	123.85	36,276.00
Item No.19 DSR/13.40	Distemper with oil bound washable distemper of approved brand and manufacture to give an even shade : 13.41.1 New work (two or more coats) over and including water thinnable priming coat with cement primer	Sqm	292.91	162.55	47,512.52
Item No.20 DSR/13.50	Applying priming coat: 13.50.2 With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	185.64	62.95	11,686.04
Item No.21 DSR/13.10 9	Finishing walls with water proofing cement paint of required shade : -13.109.1 Old work (one or more coats applied @ 2.20 kg/10 sqm) over priming coat of primer applied @ 0.80 litres/10 sqm complete including cost of Priming coat.	Sqm	185.64	94.15	17,478.01
Item No.22 /DSR/13.6	Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : 13.60.1 Two or more coats on new work	Sqm	21.46	137.85	2,958.26
Item No.23/DSR/13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer	Sqm	44.86	131.45	5,896.85
Item No.24/ DSR/13.58	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	44.86	285.80	12,820.99
Sanitary fittings					
Item No.29 /DSR/17.1. 3	Providing and fixing white vitreous china pedestal type water closet (European type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P. flush bend with fittings & C.I. brackets, 40 mm flush bend, overflow arrangement with specials of standard make and mosquito proof coupling of approved municipal design complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : W.C. pan with ISI marked white solid plastic seat and lid	Each	2.00	6941.30	13,882.60
Item No.30 /DSR/17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.2 Range of two urinal basins with 5 litre white P.V.C. automatic flushing cistern	Each	2.00	8115.55	16,231.10
Item No.31 /MR	Providing and fixing vitreous china wall hung water closet (European type) with C.P. bolts, nuts, CI chair, soft closing solid plastic seat cover with lid, CP brass hinges and rubber buffers, connected to existing Concealed Cistern with chrome finish front plate, 32mm dia flush pipe with clamp and rubber adapter joint, CP brass screws and washers and any other accessories complete including cutting and making good the walls and floors wherever required. (JAQUAR CNS-WHT-963SPP,JCS-WHT-2400S,JCP-CHR-2415)	Each	2.00	16325.00	32,650.00
Item No.32 /DSR/17.4	Providing and fixing white vitreous china flat back or wall corner type lipped front urinal basin of 430x260x350 mm and 340x410x265 mm sizes respectively with automatic flushing cistern with standard flush pipe and C.P. brass spreaders with brass unions and G.I clamps complete, including painting of fittings and brackets, cutting and making good the walls and floors wherever required : 17.4.3 Range of three urinal basins with 10litre white P.V.C. automatic flushing cistern	Each	2.00	11256.40	22,512.80
Item No.33 /MR	Providing and fixing vitreous china, wash basin with specially fabricated M.S. or CI brackets, 32mm CP brass waste of standard pattern, 32mm dia C.P. brass bottle trap and making connection to the waste pipe in wall with C.P wall flange and rubber adpater complete with required accessories including painting of brackets and cutting and making good the walls wherever required. Under counter (Jaquar make-CNS-WHT-811 + CNS-WHT-303)	Each	3.00	4800.00	14,400.00
Item No.34 /DSR/17.1 0.1.1	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS-13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required : Kitchen sink with drain board - 510x1040 mm bowl depth 250 mm	Each	1.00	6008.45	6,008.45
Item No.35 /DSR/17.3 1	Providing and fixing 600x450 mm beveled edge mirror of superior glass (of approved quality) complete with 6 mm thick hard board ground fixed to wooden cleats with C.P brass screws and washers complete.	Each	2.00	1411.50	2,823.00

Item No	Description of Item	Unit	Qty.	Rate	Amount In Rs.
1	2	3	4	5	6
Item No.36 /DSR/17.3 3	Providing and fixing 600x120x5 mm glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm long screws, rawl plugs etc., complete.	Each	2.00	942.15	1,884.30
Item No.37 /MR	Providing and fixing Soap dish holder (Jaquar make Model No-ACN-1131N)	Each	4.00	158.55	634.20
Item No. 38/MR	Providing and fixing Towel Rack 500mm long (Jaquar make Model No-ACN-1131S)	Each	3.00	3150.00	9,450.00
Item No.39/MR	Providing and fixing Towel ring (Jaquar make Model No-ACN-1121BN)	Each	3.00	950.00	2,850.00
Item No.40/MR	Providing and fixing toilet paper holder : CP brass	Each	2.00	680.00	1,360.00
Item No.41/1.36 .1	Supplying fitting and fixing I.S.I marked or similar approved H.C.I pipe including bolts and nuts and other fittings as required and complete at all levels including below directed and specified. a) In exposed surfaces or in trenches i) 150mm dia	Rm.	20.00	1534.01	30680.20
Item No.42/1.37 .1	Supplying fitting and fixing PVC pipes of 6 Kg/cm ² (Suprema/prince) or other ISI approved including joining, fitting and fixing with clamps etc. as necessary complete all levels including and specified a) In exposed surfaces or in trenches i) 150mm dia	Rm.	10.00	1275.63	12756.30
Item No.43/1.45	Supplying fitting and fixing Kitchen chimney including water proof ply board, plam sheet, decorative prelaminated sheet, nail fevicol, dendrite wooden beading etc. as required.	Each	1.00	30703.92	30,703.92
Item No.44/1.46	Providing fitting and fixing 450mm dia 90mm thick C.I. Man hole cover and frame of 58 Kg. weight complete as directed and specified.	Each	1.00	4097.75	4,097.75
Total cost of the Civil Works =					20,91,512.77
Total Cost for Toilet & Sanitary Work = Rs.					4,28,805.97
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					50,000.00
Total Cost for Internal Electrification add 9% = Rs.					1,88,236.15
Total Cost =Rs.					29,06,125.09
21% Cost Index					6,10,286.27
Grand Total =					35,16,411.36
Say = Rs.					35,16,411.00

(Rupees Thirty Five Lakhs Sixteen Thousand Four Hundred Eleven) Only



: Estimate of Septic Tank and Soak Pit :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete: All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05
5.00		BRICK WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER :				
		Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70

TOTAL=Rs. 97570.20

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: Calculation Sheet :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
						Total	14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
						Total	0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
						Total:	5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
						Total:	3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
						Total:	1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
						Total:	1.38
5.00	SHUTTERING :						
	ii)Scum Board	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
						Total:	3.24
6.00	PLASTERING :						

655485/2022/NA

6.01	i)Long Wall	Sqm.	3.00		1.6	2	9.60
	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	Top Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qtyi in qtl.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

: Estimate of Toilet Block with Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying; curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete				
		All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	5.28	42220.25
		All works above plinth level to all level.				
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10080.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK				
		Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				


Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	123.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
			per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12

TOTAL= 428805.97



: Calculation Sheet :

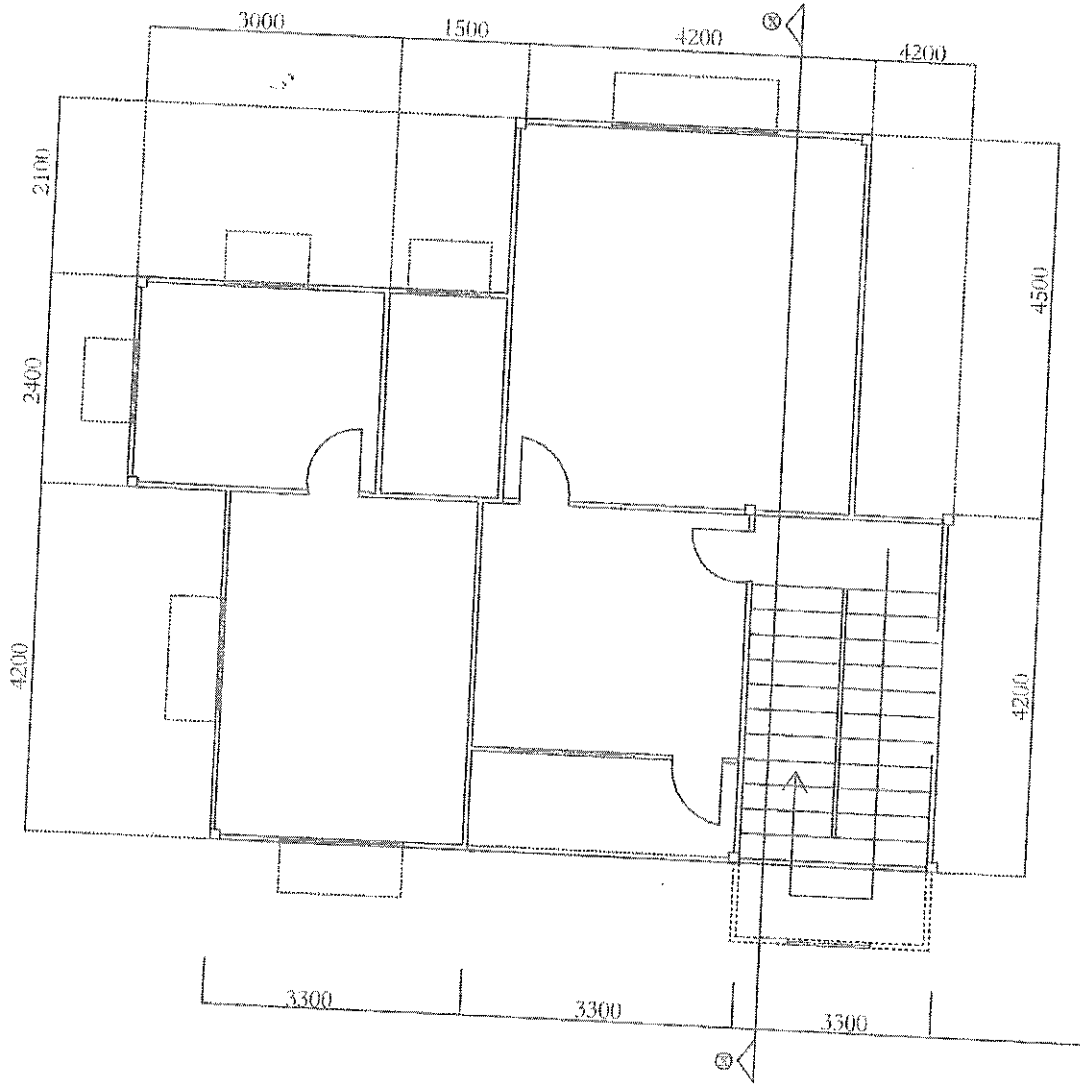
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	Description of work	Unit	Length	Breadth	Height	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	11	0.30	0.30	1.00	0.99
						Total =	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total =	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total =	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total =	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total =	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total =	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total =	1.24
						Total =	5.28
3.02	RCC WORK FOR SUPPER STRUCTURE FOR COLUMNS from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total =	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total =	3.30
5.00	SHUTTERING WORKS						
5.01	FOR SUBSTRUCTURE						

	For PCC						
	F1	Sqm	4.80		0.08	6.00	2.16
							2.16
	for footing						
	F1	Sqm	4.00		0.18	6.00	4.20
							4.20
	Bases of columns						
	C1	Sqm	1.10		1.25	4.00	5.50
	C2	Sqm	1.20		1.45	2.00	3.48
						Sub Total=	8.98
						Total=	15.34
5.02	FOR COLUMNS for ground floor						
	C1	Sqm	1.10		3.30	4.00	14.51
	C2	Sqm	1.20		3.30	2.00	7.92
						Sub Total=	22.43
5.04	FOR TIE BEAM						
		Sqm	11.00	0.45		2.00	9.90
						Total=	9.90
5.05	FOR SLAB 1st floor Slab						
		SQM	2.40	1.80		1.00	4.32
						TOTAL=	4.32
6.00	BRICK WORKS						
6.01	FLAT BRICK SOILING						
	F1	Sqm	1.20	1.00		6.00	7.20
						Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00
						Sub Total=	38.60
						Total=	45.80
6.02	FULL BRICK WORK FOR SUB STRUCTURE						
		cum	11.00	0.50	0.60	1.00	3.30
						Total=	3.30
6.03	HALF BRICK WORK						
		Sqm	11.00		3.30	1.00	36.30
						Total=	36.30
7.00	REINFORCEMENT FOR FOOTING						
	F1						
	10#	KG	1.80	13.00	0.62	6.00	86.58
	10#	KG	1.80	13.00	0.62	6.00	86.58
	FOR COLUMNS						
	C1						
	16#	KG	3.80	8.00	1.58	6.00	287.95
	8#	KG	0.79	27.00	0.39	4.00	33.46
	FOR TIE BEAM						
	16#	KG	11.00	8.00	0.89	1.00	78.32

11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78

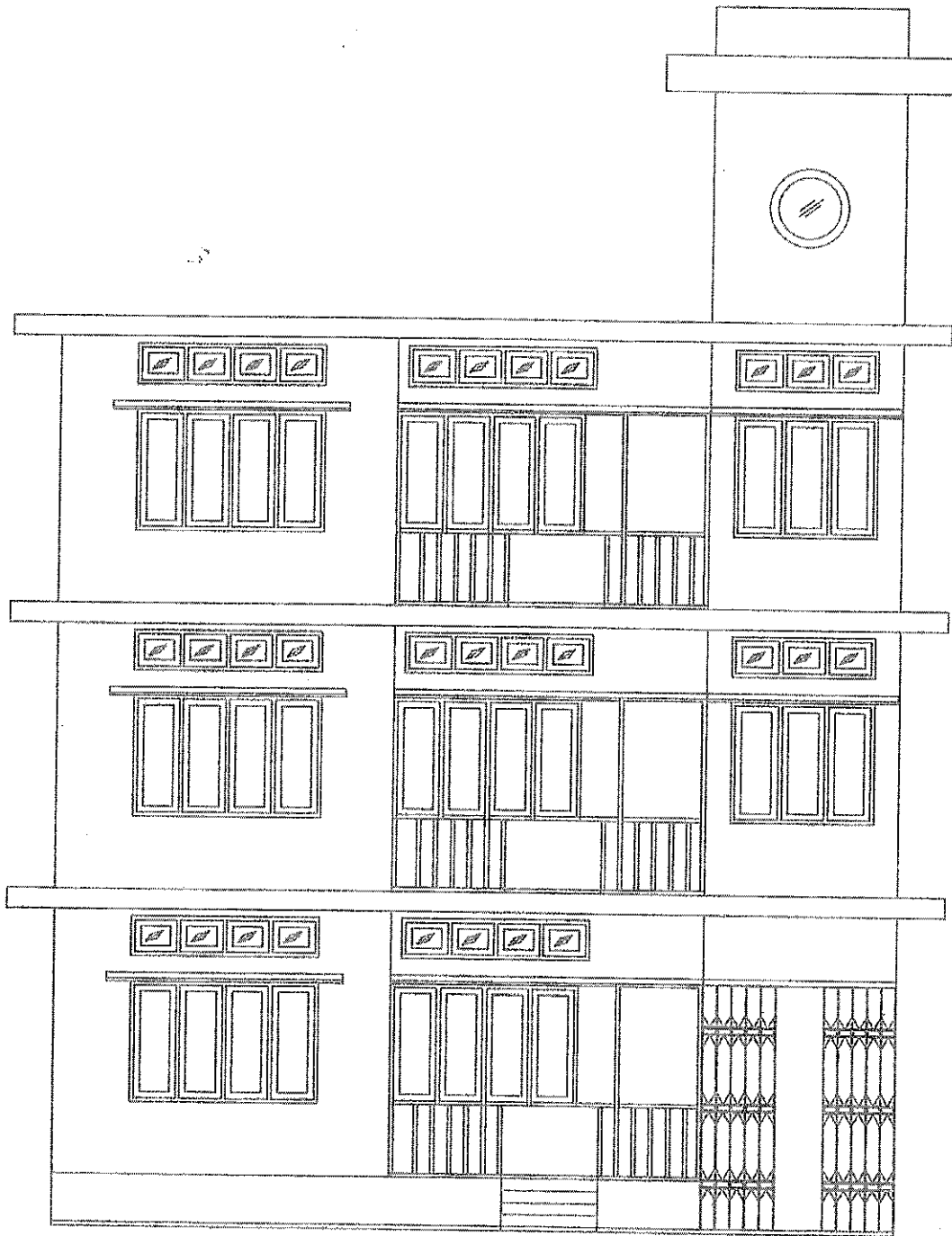
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1ST & 2ND FLOOR PLAN
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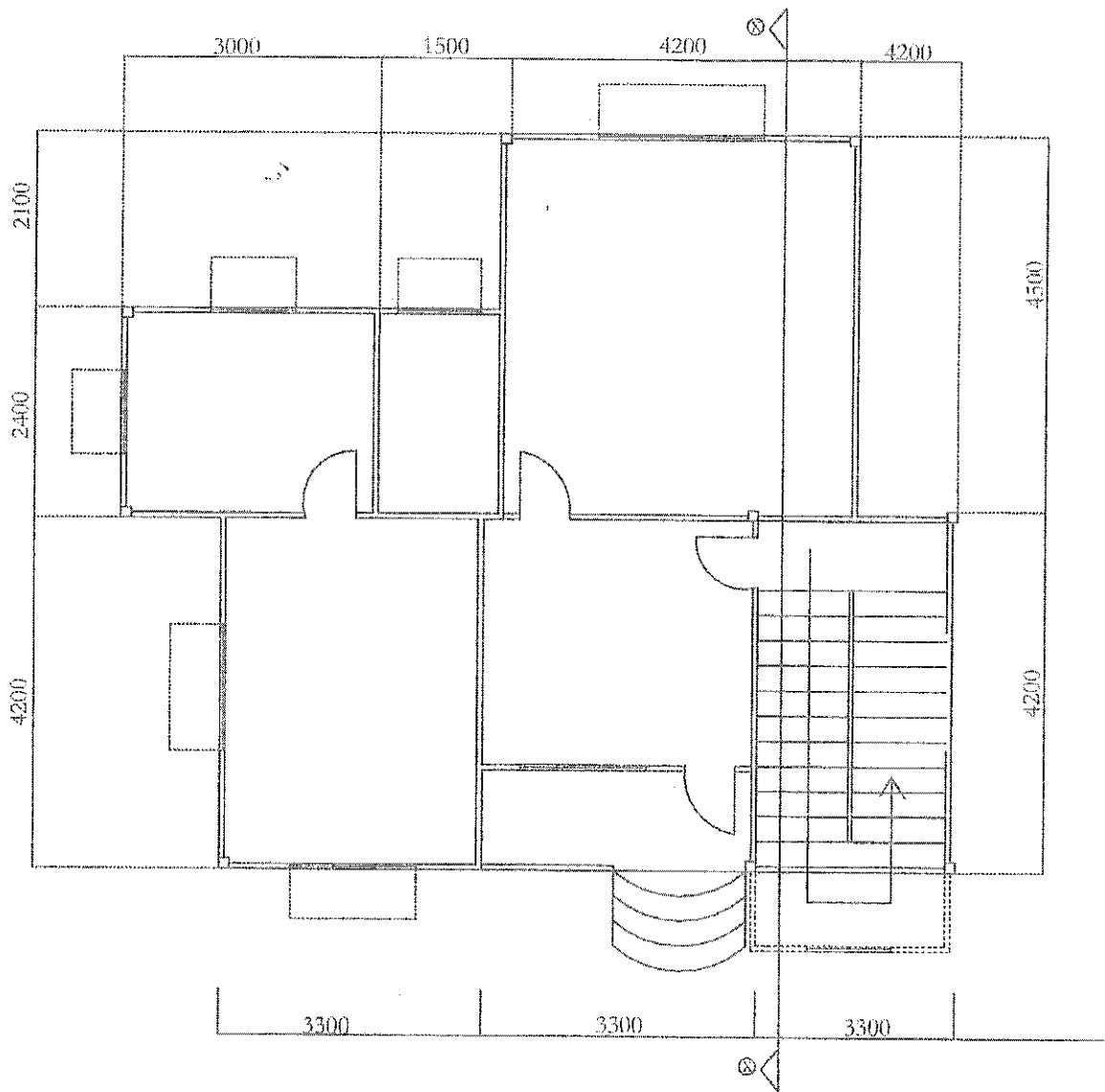
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	8#	KG	1.00	88.00	0.39	1.00	34.73
						TOTAL=	607.62
8.00	FLOORING						
8.01	Floor tile	sqm	3.50	2.00		2.00	14.00
						Total=	14.00
8.02	Wall tile	sqm	11.00		2.10	1.00	23.10
						Total=	23.10
8.03	TUNCH BRICK	sqm	3.10		3.30	2.00	20.46
						Total=	20.46
9.00	PLASTERING						
9.01	10MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
10.00	WALL PUTTY OVER 10MM THICK PLASTERING	Sqm	22.00		3.30	2.00	145.20
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	128.82
	OVER 15MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
						TOTAL=	185.04
11.00	PAINTING						
11.01	INSIDE PAINTING:	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
11.02	OUT SIDE PAINTING: FOR WALLS	Sqm	11.00	3.30	1.00	2.00	72.60
		Sqm	-2.10		0.90	2.00	-3.78
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						TOTAL=	63.78



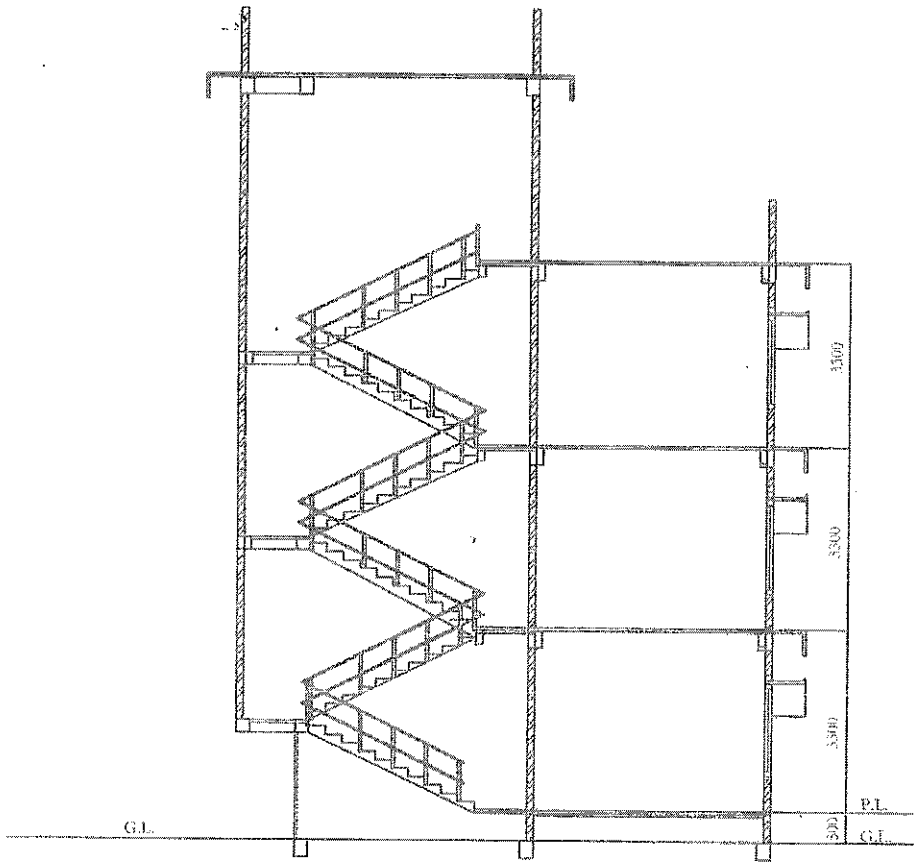
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GROUND FLOOR PLAN
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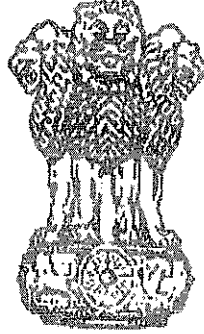
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GOVT. OF ASSAM



सत्यमेव जयते

ASSAM FOREST DEPARTMENT

ESTIMATE

NAME OF WORK :- "CONSTRUCTION OF ASSAM TYPE BUILDING FOR FORESTER QUARTER"

Estimated Amount

Rs. 37,28,055.00

Name of Scheme :-- "CONSTRUCTION OF ASSAM TYPE BUILDING FOR FORESTER QUARTER"

Estimated amount :- Rs. 37,28,055.00

REPORT

This estimate amounting to Rs.37,28,055.00(Rupees Thirty Seven Lakhs Twenty Eight Thousand Fifty Five) Only) only has been framed to show the probable cost for "CONSTRUCTION OF ASSAM TYPE BUILDING FOR FORESTER QUARTER"

The following provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index.

"CONSTRUCTION OF ASSAM TYPE BUILDING FOR FORESTER QUARTER"

DETAILED ESTIMATE

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. For Post : 17 x 0.75 x 0.75 x 0.750 = 7.17 Cum For Tie- 3 3x9.20 } 73.60 x 0.33 x 0.25 = 6.07 Cum Total = 13.244 Cum	Cum	13.24	286.85	3,799.01
Item No.2 DSR/2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete. Qty: 1 x 11.00 x 9.20 x 0.600 = 60.72 Cum 1 x 4.75 x 1.80 x 0.60 = 5.13 Cum = 65.850 Cum	Cum	65.85	2116.20	139351.77
Item No.3 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-II) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) For Post : 17 x 0.75 x 0.75 x 0.100 = 0.96 Cum For Tie- 3 3x9.20 } 73.60 x 0.25 x 0.10 = 1.84 Cum Total = 2.796 Sqm	Sqm	2.796	6833.40	19,107.89
Item No.4 DSR/4.1	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-II) derived from natural sources : 4 graded stone aggregate 12.5mm nominal size derived from natural sources) For Post : 17.00 x 0.25 x 0.030 = 0.128 Sqm. For Tie- 73.60 x 0.03 = 2.21 Sqm. Total = 2.34 Sqm.	Sqm	2.34	370.85	866.12
Item No.5 DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-II) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources. In Sub-Structure up to plinth level : Footing - 17 x 0.75 x 0.750 x 0.280 = 2.678 Cum Post - 17 x 1.35 x 0.25 x 0.25 = 1.434 Cum Tie - 1 x 73.60 x 0.250 x 0.35 = 6.440 Cum In Super Structure From plinth level to 1st floor level : Post - 17 x 3.15 x 0.15 x 0.15 = 1.205 Cum Lintel - 1 x 73.60 x 0.150 x 0.15 = 1.656 Cum Total = 13.41 Cum	Cum	13.41	10185.05	1,36,609.53

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.6 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.1 Foundation, footing, bases of Columns etc. for mass concrete Footing - 17 x 4 x 1.60 x 0.25 = 27.20 Sqm Total = 27.20 Sqm	Sqm	27.20	307.95	8,376.24
Item No.7 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers Tie- 2 x 73.60 x 0.250 = 36.80 Total = 36.800 Sqm	Sqm	36.80	608.35	22,387.28
Item No.8 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts Column 17 x 4 x 3.150 x 0.15 = 32.13 Total = 32.130 Sqm	Sqm	32.13	804.25	25,840.55
Item No.9 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.21 Lintels, beams, plinth beams, girders, bressumers and cantilevers with water proof ply 12 mm thick 2 x 73.60 x 0.15 = 22.08 Total = 22.080 Sqm	Sqm	22.08	699.45	15,443.86
Item No.10 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:6 (1cement : 6 coarse sand). (For Brick on flat soling.) Column 17 x 0.8 x 0.75 = 9.56 Sqm Tie- 73.60 x 0.25 = 18.40 Sqm Floor= 1 x 11.00 x 9.20 = 101.20 Sqm Total = 129.16 Sqm	Sqm	129.16	898.20	1,16,013.76
Item No.11 DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand) 3 3x9.20 } 73.60 x 0.25 x 0.60 = 11.04 Cum Total = 11.04 Cum	Cum	11.04	6882.00	75,977.28
Item No.12 DSR/6.1	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor level. 6.13.1 Cement mortar 1:3 (1 cement :3 coarse sand) 3 3x9.20 } 73.60 x 3.15 = 231.84 Sqm. Deduction Door/window/Ventilator post & Lintel D 6 x 2.10 x 1.100 = 13.86 W 8 x 1.53 x 1.220 = 14.93 V 14 x 1.22 x 0.500 = 8.54 Post 17 x 0.13 x 3.150 = 6.80 Lintel 1 x 73.60 x 0.127 = 9.35 Total = 53.48 Sqm Net Total= (231.84-53.48) = 178.359 Sqm	Sqm	178.359	1043.10	1,86,046.43

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.13 DSR/13.8	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.8.1 1:3 (1 cement: 3 fine sand) 3 3x9.20 73.60 x 3.15 = 231.84 Sqm. Deduction Door/window/Ventilator post & Lintel D 6 x 2.10 x 1.100 = 13.86 W 8 x 1.53 x 1.220 = 14.93 V 14 x 1.22 x 0.500 = 8.54 Post 17 x 0.13 x 3.150 = 6.80 Lintel 1 x 73.60 x 0.127 = 9.35 Total = 53.48 Sqm Net Total= (231.84-53.48) = 178.359 Sqm	Sqm	178.36	421.50	75,178.38
Item No.14 DSR/13.10	15 mm cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement on the rough side of single or half brick wall. 3 3x9.20 73.60 x 3.15 = 231.84 Sqm. Deduction Door/window/Ventilator post & Lintel D 6 x 2.10 x 1.100 = 13.86 W 8 x 1.53 x 1.220 = 14.93 V 14 x 1.22 x 0.500 = 8.54 Post 17 x 0.13 x 3.150 = 6.80 Lintel 1 x 73.60 x 0.127 = 9.35 Total = 53.48 Sqm Net Total= (231.84-53.48) = 178.359 Sqm	Sqm	178.36	436.30	77,818.10
Item No.15 DSR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.1 Second class teak wood 8x5.20 } 118.36 x 0.13 x 0.13 = 2.00 Cum	Cum	2.00	131576.95	2,63,191.27
Item No.16/DS R/9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc. 9.3.1 Sal wood 8 x9.20m } 7x11.00 } 150.6 x 0.08 x 0.08 = 0.96384 Cum	Cum	0.96	97078.35	93,568.00
Item No.17/DS R/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).(undressedwoodworkinrooftruss,rafter,purlin) 9.1.3 Kiln seasoned and chemically treated hollock wood. Rafter = 4 x 13.00 x 0.10 x 0.10 = 0.520 Kg. Strut = 8 x 1.60 x 0.100 x 0.10 = 0.128 Kg. Tie = 8 x 3.00 x 0.10 x 0.05 = 0.120 Kg. Purlin = 9 x 7.70 x 0.08 x 0.05 = 0.260 Kg. Total = 1.028 Kg.	Cum	1.03	74199.70	76,268.02
Item No.18/DSR	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 9.5.1 Second class teak wood 9.5.1.1 35mm thick W = 8 x 1.20 x 1.00 = 9.60 Sqm V = 14 x 1.00 x 0.50 = 7.00 Sqm Total = 16.600 Sqm	Sqm	16.60	3704.45	61,493.87

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.19/DS R/13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on wall surface : 13.43.1 Water thinnable cement primer 2 X 178.359 = 356.718 Sqm	Sqm	356.72	131.45	46,890.62
Item No.20/DS R/21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item): 21.3.2 With float glass panes of 5.0 mm thickness (weight not less than 12.50kg/sqm) W = 8 x 1.00 x 0.70 = 5.60 Sqm V = 14 x 0.80 x 0.45 = 5.04 Sqm Total = 10.640 Sqm	Sqm	10.64	1325.55	14,103.85
Item No.21 DSR/5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. 5.22.1 Mild steel and Medium Tensile steel bars Footing 8 ϕ @ 125c/c 17 x 2 x 8.00 x 0.75 x 0.39 = 79.56 Kg Chajja 8 ϕ @ 125c/c 1 x 147 x 0.80 x 0.39 = 45.86 Kg For Lintel 10 ϕ 1 x 123 x 0.80 x 0.39 = 38.38 Kg 1 x 74 x 4.00 x 0.62 = 182.53 Kg Columns 12 ϕ , 4Nos 17 x 4 x 5.35 x 0.89 = 323.78 Kg Tie Beam 12 ϕ , 4 Nos. 1 x 4 x 73.60 x 0.89 = 262.02 Kg Stirrups : For Columns 8 ϕ @125c/c 0 425 x 0.55 x 0.22 = 51.43 Kg 0 181 x 1.15 x 0.22 = 45.79 Kg For Tie-Beam 8 ϕ @125c/c 0 737 x 1.10 x 0.22 = 178.35 Kg For Lintel 8 ϕ @125c/c 0 737 x 0.70 x 0.22 = 113.50 Kg Total = 1321.20 Kg Add 10%for Wastage = 132.12 Kg Gr. Total = 1453.32 Kg	Kg	1453.32	88.95	1,29,272.42
Item No.22/DS R/12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ² 1 x 13.00 x 11.20 = 145.600 Sqm	Sqm	145.60	978.00	1,42,396.80
Item No.23/DS R/12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 12.4.2 0.63 mm thick with zinc coating not less than 275 gm/m ² 1 x 13.00 = 13.000 Rm. Total = 13.000 Rm.	Rm.	13.00	750.85	9,761.05
Item No.24/DS R/12.4	Providing and fixing plain multipurpose cement board(Hight pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid seperately). 12.26.2 6 mm thick Cement bonded wood particle board as per IS:14276 1 x 11.00 x 9.2 = 101.2 Sqm	Sqm	101.20	751.30	76,031.56

Item No	Description of item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.25/DSR/13.50	<p>Applying priming coat: 13.50.1 With ready mixed pink or Gray primer of approved brand and manufacture on wood work (hard and soft wood)</p> <p>24 x 5.00 x 0.38 = 45.60 Sqm 43 x 5.20 x 0.38 = 84.97 Sqm 20 x 1.00 x 1.00 = 20.00 Sqm 86 x 1.21 x 0.60 = 62.44 Sqm 6 x 2.10 x 1.00 = 12.60 Sqm Total = 225.60 Sqm</p>	Sqm	225.60	61.45	13,863.37
Item No.26/DSR/13.62	<p>Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : 13.62.1 Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. Surface Area=225.60 Sqm.</p>	Sqm	225.60	191.40	43,180.61
Item No.27 DSR/9.96	<p>Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete 9.96.1 300mm x 16mm</p>	Each	1	260.30	260.30
Item No. 28/DSR/9.74	<p>Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :</p> <p>9.74.1 250x10 mm 9.74.3 150x10 mm 9.74.2 200x10 mm</p>	Each	12	374.35	4,492.20
		Each	6	232.30	1,393.80
		Each	16	300.55	4,808.80
Item No. 29/DSR/9.74	<p>Providing and fixing aluminium handles, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete :</p> <p>9.100.2 100 mm (For Door 9.100.2 100 mm (For Window</p>	Each	12	53.25	639.00
		Each	16	53.25	852.00
Item No. 30/DSR/10.19	Mild Steel Hook (For M.S. gate shutter hook & eye For window 100mm	Each	16	32.00	512.00
Item No. 31/SOR-2013-14/15.2.1	<p>Supplying fitting fixing anodized aluminum fitting of approved make , reasonable smooth, free from sharp rdge and counters , flaws and other defects and with counter sunk holes for wood screws including necessary screws etc complete. For fan light/ ventilation j) Fan light pivot</p>	Each	16	53.85	861.60
Item No. 32/SOR-2013-14/15.2.1	<p>Supplying fitting fixing anodized aluminum fitting of approved make , reasonable smooth, free from sharp rdge and counters , flaws and other defects and with counter sunk holes for wood screws including necessary screws etc complete. For fan light/ ventilation k) Fan light catcher</p>	Each	16	82.23	1,315.68
Item No.33 DSR/11.5	<p>62 mm thick cement concrete flooring with concrete hardener topping, under layer 50 mm thick cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) and top layer 12mm thick cement hardener consisting of mix 1:2 (1 cement hardener mix : 2 graded stone aggregate, 6mm nominal size) by volume, hardening compound mixed @ 2 litre per 50 kg of cement or as per manufacture's specifications. This includes cost of cement slurry, but excluding the cost of nosing of steps etc. complete.</p> <p>1 x 11.00 x 9.20 = 101.20 Sqm 1 x 4.75 x 1.80 = 8.55 Sqm Total = 109.75 Sqm</p>	Sqm	109.75	928.65	1,01,919.34

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.34/SO R 2013-14/9.9.2	Providing, fitting and fixing full panelled door Their 1st class local Wood (Gomari, Hollock, Bansum) (40mm thick) 6 x 2.1 x 1.000 = 12.600 Sqm Total = 12.600 Sqm	Sqm	12.60	5026.46	63,333.40
Item No.35/SO R 2013-14/9.4.1	Providing barge board of size 200mm x 20mm with 1st class local Hollock/Bonsumti mber including fitting and fixing with necessary wood screw etc. complete. 200mm x 200mm with 1st class etc. complete 1 x 10.64 = 10.64 Rm. 1 x 9.10 = 9.10 Rm. 2 x 2 x 13.00 = 52.00 Rm. Total = 71.74 Rm.	Rm.	71.74	349.75	25,091.07
Total cost of the works =					20,78,316.20
Total Cost for Toilet & Sanitary Work = Rs.					5,68,101.92
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					1,00,000.00
Total Cost for Internal Electrification add. 9% = Rs.					1,87,048.51
Total Cost =Rs.					30,81,037.44
21% Cost Index =					6,47,017.86
Grand Total =					37,28,055.30
Say = Rs.					37,28,055.00

(Rupees Thirty Seven Lakhs Twenty Eight Thousand Fifty Five) Only

Checked
[Signature]

: Estimate of Septic Tank and Soak Pit :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete. All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05
5.00		BRICK WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER :				
		Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70
TOTAL=Rs.						97570.20

: Calculation Sheet :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
						Total	14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
						Total	0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
						Total:	5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
						Total:	3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
						Total:	1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
						Total:	1.38
5.00	SHUTTERING :						
	ii)Scum Board	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
						Total:	3.24
6.00	PLASTERING :						

6.01	i)Long Wall	Sqm.	3.00		1.6	2	9.60
	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	For Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qty in qti.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

WDR

: Estimate of Toilet Block With Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum All works above plinth level to all level.	cum	7997.30	5.28	42220.25
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10080.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-II): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES				
		Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB				
		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	128.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyrifos/Lindane E.C. 20% with 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54
18.00		SANITARY:				
18.01	17.70	Wash Basin				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3392.85	2.00	6785.70
18.02	17.72	Towel Ring Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.				
			each	204.70	2.00	409.40
18.03	18.65	Soap Dish Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.				
			each	96.75	2.00	193.50
18.04	17.32	Mirror Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.1	Circular shape 450 mm dia	each	1248.60	2.00	2497.20
18.05	18.56	Pillar Cock Providing and fixing PTMT pillar cock of approved quality and colour.				
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	180.80	2.00	361.60
18.06	18.15	Bib Cock Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore	each	303.85	4.00	1215.40
18.07	18.58	GRATING Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1	Circular type				
	18.58.1.1	100 mm nominal dia	each	33.20	12.00	398.40
18.08		Stop Cock Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms				
	18.63		each	136.60	12.00	1639.20
18.09	17.2	EUROPEAN TYPE WATER CLOSET				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	17.2.1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
		W.C. pan with ISI marked white solid plastic seat and lid	each	5540.55	1.00	5540.55
18.10	17.1	INDIAN TYPE WATER CLOSET				
		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	5781.35	1.00	5781.35
18.11		URINALS				
		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	18546.45	2.00	37092.90
18.12	18.2	Piping				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing Polyethelene-Aluminum-Polyethelene PE-ALPE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
		Concealed work, including cutting chases and making good the wall etc.				
18.12(a)	18.2.1	1216 (16 mm OD) pipe metre	RM	513.75	50.00	25687.50
18.13		CPVC PIPES				
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, l/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
18.13(a)	18.8.2	20 mm nominal outer dia Pipes metre	RM	513.75	10.00	5137.50
18.13(b)	18.8.3	25 mm nominal outer dia Pipes metre	RM	626.05	10.00	6260.50
18.14	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
18.14(a)	18.9.6	50 mm nominal outer dia Pipes	Rm	811.85	15.00	12177.75
18.14©	18.9.9	100 mm nominal inner dia Pipes	Rm	2811.75	10.00	28117.50

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
			per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12
TOTAL=						568101.92


 2022-01-11

: Calculation Sheet :

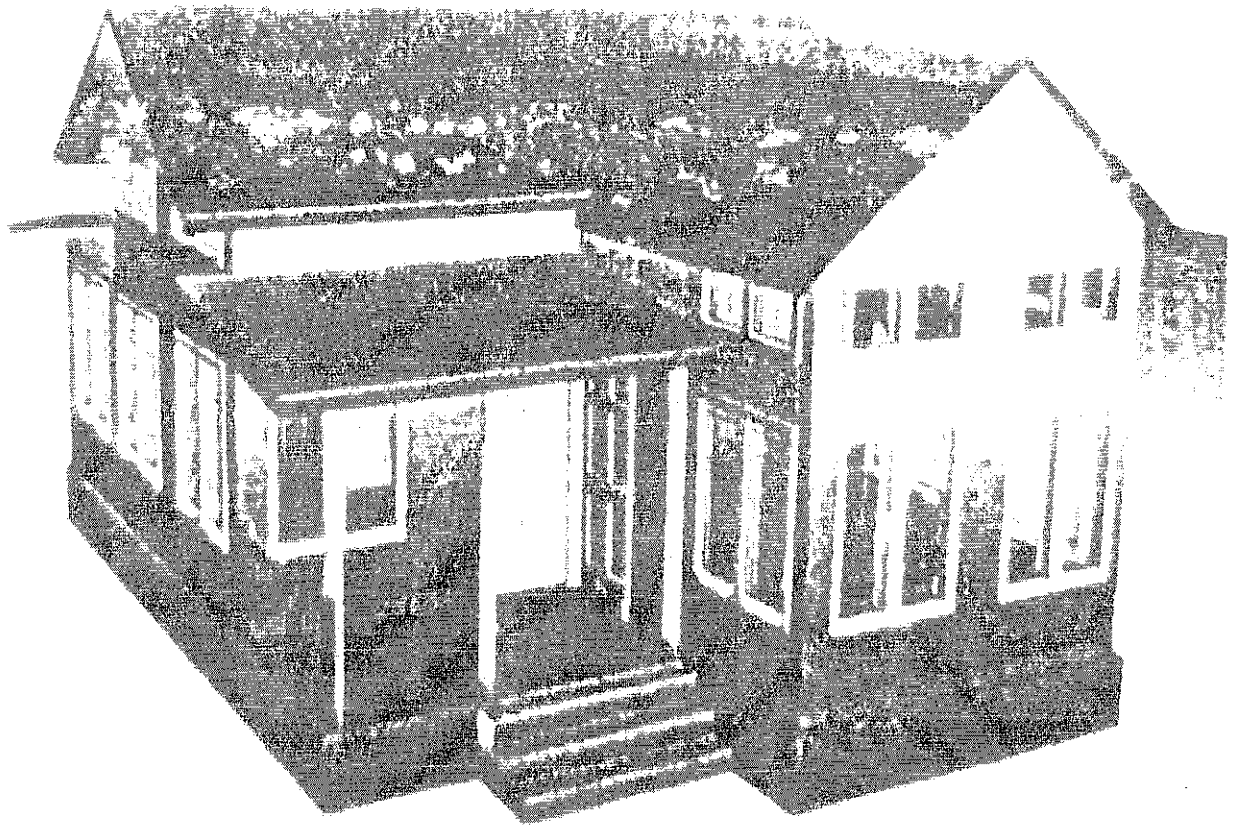
Sl.No.	Description of work	Unit	Length	Breadth	Heigth	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	1.1	0.30	0.30	1.00	0.99
						Total=	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total=	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total=	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total=	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total=	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total=	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total=	1.24
						Total=	5.28
3.02	RCC WORK FOR SUPPER						
	STRUCTURE						
	FOR COLUMNS						
	from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total=	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total=	3.30
5.00	SHUTTERING WORKS						
5.01	FOR SUBSTRUCTURE						

	For PCC						
	F1	Sqm	4.80		0.08	6.00	2.16
							2.16
	for footing						
	F1	Sqm	4.00		0.18	6.00	4.20
							4.20
	Bases of columns						
	C1	Sqm	1.10		1.25	4.00	5.50
	C2	Sqm	1.20		1.45	2.00	3.48
						Sub Total=	8.98
						Total=	15.34
5.02	FOR COLUMNS						
	for ground floor						
	C1	Sqm	1.10		3.30	4.00	14.51
	C2	Sqm	1.20		3.30	2.00	7.92
						Sub Total=	22.43
5.04	FOR TIE BEAM						
		Sqm	11.00	0.45		2.00	9.90
						Total=	9.90
5.05	FOR SLAB						
	1st floor Slab	SQM	2.40	1.80		1.00	4.32
						TOTAL=	4.32
6.00	BRICK WORKS						
6.01	FLAT BRICK SOILING						
	F1	Sqm	1.20	1.00		6.00	7.20
						Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00
						Sub Total=	38.60
						Total=	45.80
6.02	FULL BRICK WORK						
	FOR SUB STRUCTURE	cum	11.00	0.50	0.60	1.00	3.30
						Total=	3.30
6.03	HALF BRICK WORK						
		Sqm	11.00		3.30	1.00	36.30
						Total=	36.30
7.00	REINFORCEMENT						
	FOR FOOTING						
	F1						
	10#	KG	1.80	13.00	0.62	6.00	86.58
	10#	KG	1.80	13.00	0.62	6.00	86.58
	FOR COLUMNS						
	C1						
	16#	KG	3.80	8.00	1.58	6.00	287.95
	8#	KG	0.79	27.00	0.39	4.00	33.46
	FOR TIE BEAM						
	16#	KG	11.00	8.00	0.89	1.00	78.32

8.00	FLOORING					TOTAL=	607.62
8.01	Floor tile						
		sqm	3.50	2.00		2.00	14.00
						Total=	14.00
8.02	Wall tile						
		sqm	11.00	2.10		1.00	23.10
						Total=	23.10
8.03	TUNCH BRICK						
		sqm	3.10	3.30		2.00	20.46
						Total=	20.45
9.00	PLASTERING						
9.01	10MM THICK PLASTERING						
		Sqm	11.00	3.30		2.00	72.60
		Sqm	-2.10	0.90		6.00	-11.34
		Sqm	-1.20	1.20		2.00	-2.88
		Sqm	-0.90	0.60		4.00	-2.16
						Total=	56.22
10.00	WALL PUTTY						
	OVER 10MM THICK PLASTERING						
		Sqm	22.00	3.30		2.00	145.20
		Sqm	-2.10	0.90		6.00	-11.34
		Sqm	-1.20	1.20		2.00	-2.88
		Sqm	-0.90	0.60		4.00	-2.16
						Total=	128.82
	OVER 15MM THICK PLASTERING						
		Sqm	11.00	3.30		2.00	72.60
		Sqm	-2.10	0.90		6.00	-11.34
		Sqm	-1.20	1.20		2.00	-2.88
		Sqm	-0.90	0.60		4.00	-2.16
						Total=	56.22
						TOTAL=	185.04
11.00	PAINTING						
11.01	INSIDE PAINTING:						
		Sqm	11.00	3.30		2.00	72.60
		Sqm	-2.10	0.90		6.00	-11.34
		Sqm	-1.20	1.20		2.00	-2.88
		Sqm	-0.90	0.60		4.00	-2.16
						Total=	56.22
11.02	OUT SIDE PAINTING:						
	FOR WALLS						
		Sqm	11.00	3.30		1.00	72.60
		Sqm	-2.10	0.90		2.00	-3.78
		Sqm	-1.20	1.20		2.00	-2.88
		Sqm	-0.90	0.60		4.00	-2.16
						TOTAL=	63.78

655485/2022/NA

11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78



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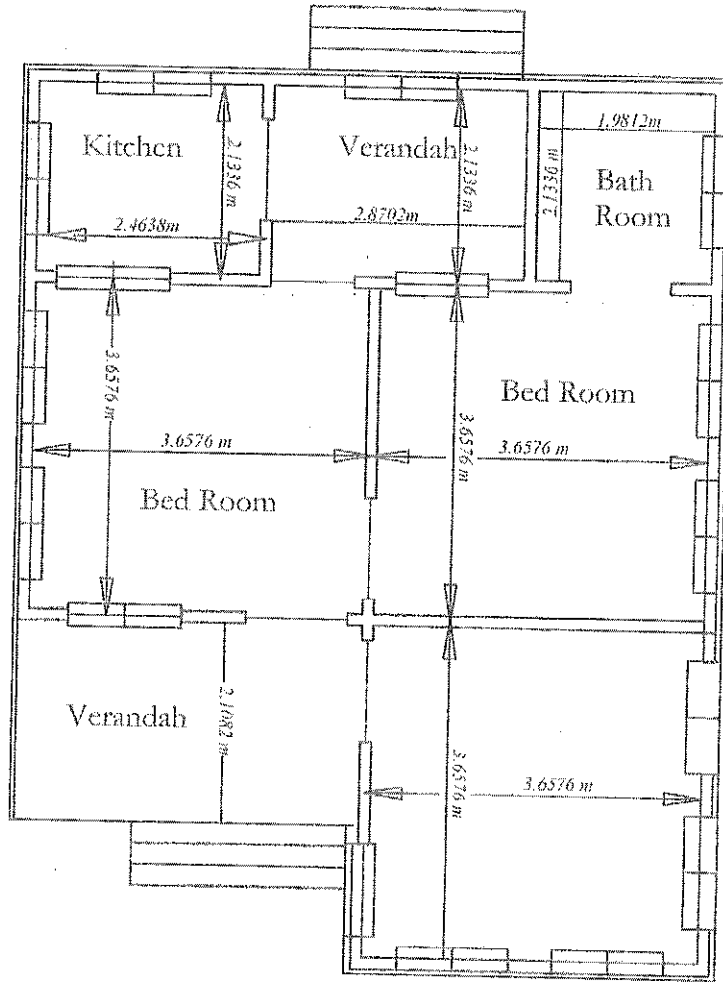
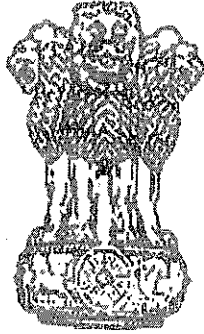


Fig :- Line Plan of Assam Type Forester Quarter

P. P. Das

GOVT. OF ASSAM



सत्यमेव जयते

ASSAM FOREST DEPARTMENT

: ESTIMATE :

NAME OF WORK :- "CONSTRUCTION OF ANTI-
POACHING CAMP"

Estimated Amount

Rs. 36,85,874.00

Name of Work :-- **NORMS FOR CONSTRUCTION OF ANTI-POACHING CAMP**

Estimated amount :- **Rs. 36,85,874.00**

REPORT

This estimate amounting to **Rs.36,85,874.00**(Rupees Thirty Six Lakhs Eighty Five Thousand Eight Hundred Seventy Four) only has been framed to show the probable cost for "**CONSTRUCTION OF ANTI-POACHING CAMP**"

The following Provisions have been made in this estimate -

1. Earth work in Excavation
2. P.C.C Work
3. Brick Soling
4. Form Work.
5. Reinforcement Work
6. Cement Concrete Work
7. Brick Work in Superstructure.
8. Plastering Work.
9. Painting Work

The rates of this estimate have been adopted from DSR(Bldg) 2021 including 21% Cost Index..

Name of Work :- "CONSTRUCTION OF ANTI-POACHING CAMP"

DETAILED ESTIMATE

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
A	Civil Works				
Item No.1 DSR/2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil.	Cum	69.34	286.85	19,890.18
Item No.2 DSR/4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 4.1.5 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	Sqm	1.73	6833.40	11,821.78
Item No.3 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:6 (1 cement : 6 coarse sand). (For Brick on flat soling.)	Sqm	17.28	898.20	15,520.90
Item No.4 DSR/5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 5.1.3 1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)	Cum	13.63	7945.65	1,08,299.21
Item No.5 DSR/5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 5.2.2 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources.	Cum	24.65	10185.05	2,51,061.48
Item No.6 DSR/5.9	Centering and shuttering including strutting, propping etc. and removal of form work for : 5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	169.80	608.35	1,03,297.83
Item No.7 DSR/4.1	Brick on edge flooring with bricks of class designation 7.5 on a bed of 12 mm cement mortar, including filling the joints with same mortar, with common burnt clay non modular bricks: 11.1.2 1:6 (1 cement : 6 coarse sand). (For Brick on flat soling.)	Sqm	123.26	898.20	1,10,712.13
Item No.8 DSR/11.3	Cement concrete flooring 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate) finished with a floating coat of neat cement, including cement slurry, but excluding the cost of nosing of steps etc. complete. 11.3.1 40 mm thick with 20 mm nominal size stone aggregate	Sqm	76.89	545.00	41,905.05

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.9 DSR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). 9.1.1 Second class teak wood	Cum	1.52	131576.95	1,99,996.96
Item No.10/D SR/9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). (undressedwoodworkinrooftruss,rafter,purlin) 9.1.3 Kiln seasoned and chemically treated hollock wood.	Cum	1.98	74199.70	1,46,915.41
No.11/DS	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately) 9.5.1 Second class teak wood 9.5.1.1 35mm thick	Sqm	19.34	3704.45	71,644.06
Item No.12 DSR/12.2 4	Providing and fixing insulating board ceiling of approved quality with necessary nails etc. complete (frame work to be paid separately) : 12.24.1 Natural colour insulating board 12.24.1.1 12 mm thick sqm 774.15	Sqm	138.80	774.15	1,07,452.02
Item No.13/D SR/13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand)	Sqm	339.69	339.70	1,15,392.69
Item No.14/D SR/12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm	136.67	978.00	1,33,663.26
Item No.15/D SR/12.4	Providing ridges or hips of width 60 cm overall width plain G.S. sheet fixed with polymer coated J or L hooks, bolts and nuts 8 mm dia G.I. limpet and bitumen washers complete. 12.4.2 0.63 mm thick with zinc coating not less than 275 gm/m ²	Rm.	10.20	750.85	7,658.67
Item No.16/D SR/13.62	Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade : 13.62.1 Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture. Surface Area=225.60 Sqm.	Sqm	398.18	191.40	76,211.65

Item No	Description of Item	Unit	Qty.	Rate	Amount in Rs.
1	2	3	4	5	6
Item No.17 DSR/5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete.	Kg	2634.00	88.95	2,34,294.30
Item No.18 DSR/6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in: 6.1.2 Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	13.16	6882.00	90,567.12
Item No.19 DSR/6.1	Cement plaster 1:3 (1 cement: 3 coarse sand) finished with a floating coat of neat cement. 13.9.2 20 mm cement plaster	Sqm	26.46	507.85	13,437.71
Item No.20 DSR/8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm.	Sqm	40.82	1063.45	43,410.03
Item No.21 DSR/10.2 6	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer. 10.26.3 G.I. pipes	Kg	233.53	180.20	42,082.29
Item No.22/D SR/9.48	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. 9.48.2 Fixed to openings /wooden frames with rawl plugs screws etc.	Kg.	292.20	197.70	57,767.94
Item No.23 DSR/13.5	Applying priming coat: 13.50.2 With ready mixed aluminium primer of approved brand and manufacture on resinous wood and plywood	Sqm	124.25	62.95	7,821.54
Item No.24 DSR/13.5 8	Providing and applying two coats of fire retardant paint on cleaned wood / ply surface @ 3.5 sqm per litre per coat including preparation of base surface as per recommendations of manufacturer to make the surface fire retardant.	Sqm	124.25	285.80	35,510.65
Total cost of the works =					20,46,334.86
Total Cost for Toilet & Sanitary Work = Rs.					5,68,101.92
Total Cost for Septic Tank & Soak Pit Work = Rs.					97,570.20
Total Cost for Tube Well Boring/Drilling Fitting & Fixing = Rs.					50,000.00
Total Cost for Water Supply (L/S) = Rs.					1,00,000.00
Total Cost for Internal Electrification add 9% = Rs.					1,84,170.14
Total Cost =Rs.					30,46,177.13
Cost Index 21% =					6,39,697.20
Grand Total =					36,85,874.33
Say = Rs.					36,85,874.00

(Rupees Thirty Six Lakhs Eighty Five Thousand Eight Hundred Seventy Four) Only

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: Estimate of Septic Tank and Soak Pit :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	14.60	4188.01
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) ; 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	0.81	5535.05
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	7997.30	1.38	11066.26
4.00	5.90	SHUTTERING AND FORM WORK				
4.01	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	3.24	1971.05
5.00		BRICK WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
5.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	5.40	3959.82
5.02	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	6882.00	3.53	24312.73
5.03	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement :4 coarse sand)	sqm	1018.05	1.15	1170.76
6.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
6.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	228.80	20511.74
7.00		PLASTERING				
	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
7.01	13.2.1	1:4 (1 cement: 4 fine sand)	sqm	339.70	54.41	18483.08
7.02	13.18	Neat cement punning	sqm	67.80	54.41	3689.00
8.00	19.18	MANHOLE COVER : Supplying and fixing C.I. cover without frame for manholes :				
	19.18.1	455x610 mm rectangular C.I. cover (light duty) the weight of the cover to be not less than 23 kg	each	1341.35	2.00	2682.70

TOTAL=Rs. 97570.20

: Calculation Sheet :

SL.No.	Description of work	Unit	Length	Width	Depth/Height	Nos.	Area/Volume
1.00	Earth work in excavation						
		Cum	4.00	2.00	1.825	1	14.60
Total							14.60
2.00	P.C.C. WORK :						
	For						
		Cum	3.00	1.80	0.15	1	0.81
Total							0.81
3.00	BRICK WORK:						
3.01	Flat Brick Soling						
		Sqm.	3.00	1.800	1	1	5.40
Total:							5.40
3.02	Full Brick Work						
	Long Wall	Cum	3.00	0.23	1.6	2	2.21
	Short Wall	Cum	1.80	0.23	1.6	2	1.32
Total:							3.53
3.03	Half Brick work						
	Baffle Wall	Sqm.	1.00		1.15	1	1.15
Total:							1.15
4.00	R.C.C. WORK :						
	i)Top Slab	Cum	3.00	1.8	0.1	1	0.54
	ii)Scum Board	Cum	1.00	0.075	0.45	1	0.03
	iii)For Floor	Cum	3.00	1.80	0.15	1	0.81
Total:							1.38
5.00	SHUTTERING :						
	ii)Scum Boar	Sqm.	1.00		0.45	4	1.80
	iii)Top Slab						
		Sqm.	3.00		0.15	2	0.90
		Sqm.	1.80		0.15	2	0.54
Total:							3.24
6.00	PLASTERING :						

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6.01	i)Long Wall	Sqm.	3.00		1.6	2	9.60
	ii)Short Wall	Sqm.	1.80		1.6	2	5.76
	iii)Baffle Wall	Sqm.	1.00		1.15	2	2.30
	iv)Scum Board	Sqm.	1.00		0.45	2	0.90
	v)Top Slab	Sqm.	3.00		0.15	2	0.90
	vi)For Floor	Sqm.	3.00		0.15	1	0.45
Total:							19.91
7.00	IRON AND STEEL WORK :						
7.01	Tor Steel						
	Top Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Bottom Slab						
	10#	Kg.	3.00	15	.62	2	55.80
	10#	Kg.	1.8	24	0.62	2	53.57
	Scum Board						
	8#	Kg.	0.45	4	0.39	1	0.70
	8#	Kg.	1.00	24	0.39	1	9.36
Total:							228.80
Qtyl in qtl.:							2.29
8.00	C.I. MANHOLE COVER :	No.				2	2.00

WKS

: Estimate of Toilet Block With Sanitary :

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
1.00		EARTH WORK :				
1.01		Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m.				
	2.8.1	All kinds of soil	cum	286.85	9.63	2762.37
1.02	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	cum	253.95	4.20	1066.59
2.00	4.1	PCC WORKS				
2.01		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :				
	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) : 6 graded stone aggregate 20 mm nominal size)	cum	6833.40	1.15	7858.41
3.00		RCC WORK				
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work; using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength; including pumping of concrete to site of laying, curing, carriage for all leads; but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge; for the following grades of concrete All works upto plinth level				
3.01	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum All works above plinth level to all level.	cum	7997.30	5.28	42220.25
3.02	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	cum	10080.15	1.86	18782.80
4.00		DPC WORK				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
4.01	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	370.85	3.30	1223.81
5.00	5.90	SHUTTERING AND FORM WORK Centering and shuttering including strutting, propping etc. and removal of form for				
5.01	5.9.1	Foundations, footings, bases of columns, etc. for mass concrete	sqm	307.95	15.34	4722.41
5.02	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts (including circular columns)	sqm	804.25	22.43	18036.75
5.03	5.9.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	608.35	9.90	6022.67
5.05	5.9.9	Arches, domes, vaults, inclined slab up to 6 m span	sqm	1826.25	4.32	7889.40
6.00		BRICK WORK				
6.01	11.2	Dry brick on edge flooring in required pattern with bricks of class designation 7.5 on a bed of 12 mm mud mortar, including filling joints with Jamuna sand, with common burnt clay non modular bricks.	sqm	733.30	49.10	36005.03
6.04	6.13	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to all levels.				
	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	sqm	1018.05	36.30	36955.22
7.00	5.22	IRON AND STEEL WORK				
		Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto all levels.				
7.01	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	89.65	607.62	54473.07
8.00		FLOORING				
8.01	8.31	WALL TILES				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineerin- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	Sq.m	1063.45	23.10	24565.70
8.02		ANTISKID TILES Providing and laying Vitrified tiles in floor in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS:15622, of approved brand & manufacturer, in all colours and shade, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) jointing with grey cement slurry @3.3 kg/sqm including grouting the joints with white cement and matching pigments etc. The tiles must be cut with the zero chipping diamond cutter only . Laying of tiles will be done with the notch trowel, plier, wedge, clips of required thickness, leveling system and rubber mallet for placing the tiles gently				
	11.41A.3	Glazed Vitrified tiles Matt/Antiskid finish of size				
	11.41A.3.1	Size of Tile 600 x 600 mm	sqm	1311.05	14.00	18354.70
8.03	8.20	GRANITE WORKS FOR SLAB				
		Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edges to give high gloss finish etc. complete at all levels.				
	8.2.2	Granite stone slab colour black, Cherry/Ruby red				
	8.2.2.1	Area of slab upto 0.50 sqm	Sq.m	4679.35	2.65	12400.28
8.04	8.3	GRANITE MOULDING				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing edge moulding to 18 mm thick marble stone counters, Vanities etc., including machine polishing to edge to give high gloss finish etc. complete as per design approved by Engineer-in-Charge.				
	8.3.2	Granite work	Rm	418.85	4.43	1853.41
9.00		PLASTERING				
9.01	13.1	12 mm cement plaster of mix :				
	13.1.1	1:4 (1 cement: 4 fine sand)	sqm	294.85	56.22	16576.47
10.00		WALL PUTTY:				
10.01	13.80	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	123.85	128.82	15954.36
11.00		PAINTING				
11.01		Wall painting with premium acrylic emulsion paint of interior grade, having VOC (Volatile Organic Compound) content less than 50 grams/ litre of approved brand and manufacture, including applying additional coats wherever required to achieve even shade and colour				
	13.82.2	Two coats	sqm	121.55	120.00	14586.00
11.02		Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content.				
	13.85.3	With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre	sqm	64.45	120.00	7734.00
11.03	13.50	Applying priming coat:				
	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	sqm	61.45	13.86	851.70
11.04	13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture	sqm	144.90	13.86	2008.31
11.05	13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade:				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
	13.47.1	New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	sqm	162.35	5.04	818.24
12.00		DOOR FRAME				
12.01	9.10	WOOD WORK				
		Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
	9.1.2	(a) With sal wood	cum	106720.85	0.11	12246.22
13.00	9.20	DOOR WORKS :				
13.01		Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.				
	9.20.1	35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	sqm	3086.10	5.04	15553.94
14.00	21.10	WINDDOWS:				
14.01		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
	21.1.1	For fixed portion				
	21.1.1.1	Anodised aluminium (anodised transparent or dyed to required shade according to IS: 1868, Minimum anodic coating of grade AC 15)	kg	433.95	16.20	7029.99

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
14.02	21.3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
	21.3.1	With float glass panes of 4.0 mm thickness (weight not less than 10kg/sqm)	sqm	1019.800	1.08	1101.38
15.00		HARDWARE FITTINGS :				
15.01	9.74	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete :				
	9.74.1	250x10 mm	each	374.35	5.00	1871.75
15.02	9.66	Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
	9.66.1	125 mm	each	35.20	5.00	176.00
15.03	9.75	Providing and fixing bright finished brass door latch with necessary screws etc. complete :				
	9.75.1	300x16x5 mm	each	273.20	5.00	1366.00
16.00		ANTITERMITE TREATMENT :				
16.01	2.35.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor: 2.35.3.1 With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	256.15	14.00	3586.10
17.00	4.17	PLINTH PROTECTION				
17.01		Making plinth protection 50mm thick of cement concrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) over 75mm thick bed of dry brick ballast 40 mm nominal size, well rammed and consolidated and grouted with fine sand, including necessary excavation, levelling & dressing & finishing the top smooth.	Sqm	681.65	11.36	7743.54
18.00		SANITARY:				
18.01	17.70	Wash Basin				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require:				
	17.7.1	White Vitreous China Wash basin size 630x450 mm with a pair of 15 mm C.P. brass pillar taps	each	3392.85	2.00	6785.70
18.02	17.72	Towel Ring Providing and fixing PTMT towel ring trapezoidal shape 215 mm long, 200 mm wide with minimum distances of 37 mm from wall face with concealed fittings arrangement of approved quality and colour, weighing not less than 88 gms.	each	204.70	2.00	409.40
18.03	18.65	Soap Dish Providing and fixing PTMT soap Dish Holder having length of 138mm, breadth 102mm, height of 75mm with concealed fitting arrangements, weighing not less than 106 gms.	each	96.75	2.00	193.50
18.04	17.32	Mirror Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing :				
	17.32.1	Circular shape 450 mm dia	each	1248.60	2.00	2497.20
18.05	18.56	Pillar Cock Providing and fixing PTMT pillar cock of approved quality and colour.				
	18.56.1	15 mm nominal bore, 107 mm long, weighing not less than 110 gms	each	180.80	2.00	361.60
18.06	18.15	Bib Cock Providing and fixing brass bib cock of approved quality :				
	18.15.1	15 mm nominal bore	each	303.85	4.00	1215.40
18.07	18.58	GRATING Providing and fixing PTMT grating of approved quality and colour.				
	18.58.1 18.58.1.1	Circular type 100 mm nominal dia	each	33.20	12.00	398.40
18.08	18.63	Stop Cock Providing and fixing PTMT angle stop cock 15 mm nominal bore, weighing not less than 85 gms	each	136.60	12.00	1639.20
18.09	17.2	EUROPEAN TYPE WATER CLOSET				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required :				
	17.2.1	W.C. pan with ISI marked white solid plastic seat and lid	each	5540.55	1.00	5540.55
18.10	17.1	INDIAN TYPE WATER CLOSET				
		Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100 mm sand cast Iron P or S trap, 10 litre low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required:				
	17.1.1	White Vitreous china Orissa pattern W.C. pan of size 580x440 mm with integral type foot rests	each	5781.35	1.00	5781.35
18.11		URINALS				
		Providing and fixing white vitreous china flat back half stall urinal of size 580x380x350 mm with white PVC automatic flushing cistern, with fittings, standard size C.P. brass flush pipe, spreaders with unions and clamps (all in C.P. brass) with waste fitting as per IS : 2556, C.I. trap with outlet grating and other couplings in C.P. brass, including painting of fittings and cutting and making good the walls and floors wherever required :				
	17.5.3	Range of three half stall urinals with 10 litre P.V.C. automatic flushing cistern	each	18546.45	2.00	37092.90
18.12	18.2	Piping				

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
		Providing and fixing Polyethelene-Aluminium-Polyethelene PE-ALPE Composite Pressure Pipes conforming to IS - 15450, U.V. stabilized with carbon black having thermal stability for hot & cold water supply, capable to withstand temperature up to 80°C, including all special fittings of composite material (engineering plastic blend and brass inserts wherever required) e.g. elbows, tees, reducers, couplers & connectors etc., with clamps at 1.00 metre spacing. This includes the costs of cutting chases and including testing of joints complete as per direction of the engineer in charge.				
		Concealed work, including cutting chases and making good the wall etc.				
18.12(a)	18.2.1	1216 (16 mm OD) pipe metre	RM	513.75	50.00	25687.50
18.13		CPVC PIPES				
		Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply, including all CPVC plain & brass threaded fittings, i/c fixing the pipe with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in Charge.				
		Concealed work, including cutting chases and making good the walls etc.				
18.13(a)	18.8.2	20 mm nominal outer dia Pipes metre	RM	513.75	10.00	5137.50
18.13(b)	18.8.3	25 mm nominal outer dia Pipes metre	RM	626.05	10.00	6260.50
18.14	18.9	Providing and fixing Chlorinated Polyvinyl Chloride (CPVC) pipes, having thermal stability for hot & cold water supply including all CPVC plain & brass threaded fittings This includes jointing of pipes & fittings with one step CPVC solvent cement, trenching, refilling & testing of joints complete as per direction of Engineer in Charge. External work				
18.14(a)	18.9.6	50 mm nominal outer dia Pipes	Rm	811.85	15.00	12177.75
18.14@	18.9.9	100 mm nominal inner dia Pipes	Rm	2811.75	10.00	28117.50

Sl. No.	DSR-2021	Description of work	Unit	Rate	Quantity	Amount
18.15	18.48	WATER TANK: Providing and placing on terrace (at all floor levels) polyethylene water storage tank, IS : 12701 marked, with cover and suitable locking arrangement and making necessary holes for inlet, outlet and overflow pipes but without fittings and the base support for tank.				
			per litre	9.70	1000.00	9700.00
12.10	12.1	SHEET ROOFING 12.1 Providing corrugated G.S. sheet roofing including vertical / curved surface fixed with polymer coated J or L hooks, bolts and nuts 8 mm diameter with bitumen and G.I. limpet washers or with G.I. limpet washers filled with white lead, including a coat of approved steel primer and two coats of approved paint on overlapping of sheets complete (up to any pitch in horizontal/ vertical or curved surfaces), excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required. 12.1.3 0.63 mm thick with zinc coating not less than 275 gm/ m ²	Sqm.	978	15.04	14709.12
TOTAL=						568101.92

: Calculation Sheet :

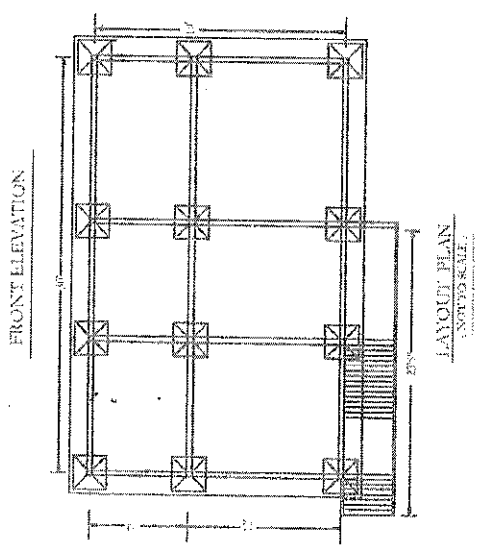
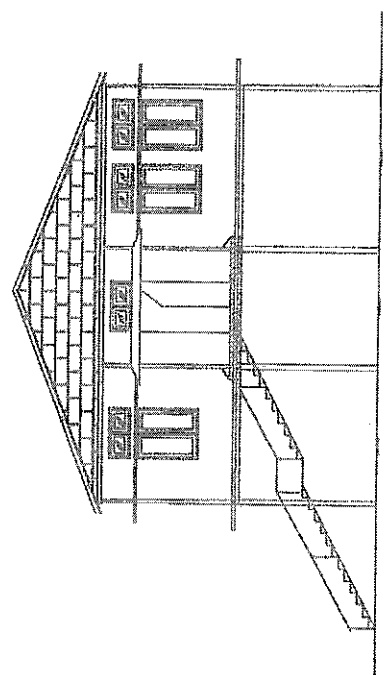
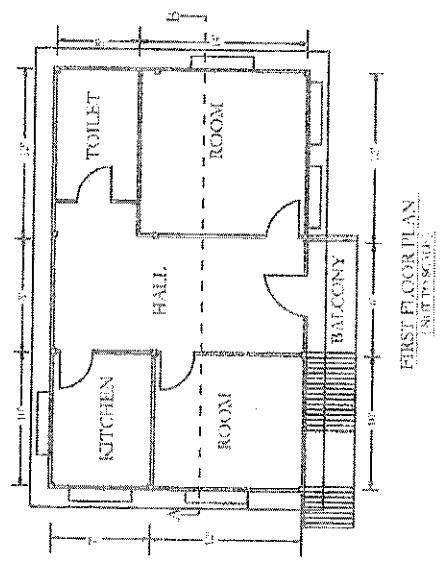
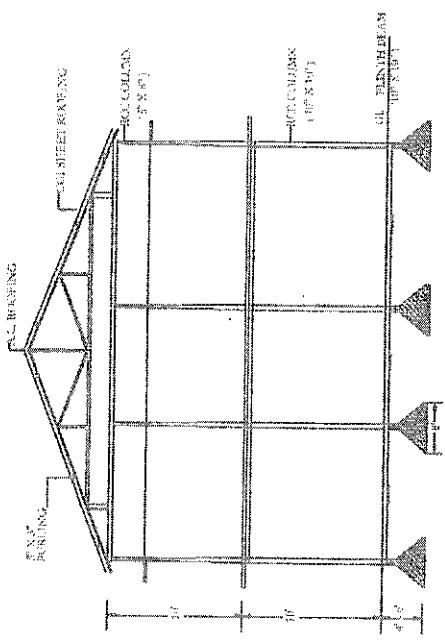
Sl.No.	Description of work	Unit	Length	Breadth	Height	Nos.	Quantity
1.00	EARTH WORK :						
1.01	EARTH WORK IN EXCAVATION:						
	A) For Footing:						
	F1	cum	1.20	1.20	1.00	6.00	8.64
	b) For Tie Beam:						
		Cum	11	0.30	0.30	1.00	0.99
						Total=	9.63
1.02	EARTH FILLING:						
	For Plinth	cum	3.50	2.00	0.60	1.00	4.20
						Total=	4.20
2.00	PCC WORKS:						
2.01	a) For Footing:						
	F1	cum	1.00	1.00	0.08	6.00	0.45
						Total=	0.45
2.02	For Floor	sqm	3.50	2.00	0.10	0.10	0.70
						Total=	0.70
3.00	RCC WORKS:						
3.01	FOR SUB STRUCTURE						
	(a) 1:1.5:3						
	For Footing:						
	F1	cum	1.00	1.00	0.18	6.00	1.05
		cum	1.00		0.38	6.00	2.25
						Sub Total=	3.30
	Bases of columns						
	C1	cum	0.10		1.25	4.00	0.48
	C2	cum	0.30	0.30	1.45	2.00	0.26
						Sub Total=	0.74
	For Tie Beam:						
		Cum	11.00	0.25	0.45	1.00	1.24
						Sub Total=	1.24
						Total=	5.28
3.02	RCC WORK FOR SUPPER STRUCTURE						
	FOR COLUMNS						
	from pl to 1st floor						
	C1	cum	0.10		3.30	4.00	1.27
	C2	cum	0.30	0.30	3.30	2.00	0.59
						Sub Total=	1.86
4.00	DPC						
		SQM	11.00	0.30	1.00	1.00	3.30
						Total=	3.30
5.00	SHUTTERING WORKS						
5.01	FOR SUBSTRUCTURE						

	For PCC						
	F1	Sqm	4.80		0.08	6.00	2.16
							2.16
	for footing						
	F1	Sqm	4.00		0.18	6.00	4.20
							4.20
	Bases of columns						
	C1	Sqm	1.10		1.25	4.00	5.50
	C2	Sqm	1.20		1.45	2.00	3.48
						Sub Total=	8.98
						Total=	15.34
5.02	FOR COLUMNS						
	for ground floor						
	C1	Sqm	1.10		3.30	4.00	14.51
	C2	Sqm	1.20		3.30	2.00	7.92
						Sub Total=	22.43
5.04	FOR TIE BEAM						
		Sqm	11.00	0.45		2.00	9.90
						Total=	9.90
5.05	FOR SLAB						
	1st floor Slab	SQM	2.40	1.80		1.00	4.32
						TOTAL=	4.32
6.00	BRICK WORKS						
6.01	FLAT BRICK SOILING						
	F1	Sqm	1.20	1.00		6.00	7.20
						Sub Total=	7.20
	FOR TIE BEAM	Sqm	11.00	0.35		2.00	31.60
	FOR PLINTH	Sqm	3.50	2.00		1.00	7.00
						Sub Total=	38.60
						Total=	45.80
6.02	FULL BRICK WORK						
	FOR SUB STRUCTURE	cum	11.00	0.50	0.60	1.00	3.30
						Total=	3.30
6.03	HALF BRICK WORK						
		Sqm	11.00		3.30	1.00	36.30
						Total=	36.30
7.00	REINFORCEMENT						
	FOR FOOTING						
	F1						
	10#	KG	1.80	13.00	0.62	6.00	86.58
	10#	KG	1.80	13.00	0.62	6.00	86.58
	FOR COLUMNS						
	C1						
	16#	KG	3.80	8.00	1.58	6.00	287.95
	8#	KG	0.79	27.00	0.39	4.00	33.46
	FOR TIE BEAM						
	16#	KG	11.00	8.00	0.89	1.00	78.32

	B#	KG	1.00	88.00	0.39	1.00	34.73
						TOTAL=	607.62
8.00	FLOORING						
8.01	Floor tile	sqm	3.50	2.00		2.00	14.00
						Total=	14.00
8.02	Wall tile	sqm	11.00		2.10	1.00	23.10
						Total=	23.10
8.03	TUNCH BRICK	sqm	3.10		3.30	2.00	20.46
						Total=	20.46
9.00	PLASTERING						
9.01	10MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
10.00	WALL PUTTY						
	OVER 10MM THICK PLASTERING	Sqm	22.00		3.30	2.00	145.20
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	128.82
	OVER 15MM THICK PLASTERING	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
						TOTAL=	185.04
11.00	PAINTING						
11.01	INSIDE PAINTING:	Sqm	11.00		3.30	2.00	72.60
		Sqm	-2.10		0.90	6.00	-11.34
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						Total=	56.22
11.02	OUT SIDE PAINTING:						
	FOR WALLS	Sqm	11.00	3.30	1.00	2.00	72.60
		Sqm	-2.10		0.90	2.00	-3.78
		Sqm	-1.20		1.20	2.00	-2.88
		Sqm	-0.90		0.60	4.00	-2.16
						TOTAL=	63.78

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11.03	STEEL PAINT						
		Sqm	1.20	1.20		2.00	2.88
		Sqm	0.90	0.60		4.00	2.16
						Total=	5.04
11.04	WOOD PAINT						
		Sqm	2.10	0.90		4.00	7.56
		Sqm	2.10	0.75		4.00	6.30
						Total=	13.86
12.00	ANTITERMITE TREATMENT						
12.01		SQM	8.00	5.25		1.00	42.00
						Total=	42.00
13.00	PLINTH PROTCTION						
13.01		SQM	11.00	0.75		1.00	8.25
						Total=	8.25
14.00	SURFACE DRAIN						
14.01		RM	26.50			1.00	26.50
						Total=	26.50
15.00	GRILL						
15.01		KG	1.20	1.20	35.00	2.00	100.80
		KG	0.90	0.60	35.00	2.00	37.80
						Total=	138.60
16.00	WINDOWS						
16.01		KG	1.20	1.20		1.00	1.44
		KG	0.90	0.60		1.00	0.54
						Total=	1.98
17.00	WOOD WORKS						
17.01		KG	5.10	0.15	0.08	2.00	0.11
						Total=	0.11
18.00	DOOR						
18.01		Sqm	2.10	0.90		2.00	3.78
						Total=	3.78



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GOVERNMENT OF ASSAM
FOREST DEPARTMENT, ASSAM




**STANDARD OPERATING PROCEDURES (SOP) FOR CARRYING
OUT PLANTATIONS UNDER STATE CAMPA, ASSAM**


Sch
Asst. Principal Chief Conservator of Forests &
Chief Executive Officer, State CAMPA Assam
Lanka Bazar, Jalukbari, Guwahati-14

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 Addl. Principal Conservator of Forests &
 Chief Executive Officer, State CAMPA, Assam
 Lakhshmet, Jorhat, Guwahati-14

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 Addl. Principal Chief Conservator of Forest
 Chief Executive Officer, State CAMPA Assm
 Lakhishwar, Jakhbari, Guwahati-14

INTRODUCTION

COMPENSATORY AFFORESTATION FUND MANAGEMENT AND PLANNING AUTHORITY (CAMPA)

The FC Act, 1980 envisages Compensatory Afforestation (CA) in lieu of forest land diverted for non-forestry purposes. In the beginning State Government used to collect money from the user agencies against Compensatory Afforestation. In 2001, it came to notice of Supreme Court that only around 30% of the funds collected was utilized by the State Governments for Compensatory Afforestation.

The Hon'ble Supreme Court on 29.10.2002 in T. N. Godavarman – vs – Union of India directed that a Compensatory Afforestation Fund (CAF) be created in which all the monies received from the user agencies towards Compensatory Afforestation, additional Compensatory Afforestation, penal Compensatory Afforestation, Net Present Value (NPV) of the diverted forest land, Catchment Area Treatment (CAT) Plan etc. shall be deposited. It was also directed that Union of India shall frame comprehensive rules regarding Constitution of a body, i.e. Compensatory Afforestation Fund Management & Planning Authority (CAMPA) for management of Compensatory Afforestation Fund (CAF).

TYPES OF PLANTATION

Plantations carried out under State CAMPA, Assam include those under Compensatory Afforestation which are Site Specific Plantation and those under NPV component.

Site Specific Plantation

The Site Specific Plantation (Compensatory Afforestation) is the main mandate of CAMPA. The plantation is carried out against the diversion of forest land for non forestry purposes, in some cases it is done in non-forest land and in some other cases, it is carried out in degraded forest land. State CAMPA, Assam has specific norms for implementation of the plantation.

The following types of plantations are generally carried out under NPV component.

Aided Natural Regeneration

ANR is a simple, low-cost restoration method that can effectively enhance the productivity and ecosystem functions of deforested or degraded lands. The method aims to accelerate, rather than replace, natural succession processes by removing or reducing barriers to natural regeneration such as soil degradation, competition with weedy species, and recurring disturbances (e.g. fire, grazing and wood harvesting).

Artificial Regeneration (AR)

Artificial regeneration. Artificial regeneration is accomplished by the planting of seedlings (the most common method) or by the direct planting of seeds. The most important decision made in artificial

regeneration is the selection of the species used in each new stand. The species chosen should be adapted to the site.

Sal Coppice Management

The Sal Coppice Management is restoration of sal trees besides vacancy filling in the degraded areas. It is a type of Aided Natural Regeneration (ANR).

Apurugiya Brikha Plantation

The objective of Apurugiya Brikha Plantation is to maintain the germ-plasm of rare indigenous medicinal tree species like leteku, poniyal, thekera, dhagnala, bandordima, bhatghila, dhuna, dimoru, naga tenga, etc. This plantation is done under 5 ha. of blocks which includes a site nursery of 1 ha. for raising of saplings.

Sahitya Manishi Upabon

There has been mention of various plant species in different Assamese literature. Srimanta Sankardev mentioned extensively about various plant species while describing "Divya Upaban" in *Kirtana*. It indicates that the writers are concerned and deeply associated with plant kingdom. Forest department carries out plantation activities, both inside and outside recorded forest areas across the state. In this regard, for conservation of rare and endangered indigenous species, plantations may be taken up in the name of eminent literary personalities of the district/state. Under the provision 5(2)(m) of 'Management of biological diversity and biological resources' of CAMPA Rules, 2018, plantation and conservation of rare and endangered indigenous plant diversity has attempted by establishing Biodiversity Parks in the name of "Sahitya Manishi Upabon" in 24 different districts of the state. This has been done for giving respect to the various literary personalities and other eminent writers of the state. At the entrance of each Biodiversity Park (Sahitya Manishi Upabon) there is a signage of "Asom Sangeet", to convey a message that without conservation of our indigenous species we cannot have an Assam as depicted in "Asom Sangeet". The area of *Sahitya Manishi Upabon* is approximately 3 ha and about 1000 different plant species (Tree, Shrub, Herb, Bamboo, Creeper, Climber etc) have been aimed to be planted in each *Sahitya Manishi Upabon*.

Month-wise Calender for Plantation Activities (According to FY)

Activities	Starting Year	1st year	2nd year	3rd year	4th year	5th year	6th Year	7th Year	8th Year	9th Year	10th Year
Advanced work including site nursery	Site nursery	Apr-Mar	Apr-Mar								
	Survey & demarcation	Oct									
	Jungle clearing & Slash disposal	Nov-Dec									
	Fencing & Infrastructure activities	Jan-Feb									
	Lining & Stacking	Feb									
	Making inspection paths	Feb									
Creation	Soil working & Pitting	Feb									
	Planting & Seedlings	Mar- May									
Maintenance	1st weeding	June-July	April	April	April	April					
	Vacancy filling		Apr-May	Apr-May							
	2nd Weeding	July-Aug	June-July	June-July	June-July	June-July					
	3rd Weeding	Sept-Oct	Aug-Sept	Aug-Sept	Aug-Sept	Aug-Sept					
	4th Weeding	Nov	Oct-Nov	Oct-Nov							
	Mechanical thinning						Nov				
	Silvicultural operation such as climber cutting						Nov	Nov	Nov	Nov	Nov
	Mulching & Fire protection works	January	January	January	January	January	January	January	January	January	January
	Maintenance of camp hut			April	April	April	April	April	April	April	April
	Maintenance of fencing							April			
Protection by watch & ward		Apr-Mar	Apr-Mar	Apr-Mar	Apr-Mar	Apr-Mar					

Joint Principal Chief Conservator of Forests
 Chief Executive Officer, State Wildlife Conservation
 Department, Government of Karnataka
 Bengaluru


LIST OF PREFERRED TREE SPECIES FOR PLANTATION IN TERMS OF DIFFERENT AGRO-CLIMATIC ZONE

For Northern Assam, Central Assam & Hills region of Assam

1. Bhatghila (*Oroxylum indicum* (L.) Kurz)
2. Chaulmugra (i. *Hydnocarpus kurzii* (King) Warb. ii. *Gynocardia odorata*)
3. Hilikha (*Terminalia chebula* Retz.)
4. Amlokhi (*Phyllanthus emblica* L.)
5. Bhumora (*Terminalia bellirica* (Gaertn.) Roxb.)
6. Rudrakshya (*Elaeocarpus serratus* L.)
7. Thekera (*Garcinia* Spp.)
8. Arjun (*Terminalia arjuna* (Roxb. ex DC.) Wight & Arn.)
9. Dhuna (*Canarium resiniferum* Bruce ex King)
10. Agar (*Aquilaria malaccensis* Roxb)
11. Gonsoroi (*Cinnamomum glanduliferum* (Wall.) Meisn)
12. Mejankori (*Litsea citrata*)
13. Bher (*Salix tetrasperma* Roxb.)
14. Bonsum (*Phoebe goalparensis* Hutch.)
15. Titasopa (*Magnolia champaca* (L.) Baill. ex Pierre)
16. Cham Kathal (*Artocarpus chaplasha* Roxb.)
17. Khair (*Acacia catechu*)
18. Sissoo (*Dalbergia sissoo* DC.)
19. Semul (*Bombax ceiba* L.)
20. Bola (*Morus macroura* Miq.)
21. Sia Nahar (*Mesua assamica* (King & Prain) Kosterm)
22. Nahar (*Mesua ferrea* L.)
23. Khokan (*Duabanga grandiflora* (DC.) Walp.)
24. Hollock (*Terminalia myriocarpa* Van Heurck & Müll. Arg.)
25. Ou-tenga (*Dillenia indica* L.)
26. Kathal (*Artocarpus heterophyllus* Lam.)
27. Bonjaluk (*Cryptomaria amygdalina*)
28. Baghnalla (*Litsea glutinosa* (Lour.) C.B. Rob.)
29. Jamuk (i. *Syzygium cumini* (L.) Skeels ii. *Syzygium nervosum*)
30. Ajar (*Lagerstroemia speciosa* (L.) Pers.)
31. Sidha (*Lagerstroemia parviflora*)
32. Bogipoma (*Chukrasia tabularis* A.Juss.)
33. Haldu (*Haldina cordifolia* (Roxb.) Ridsdale)
34. Gomari (*Gmelina arborea* Roxb.)
35. Hingori (*Castanopsis* spp. (Roxb. ex Lindl.) A.DC.)
36. Sal (*Shorea robusta* Gaertn.)
37. Karach (*Derris indica*)
38. Koroī (*Albizia procera* (Roxb.) Benth.)
39. Sirich (*Albizia lebbeck* (L.) Benth.)
40. Bhelu (*Tetrameles nudiflora* R. Br.)
41. Pine (*Pinus Khasiana*)


For Eastern Assam

1. Hilikha (*Terminalia chebula* Retz.)
2. Amlokhi (*Phyllanthus emblica* L.)
3. Bhomora (*Terminalia bellirica* (Gaertn.) Roxb.)
4. Dhuna (*Canarium resiniferum* Bruce ex King)
5. Thekera (*Garcinia* Spp.)
6. Arjun (*Terminalia arjuna* (Roxb. ex DC.) Wight & Arn.)
7. Jamuk (i. *Syzygium cumini* (L.) Skeels)
8. Kathal (*Artocarpus heterophyllus* Lam.)
9. Cham Kathal (*Artocarpus chaplasha* Roxb.)
10. Nahar (*Mesua ferrea* L.)
11. Leteku (*Baccaurea ramiflora* Lour.)
12. Kath badam (*Pterygota alata*)
13. Ou-tenga (*Dillenia indica* L.)
14. Bogipoma (*Chukrasia tabularis* A.Juss.)
15. Sonaru (*Cassia fistula* L.)
16. Sasi (*Aquilaria agallocha* Roxb)
17. Monisal (*Sapindus mukorossi* Roxb.)
18. Hollong (*Dipterocarpus retusus* Blume)
19. Semul (*Bombax ceiba* L.)
20. Bhatghila (*Oroxylum indicum* (L.) Kurz)
21. Gomari (*Gmelina arborea* Roxb.)
22. Khokan (*Duabanga grandiflora* (DC.) Walp.)
23. Hollock (*Terminalia myriocarpa* Van Heurck & Müll. Arg.)
24. Titasopa (*Magnolia champaca* (L.) Baill. ex Pierre)
25. Pansopa (*Magnolia pterocarpa* Roxb.)
26. Khorika sopa (*Magnolia baillonii* Pierre)
27. Dalchini (*Cinnamomum verum* J.Presl)
28. Gansarai (*Cinnamomum glanduliferum* (Wall.) Meisn.)
29. Naga Dalchini (*Cinnamomum bejolghota* (Buch.-Ham.) Sweet)
30. Tejpat (*Cinnamomum tamala* (Buch.-Ham.) T.Nees & Eberm.)
31. Bhelu (*Tetrameles nudiflora* R. Br.)
32. Uriam (*Bischofia javanica* Blume)
33. Chaulmugra (*Gynocardia odorata*)
34. Sal (*Shorea robusta* Gaertn.)
35. Sirich (*Albizia lebbek* (L.) Benth.)


 Addl. Principal Chief Conservator of Forests
 Chief Executive Officer, State CAMPA Assam
 Lanakeshwar, Jalukbari, Guwahati-78

For Lower (Western) Assam

1. *Actinodaphne obovata* Noga- baghnola
2. *Aesculus assamica* Sarlok Asing
3. *Albizia procera* Koroi
4. *Anthocephalus chinensis* Kodom
5. *Aphanomixis polystachya* Boga amari
6. *Artocarpus chaplasha* Cham Kathal
7. *Baccaurea ramiflora* Leteku
8. *Bischofia javanica* Uriam
9. *Cinnamomum bejolghota* Naga- dalchini
10. *Cryptomaria amygdalina* Bonjaluk
11. *Duabanga grandiflora* Khakon
12. *Dysoxylum binectariferum* Bandor-dima
13. *Gmelina arborea* Gomari
14. *Lagerstroemia parviflora* Sidha
15. *Litsea glutinosa* Baghnalla
16. *Litsea. Monopetala* Soalu
17. *Mangifera sylvatica* Bon-am
18. *Michelia champaca* Titasopa
19. *Stereospermum personatum* Paroli
20. *Syzygium anisopetalum* Bogi-jamu
21. *S. cumini* Kalajam
22. *Terminal chebula* Hilikha
23. *Terminalia bellirica* Bhomora
24. *Elaeocarpus serratus* L. Rudrakshya
25. *Dillenia indica* Outenga
26. *Elaeocarpus floribunda* Jalphai
27. *Careya arborea* Pani-bhela, Kumbhi
28. *T. myriocarpa* Hollock
29. *Trewia nudiflora* Bhelkar
30. *Toona ciliate* Lal pomi
31. *Vatica lancaefolia* Morsal
32. *Schima wallichii* Makarisal
33. *Flacourtia jangoma* Panial
34. *Premna latifolia* Pachpotia
35. *Shorea robusta* Sal
36. *Dillenia pentagyna* Okshi
37. *Gynocardia odorata* Chaulmoogra
38. *Acacia catechu* Khair
39. *Dalbergia sissoo* DC. Sissoo
40. *Bombax ceiba* L. Semul
41. All *Garcinia* Spp (*G. pendunculata*, *G. assamica*, *G. cowa*,


 dt. Principal Chief Conservator
 Executive Officer, State C
 -war, Jakkbari, r

For Southern Assam (Barak Valley)

Scientific Name Local Name

1. *Dipterocarpus turbinatus* Garjan
2. *Mesua ferrea* Nahor
3. *Michelia glabra* Paansopa
4. *Palaquium polyanthum* Kurta
5. *Podocarpus neriifolius* Pencil tree
6. *Alphonsea lute* Chundi
7. *Aquilaria malaccensis* Agar
8. *Aporosa oblonga*
9. *Artocarpus chaplasha* Cham Kathal
10. *Artocarpus lacucha* Bohot
11. *Baccaurea ramiflora* Leteku
12. *Beilschmiedia brandisii* Bon-honwalu
13. *Calophyllum polyanthum* Sirpoon tree
14. *Castanopsis tribuloides* Hingori
15. *Cinnamomum cacharensis* Dalchini
16. *C. pauciflorum* Dalchini
17. *Diospyros montana* Keudu gos
18. (*Elaeocarpus serratus* L.) Rudrakshya
19. (*Flacourtia jangomas*) Panial
20. *Suregada multiflora* Midouma biphang
21. *Symplocos oxyphylla* Tam tingali
22. *Streblus indicus* Sorua
23. *Garcinia neruosa* De-phol
24. *Garcinia pedunculata* Borthequera

Sul
 Principal Chief Conservator
 of Executive Officer, State
 Forest, Jorhat, Assam

FUND RELEASE**(A) The conditions for release of fund to the DFOs under State CAMPA**

1. Fund will be released taking into consideration the schedule of activities mentioned in the plantation calendar.
2. Any release of fund to a division in respect of any activity will necessarily require prior submission of following documents related to the said activities through proper channel:
 - i. Utilization Certificate of fund previously released as per format signed by the DFO and Countersigned by the Circle- In-Charge.
 - ii. Progress report of the work.
 - iii. Monitoring report of the work done.
 - iv. Geo-tagged photographs of the work done against the previous fund release.
 - v. and, requisition of fund.
3. All the DFOs/CFs/CCFs responsible for implementation of the activities approved in the Annual Plan of Operation (APO) of CAMPA are required to submit Quarterly Progress Report with Geo-tagged photographs of the activities through proper channel. The reports submitted directly will not be accepted.
4. To emphasize, submission of location wise geo-tagged photographs of all activities "before" and "after" their implementation is mandatory.
5. Submission of final GPS track of periphery of the plantation site after completion of fencing is mandatory for release of fund for creation.
6. The daily wages of the labourers engaged for plantation works must be paid through their bank accounts only. The bank statement containing the payment details of the labourers must be sent along with the Monthly-Cash-Accounts.
7. The DFOs shall submit an Annual Report to the State CAMPA furnishing details in brief about the fund received from State CAMPA and details of amount spent against various works done during the year.

S. M.
Principal Chief Conservator of Forests,
Chief Executive Officer, State CAMPA
Bhubaneswar, Jajbhari, Guwahati

(B) The modalities

Fund will be released in advance in three phases, preferably in the month of April, October, February in the 1st year subject to fulfillment of the conditions mentioned above. In the subsequent years fund will be released in the month of April for weeding, vacancy filling etc.

1st installment (April)


- a. Site Nursery

2nd installment (October)

- a. Survey and demarcation
- b. Jungle clearance and slash disposal
- c. Fencing and Infrastructure
- d. Lining and stacking
- e. Making inspection path
- f. Soil working & pitting

3rd installment (February/March)

- a) Planting of seedlings
- b) Weeding and vacancy filling
- c) Mulching and fire protection works


Addl. Principal Chief Conservator of
Executive Officer, State CAMP
Gwar, Jalukbari, Guwahati

UTILIZATION CERTIFICATE (STATE CAMP A, ASSAM)

(Based on GFR 12 C format)

Sl. No.	Release letter No. & Date	Amount (In Rs.)

Certified that out of an amount of Rs.....only released during the year.....under CAMP A scheme to the DFO.....Division as per the letter No. given in the margin, a sum of Rs.....only has been utilized for which it was released and that the balance of Rs.....remain unutilized as on.....(Date).

2. Certified that I have satisfied myself that the conditions on which the fund of CAMP A was released have been duly fulfilled/ are being fulfilled and that, I have exercised the following checks to see that the money is actually utilized against the components of Annual Plan of Operation.....approved by the National Authority. The purpose of the expenditure is as follows:

Sl. No.	Details of works executed	Amount spent (Rs.)
	Total	

Kind of checks exercised:

- a) By checking and scrutiny of accounts.
- b) Actual inspection of works in the field.

Submitted by

Countersigned by

Divisional Forest Officer

Chief Conservator of Forests/Conservator of Forests

Division

MONITORING AND EVALUATION/INSPECTION SCHEDULE

Assam Forest Department is regularly receiving budgetary allocations from Govt. of Assam under various schemes including CAMPA schemes. The mandate of the department is to effectively implement all the works under these schemes utilizing the said budgetary allocations.

In view of the above, the following protocol shall be strictly followed for inspection/monitoring of works executed:

Sl	Rank	% of number of works under execution to be monitored in respective jurisdiction
1	Range Officer I/c	100%
2	Assistant Conservator of Forests	50%
3	Divisional Forest Officer	25%
4	Conservator of Forests/circle In-charge	10%
5	Wing Head/Zonal In charge/Project Head	05%
6	Senior officers above CCF Rank from the O/o PCCF & HoFF, Assam	Whenever they visit field as per availability of time

The inspection shall be conducted on quarterly basis in a financial year and reports shall be submitted accordingly (means quarterly).

The inspection reports, by officers as shown above, are to be submitted to the office of the CEO, CAMPA, through proper channel, from time to time.

In case of inspection of Plantation works, the report shall cover all aspects such as:

- Details of plantation like; name of division, name of Range, name of RF/PRF/Revenue land, location, Type of plantation (AR/ANR/others, Target area in ha, year of creation etc.).
- Area covered computed using GPS (to be part of inspection up to CF level and below)
- KML file or GPS map printout of the plantation site shall be enclosed with the inspection report.
- Condition of Fencing, Camp hut, water facility and inspection path
- Survival percentage and health of plantation including average height of seedlings.
- Species Planted and spacing between seedlings. (The Executing Officers have to take approval of species to be planted from the respective Circle In-charge at the time of preparation of estimates).
- Representative site photographs taken during inspection with date of inspection and Geo-coordinates of site imprinted on the front side of photo)
- Maintenance of Plantation Journal with all data of financial and physical progress, chronologically; plantation map and inspection columns duly filled in by Officers whenever they visit plantation site.

In case of Nursery works, the report shall cover all aspects such as:

- Details of nursery; name of division, name of Range, name of RF/PRF/Revenue land, location, Target area and target number of seedlings etc.
- Area covered computed using GPS.
- KML file or GPS map printout of the nursery site shall be enclosed. (with the inspection report of Range Officer, ACF and DFOs only)
- Survival percentage and health of saplings in the beds.
- Species-wise number of seedlings raised. (The Executing Officers have to take approval of species from the respective Circle-In-Charge to be raised at the time of preparation of estimates)
- Representative site photographs taken during inspection with date of inspection and Geo-coordinates of site imprinted on the front side of photo).
- Details of previous stock lying in the Nursery and details of distribution of previous year's stock.
- Maintenance of Nursery Journal with all data of financial and physical progress, chronologically; Nursery map and inspection columns duly filled in by Officers whenever they visit nursery site.

In case of civil works in the plantation site, the report shall cover all aspects such as:

- Details of work; name of work, name of division, name of Range, name of RF/PRF/Revenue land, location, etc.
- Geo-Coordinates of the site
- Physical and financial progress vis-à-vis agreed milestones and technical specifications.
- Quality of construction.
- Whether proper display board is maintained or not, at the site, clearly showing Name of the work, scheme, budget outlay, etc.
- Work photographs taken during inspection (with date of inspection and Geo-coordinates of site imprinted on the front side of photo).
- Whether Measurement book is maintained.

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QUARTERLY PROGRESS REPORT

Sl. No.	Name of Circle	Name of Division	Name of Scheme	Annual Plan for the year	Budget released during the year	Expenditure incurred during the year						Remarks	
						Upto last quarter		During the quarter		Cumulative			
						Phy	Fin	Phy	Fin	Phy	Fin		
1	2	3	4	5	6	7	8	9	10	11	12	13	

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PLANTATION JOURNAL

.....DIVISION
.....RANGE
.....BEAT
.....BLOCK/ COMPARTMENT
.....RF / PRF
.....TYPE OF PLANTATION
.....YEAR OF CREATION

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PLANTATION DETAILS

YEAR OF CREATION OF PLANTATION _____

A. RANGE _____ BEAT _____ JFMC _____

B. VCDC _____

C. (i) **LAND SCHEDULE:**

BLOCK _____ COMPARTMENT NO. _____ AREA (ha) _____

(ii) **BOUNDARY:**

NORTH:

EAST:

SOUTH:

WEST:

D. **Site Map of Plantation**

(To be attached along with the Shape-file of the plantation area on satellite imagery over SOI toposheet)



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Points	Forward bearing	Backward bearing	Distance (m)	GPS reading
A-B				(A)
B-C				(B)
C-D				(C)
D-E				(D)
E-*				(E)

*Fill in the blank columns depending upon the no. of corners of the plantation area.

Surveyed by **Prepared by** **Checked by** **Approved by**
 B.O. R.O. ACF. DFO

E. Summary Treatment Specification

MODEL

S.No.	Species	Spacing (m x m)	Propagation Method
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

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F. PAST HISTORY OF THE SITE

(i) Give general description of the site, existing flora, natural vegetation of the area, degradation, cause / natural blank, old plantation or high forest [was the area planted earlier and being planted again due to failure/low survival – details to be given].

(ii) If degraded/ blank area, mention the date of site selection.

(iii) Dependence of local people on the site for sustenance
Grazing/ Leaf litter collection/ NTFP collection etc. [specify quantities as much as possible]

(iv) Benefits derived by local people from past fellings, stump uprooting, etc.

Wage income

Rs.....

PRODUCTS	(a)Poles.....No@	Rs.....
	(b)Firewood.....m ³ @	Rs.....
	(c) NTFPs	

H. TECHNICAL DATA (tick the correct one or enter the value)

(a) Configuration : Hilly/Undulating/Flat

(b) Slope : Flat(<10°)/Gentle(10-30°)/steep(>30°):

(c) Aspect : N/NE/E/SE/S/SW/W/NW

(c) Water Table in February : _____ in August

(d) EROSION Status : Sheet erosion/ Rill erosion/Gully erosion/Nil

(e) Soil Type : Rocky/ Laterite/ Alluvial/ Riverine

Texture : Sandy/Sandy loam/Loam/Clayey Loam/
Clay/Calcareous

(f) Soil Testing Report :

Ratio _____ pH _____ C/N

N _____ P _____ Available
K _____

Micromutrients _____
(Specify)

(g) Climate

(i) Temperature : In January _____ in
June _____

(ii) Mean Annual Rainfall :

(h) Seeds

(i) Source

(ii) Pretreatment
(specify) _____

(i) Stumps

(ii) Seedlings

Soil

I. REASONS FOR SELECTING THE PROPOSED AREA

Area selected by:	Area approved by:
Name of officer:	Name of officer:
Designation:	Designation:
Signature:	Signature:

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J. PLANTING STOCK

SPECIES <i>(common name & botanical name)</i>	TYPE OF PLANTING STOCK USED <i>(eg. Seed, Root-shoot cutting, Potted seedlings, Naked Root seedlings etc.)</i>	QUANTITY OF SEED/SEEDLINGS USED <i>(Kgs or Nos.)</i>	SOURCE OF SEED <i>(Give the name of seed stand, provenance etc. from where seed was obtained for direct sowing as well as raising the seedlings in nursery)</i>
1	2	3	4

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K. SITE NURSERY

(i) Location:

(ii) Area = _____ m (length) X _____ m (breadth)

(iii) No. of beds of each species:

Species	No. of Beds (Polypots/ Mother Bed for Naked Root)	No. in each bed	Total
1.			
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

iv) Size of each bed

Mother bed = _____ m X _____ m X _____ m = _____ numbers

Polypot bed = _____ m X _____ m X _____ m = _____ numbers

v) Quantity of polypots used & gauge = _____ Kgs and _____ gauge

vi) Material input:

Input	Quantity	Date of application	Remarks
FYM / compost			
Sand			
Good earth			
Rhizobium			
Azatobactor			
Phosphobacterium			
DAP			
NPK mixture(: :)			
Neem cake			
Others.....			

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L. PLANTATION

(i) PHYSICAL PARAMETERS

Boundary : Continuous / Broken / Staggered.

Planting pit : Size:

Spacing:

No.of lines:

(ii) Dates of carrying out the works related with land preparation:

(a) Cleaning & burning :

(b) Boundary fencing :

(c) Ploughing, if any :

(d) Staking and alignment :

(e) Pit digging / line hoeing :

(f) Planting out :

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M. MAINTENANCE*Mention period of Mandays (DLs)*

Cleaning/ Mutching / Vacaney Filling	1 st	2 nd	3 rd	4 th	5 th
Year 1 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 2 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 3 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 4 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 4 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 5 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 6 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 7 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 8 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 8 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 9 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....
Year 10 (20____ - 20____)	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....	Month..... DLs..... @ Rs.....

N. SURVIVAL % AND GROWTH RATE OF THE PLANTATION
DURING OCTOBER and APRIL

Growth rate and Survival % to be taken biannually, once at the end of growing season, second at the beginning of monsoons, from 1st to 5th year of Plantation.

Month / Year	Survivability/ Average Height (m)	Species	Species	Species	Species	Species	Species	Species
April/ 20__	Survival %							
	Average Height(m)							
	Girth (m)							
Oct/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
April/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
April/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival %							

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	Girth (m)							
	Average Height(m)							
April/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
April/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
April/ 20__	Survival %							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival %							
	Girth(m)							
	Average Height(m)							
April/ 20__	Survival %							

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20__	%							
	Girth (m)							
	Average Height(m)							
Oct/ 20__	Survival							
	%							
	Girth (m)							
	Average Height(m)							

Note: For average height, average of the values of 50 trees, randomly distributed over the whole plantation, is to be taken.

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O. GROWTH DATA OF PLANTATION TILL FELLING

(Every alternate year from 6th year onwards)

[this will be important to measure carbon sequestration and prescription of yield in working plans]

Year	Survivability/ Average Height (m)	Species	Species	Species	Species	Species	Species	Species
20__	Survival %							
	Average Height(m)							
	Girth (m)							
20__	Survival %							
	Girth (m)							
	Average Height(m)							
20__	Survival %							
	Girth (m)							
	Average Height(m)							
20__	Survival %							
	Girth (m)							
	Average Height(m)							
20__	Survival %							
	Girth (m)							
	Average Height(m)							
20__	Survival %							
	Girth (m)							
	Average Height(m)							

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20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								
20__	Survival %								
	Girth (m)								
	Average Height(m)								

20	Girth (m)							
	Average Height(m)							
20	Survival %							
	Girth (m)							
	Average Height(m)							
20	Survival %							
	Girth (m)							
	Average Height(m)							
20	Survival %							
	Girth (m)							
	Average Height(m)							

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P. CHRONOLOGICAL DETAILS OF INSECT, FUNGUS ATTACKS AND DAMAGE
BY FIRE AND CATTLE (BIOTIC PRESSURE)

lcl

Q. DETAILS OF SANCTIONS

Scheme under which the plantation is raised along with the sanctioning authority:

Sanction Estimate Number:

Amount sanctioned:

Year	Amount Sanctioned(Rs.)	Amount spent during the year(Rs.)
Advance Work(20__ -20__)		
Plantation Year(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		
(20__ -20__)		

all

R. FINANCIAL DATA (EXPENDITURE DETAILS)

(At the close of each financial year totals of col. 5, 6 & 7 should be given in red ink)

Year Month	Voucher No.	Head of Service	Details of work	Monthly Expenditure			Remarks
				Material	Labour	Total	
1	2	3	4	5	6	7	8

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S. FINANCIAL DATA (BENEFITS DETAILS)

Year /Month	ITEM <i>Wages/Intercrop, Firewood, Pole, timber etc.</i>	Yield Deptt/ JFMC	Value Rs. Govt./JFMC

Sal

T. REMARKS OF INSPECTING OFFICERS AND ACTION TAKEN

<i>Date</i>	<i>Remarks of Inspecting Officer with designation & signature</i>	<i>Action taken on remarks of Inspection Officer</i>

SL

GOVERNMENT OF ASSAM
PUBLIC WORKS (BLDG. & NH) DEPARTMENT: BUILDING BRANCH
DISPUR, GUWAHATI-6

ORDERS BY THE GOVERNOR
NOTIFICATION

No. B.57/2021/41

Dated Dispur, the 28th June, 2021

The Governor of Assam is pleased to notify that from now onwards the current Schedule of Rates (SOR) used by Central Public Works Department will be adopted for execution of all works (Civil, Sanitary & Water Supply and Electrical) under Assam Public Works Department (Building Wing). All norms and guidelines of Central Public Works Department in respect of SOR will be followed by Assam Public Works Department (Building Wing). For use of local items like bamboo, cane etc. a supplementary Schedule of Rates will be published for use in the Department.

The use of Schedule of Rates (SOR) for Civil, Sanitary Fittings & Water Supply Works- 2020-21 and Schedule of Rates (SOR) for Electrical Works-2013-2014 is discontinued with immediate effect.

accanabab
28.06.21
(Raj) Chakrabarty

Commissioner & Special Secretary to the Govt. of Assam
P.W. (Bldg. & NH) Department,
Dispur, Guwahati-06

Memo No. B.57/2021/41-A

Dated Dispur, the 28th June, 2021.

Copy to:-

1. The PPS to the Hon'ble Chief Minister, Assam, Dispur, Guwahati-06 for favour of kind appraisal of the Hon'ble Chief Minister.
2. The PS to the Hon'ble Minister, PWD, Assam, Dispur, Guwahati-06 for favour of kind appraisal of the Hon'ble Minister.
3. The PS to the Chief Secretary, Assam, Dispur, Guwahati-06 for favour of kind appraisal of the Chief Secretary.
4. The PS to the Principal Secretary to Hon'ble Chief Minister, Assam, Dispur, Guwahati-06 for favour of kind appraisal of the Principal Secretary.
5. The PS to the Principal Secretary to the Govt. of Assam, Finance Department, Assam, Dispur, Guwahati-06 for favour of kind appraisal of the Principal Secretary. This has a reference to Finance Deptt. letter No. FEC(H)44/2018/63 dtd. 07-12-2020.
6. The PS to the Accountant General(ARF) Audit, Assam, Maidamgaon, Beltola, Guwahati-29 for favour of kind appraisal of the AG.
7. The PS to the Commissioner & Spl. Secretary to the Govt. of Assam, P.W. (Bldg. & NH) Deptt, Dispur, Guwahati-06 for favour of kind appraisal of Commissioner & Spl. Secretary.
8. The PS to the Commissioner & Spl. Secretary to the Govt. of Assam, PWRD, Dispur, Guwahati-06 for favour of kind appraisal of Commissioner & Spl. Secretary.
9. The Chief Engineer, PWD (Building/NH Works/Roads/Border Roads/EAP), Assam, Chandinari, Guwahati-3 for information and necessary action.
10. The Director, Assam Government Press, Bamunimaidam, Guwahati-21 for publication of the Notification in the Assam Gazette. He is requested to supply 100 printed copies to this Department.
11. All concerned Departments.

By order, etc.,

21/6/21
Deputy Secretary to the Govt. of Assam,
P.W. (Bldg. & NH) Department,
Dispur, Guwahati-06

Norms for 5 Ha. Artificial Regeneration (AR) Plantation

Area (ha.)	5
Spacing (m x m)	2 X 2
Number of Saplings/ ha	2500
Length of Fence (RM)	1200*
Wage rate (Rs.)	320
Increase in wage rate for subsequent years by a factor	1.1**

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
A	ERECTION OF FENCING							
	(a) Cost of full chain link fencing (4' ht with 10 gauge 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be filled on pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per detail specification attached at 2.5 m apart, including transportation, fitting and fixing for 1200 RM @ Rs. 1260/RM as per estimate (detailed estimate enclosed)	RMs		1200	1260	1512000		
	<i>Sub Total</i>					1512000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Cost of tools & implements	Set		1	10000	10000		
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos.		1	40000	40000		
	<i>Sub Total</i>					50000	12%	1%
C	ADVANCE WORK							
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	4125	20625	10	206250		
	Site selection, surveying, demarcation, jungle cutting, slash disposal etc. 40 DLs/ha.	DLs	40	200	320	64000		
	<i>Sub Total</i>					270250		
D	CREATION							
	Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 DLs/ ha	DLs	50	250	320	80000		
	<i>Sub Total</i>					80000		
E	1ST YEAR MAINTENANCE							
	4 weeding, mulching and fire protection works @ 25 DLs/ ha/ weeding	DLs	100	500	320	160000		
	Contingency	LS				5000		
	<i>Sub total</i>					165000		
F	2ND YEAR MAINTENANCE							
	4 weedings, mulching & fire protection works @ 25 DLs/ha/weeding	DLs	100	500	320	160000		
	25% vacancy filling by 1 year old seedlings from nursery @ 28 DLs/ha	DLs	28	140	320	44800		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				5000		
	<i>Sub Total</i>					326600		

655485/2022/NA

No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
G	3RD YEAR MAINTENANCE							
	4 weedings, mulching & fire protection works @ 20 DLs/ha/ weeding	DLs	80	400	320	128000		
	15% Vacancy filling by 2 year old seedlings from nursery @ 23 DLs/ ha	DLs	23	115	320	36800		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				5000		
	<i>Sub Total</i>					286600		
H	4TH YEAR MAINTENANCE							
	3 weedings, fire protection works @ 15 DLs/ ha/ weeding	DLs	45	225	320	72000		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				5000		
	<i>Sub Total</i>					193800		
I	5TH YEAR MAINTENANCE							
	Climber cutting, 3 weedings & other silvicultural works and fire protection works @ 15 DLs/ ha	DLs	45	225	320	72000		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				5000		
	<i>Sub Total</i>					193800		
J	6TH YEAR MAINTENANCE							
	Repairing of Chainlink fencing	LS				25000		
	1st mechanical thinning of alternate single strips in the plantation; 1250 nos of stems/ha	DLs	62	310	320	99200		
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	50	320	16000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				9000		
	<i>Sub Total</i>					154200		
K	7TH YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	50	320	16000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					26000		
L	8th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	50	320	16000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					26000		

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655485/2022/NA


No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
M	9th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	50	320	16000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					26000		
N	10th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	50	320	16000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					26000		

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021


 Chief Executive Officer, State CAMPA Asst
 Rankeshwar, Jalukbari, Guwahati-14

Norms for 10 Ha. Artificial Regeneration (AR) Plantation

Area (ha.)	10
Spacing (m x m)	2 X 2
Number of Saplings/ ha	2500
Length of Fence (RM)	1500*
Wage rate (Rs.)	320
Increase in wage rate for subsequent years by a factor	1.1**

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
A	ERECTION OF FENCING							
	(a) Cost of full chain link fencing(4' ht with 10 guage 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be filled on pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per detail specification attached at 2.5 m apart, including transportation, fitting and fixing for 1500 RM @ Rs. 1260/RM as per estimate (detailed estimate enclosed)	RM's		1500	1260	1890000		
	<i>Sub Total</i>					1890000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Cost of tools & implements	Set		1	10000	10000		
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos.		1	40000	40000		
	<i>Sub Total</i>					50000	12%	1%
C	ADVANCE WORK (including site nursery)							
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	4125	41250	10	412500		
	Site selection, surveying, demarcation, jungle cutting, slash disposal etc. 40 DLs/ha.	DLs	40	400	320	128000		
	<i>Sub Total</i>					540500		
D	CREATION							
	Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 DLs/ ha	DLs	50	500	320	160000		
	<i>Sub total</i>					160000		
E	1ST YEAR MAINTENANCE							
	4 weeding, mulching and fire protection works @ 25 DLs/ ha/ weeding	DLs	100	1000	320	320000		
	Contingency	LS				8000		
	<i>Sub total</i>					328000		

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
F	2ND YEAR MAINTENANCE							
	4 weedings, mulching and fire protection works @ 25 DLs/ha/weeding	DLs	100	1000	320	320000		
	25% vacancy filling by 1 year old seedlings from nursery @ 28 DLs/ha	DLs	28	280	320	89600		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				8000		
	<i>Sub Total</i>					534400		
G	3RD YEAR MAINTENANCE							
	4 weedings, mulching & fire protection works @ 20 DLs/ ha/ weeding	DLs	80	800	320	256000		
	15% Vacaney filling by 2 year old seedlings from nursery @ 23 DLs/ ha	DLs	23	230	320	73600		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				8000		
	<i>Sub Total</i>					454400		
H	4TH YEAR MAINTENANCE							
	3 weedings, fire protection works @ 15 DLs/ ha/ weeding	DLs	45	450	320	144000		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				8000		
	<i>Sub Total</i>					268800		
I	5TH YEAR MAINTENANCE							
	Climber cutting, 3 weedings & other silvicultural works and fire protection works @ 15 DLs/ ha	DLs	45	450	320	144000		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800		
	Contingency	LS				8000		
	<i>Sub Total</i>					268800		
J	6TH YEAR MAINTENANCE							
	Repairing of Chainlink fencing	LS				25000		
	1st mechanical thinning of alternate single strips in the plantation; 1250 nos of stems/ha	DLs	62	620	320	198400		
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	100	320	32000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				9000		
	<i>Sub Total</i>					269400		

655485/2022/NA

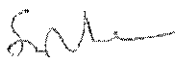
Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
K	7TH YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	100	320	32000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					42000		
L	8th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	100	320	32000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					42000		
M	9th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	100	320	32000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					42000		
N	10th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	100	320	32000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					42000		

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021


 J. J. Principal Chief Conservator of Forests &
 Chief Executive Officer, State CAMPA Assam
 Lankeshwar, Jorhatbari, Guwahati-14

Norms for 25 Ha. Artificial Regeneration (AR) Plantation

Area (ha.)	25
Spacing (m x m)	2 X 2
Number of Saplings/ ha	2500
Length of Fence (RM)	2500*
Wage rate (Rs.)	320
Increase in wage rate for subsequent years by a factor	1.1**

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
A	ERECTION OF FENCING							
	(a) Cost of full chain link fencing (4' ht with 10 guage 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be fitted on pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per detail specification attached at 2.5 m apart, including transportation, fitting and fixing for 2500 RM @ Rs. 1260/RM as per estimate (detailed estimate enclosed)	RMs		2500	1260	3150000		
	<i>Sub Total</i>					3150000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Construction of camp hut with installation of ring well/tube well	Nos.		1	225000	225000		
	Cost of tools & implements	Set		1	10000	10000		
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos.		1	40000	40000		
	Camp accessories @ Rs.10000/- per camp	Nos.		1	10000	10000		
	<i>Sub Total</i>					285000	12%	1%
C	ADVANCE WORK (including site nursery)							
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	4125	103125	10	1,031,250		
	Site selection, surveying, demarcation, jungle cutting, slash disposal etc. 40 DLs/ha.	DLs	40	1000	320	320000		
	<i>Sub Total</i>					1351250		
D	CREATION							
	Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 DLs/ ha	DLs	50	1250	320	400000		
	<i>Sub Total</i>					400000		
E	1ST YEAR MAINTENANCE							
	4 weeding, mulching and fire protection works @ 25 DLs/ ha/ weeding	DLs	100	2500	320	800000		
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (2 DL for 365 days)	DLs	2	730	320	233600		
	Contingency	LS				10000		
	<i>Sub total</i>					1043600		

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Sl.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.
F	2ND YEAR MAINTENANCE						
	4 weedings, mulching and fire protection works @ 25 DLs/ha/weeding	DLs	100	2500	320	800000	
	25% vacancy filling by 1 year old seedlings from nursery @ 28 DLs/ha	DLs	28	700	320	224000	
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (2 DL for 365 days)	DLs	2	730	320	233600	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records and other misc. work	LS				10000	
	Contingency	LS				10000	
	<i>Sub Total</i>						1277600
G	3RD YEAR MAINTENANCE						
	4 weedings, mulching and fire protection works @ 20 DLs/ ha/ weeding	DLs	80	2000	320	640000	
	15% Vacancy filling by 2 year old saplings from nursery @ 23 DLs/ ha	DLs	23	575	320	184000	
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (2 DL for 365 days)	DLs	2	730	320	233600	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records etc.	LS				5000	
	Contingency	LS				10000	
	<i>Sub Total</i>						1072600
H	4TH YEAR MAINTENANCE						
	3 weedings, fire protection works @ 15 DLs/ ha/ weeding	DLs	45	1125	320	360000	
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records etc.	LS				5000	
	Contingency	LS				10000	
<i>Sub Total</i>						491800	
I	5TH YEAR MAINTENANCE						
	Climber cutting, 3 weedings & other silvicultural works and fire protection works @ 15 DLs/ ha	DLs	45	1125	320	360000	
	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (1 DL for 365 days)	Dls	1	365	320	116800	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				10000	
<i>Sub Total</i>						491800	

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655485/2022/NA

Sl.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.
J	6TH YEAR MAINTENANCE						
	Repairing of Chainlink fencing	LS				25000	
	1st mechanical thinning of alternate single strips in the plantation; 1250 nos of stems/ha	DLs	62	1550	320	496000	
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	250	320	80000	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				9000	
	<i>Sub Total</i>					615000	
K	7TH YEAR MAINTENANCE						
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	250	320	80000	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				5000	
	<i>Sub Total</i>					90000	
L	8th YEAR MAINTENANCE						
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	250	320	80000	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				5000	
	<i>Sub Total</i>					90000	
M	9th YEAR MAINTENANCE						
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	250	320	80000	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				5000	
	<i>Sub Total</i>					90000	
N	10th YEAR MAINTENANCE						
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	250	320	80000	
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000	
	Contingency	LS				5000	
	<i>Sub Total</i>					90000	

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021

Sri
 Addl. Principal Chief Conservator of Forests &
 Chief Executive Officer, State CAMPA Assam
 Lankeshwar, Jalukbari, Guwahati-14

Norms for 50 Ha. Artificial Regeneration (AR) Plantation

Area (ha.)	50
Spacing (m x m)	2 X 2
Number of Saplings/ ha	2500
Length of Fence (RM)	4000*
Wage rate (Rs.)	320
Increase in wage rate for subsequent years by a factor	1.1**

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
A	ERECTION OF FENCING							
	(a) Cost of full chain link fencing(4' ht with 10 gauge 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be filled on pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per detail specification attached at 2.5 m apart, including transportation, fitting and fixing for 4000 RM @ Rs.1260/RM as per estimate (detailed estimate enclosed)	RMs		4000	1260	5040000		
	<i>Sub Total</i>					5040000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Construction of camp hut with instalation of ring well/tube well (depending of site)	Nos.		1	225000	225000		
	Cost of tools & implements	Set		2	5000	10000		
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos.		1	40000	40000		
	Camp accessories @ Rs.10000/- per camp	Set		2	10000	20000		
	<i>Sub Total</i>					295000	12%	1%
C	ADVANCE WORK (including site nursery)							
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	4125	206250	10	2062500		
	Site selection, surveying, demarcation, jungle cutting, slash disposal etc. 40 DLs/ha.	DLs	40	2000	320	640000		
	<i>Sub Total</i>					2702500		
D	CREATION							
	Soil working, carriage of stumps, polypot seedling and planting at the plantation site including, dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 DLs/ ha	DLs	50	2500	320	800000		
	<i>Sub total</i>					800000		
E	1ST YEAR MAINTENANCE							
	4 weeding, mulching and fire protection works @ 25 DLs/ ha/ weeding	DLs	100	5000	320	1600000		
	Maintenance and protection of field nursery and watch and ward for the plantation area (2 DL for 365 days)	DLs	2	730	320	233600		
	Contingency	LS				15000		
	<i>Sub total</i>					1848600		

Sub

655485/2022/NA

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
F	2ND YEAR MAINTENANCE							
	4 weedings, Mulching and fire protection works @ 25 DLs/ha/weeding	DLs	100	5000	320	1600000		
	25% vacancy filling by 1 year old seedlings from nursery @ 28 DLs/ha	DLs	28	1400	320	448000		
	Maintenance and protection of field nursery and watch and ward for the plantation area (2 DL for 365 days)	DLs	2	730	320	233600		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records and other misc. work	LS				10000		
	Contingency	LS				15000		
	Sub Total					2306600		
G	3RD YEAR MAINTENANCE							
	4 weedings, mulching and fire protection works @ 20 DLs/ ha/ weeding	DLs	80	4000	320	1280000		
	15% Vacancy filling by 2 year old seedlings from nursery @ 23 DLs/ ha	DLs	23	1150	320	368000		
	Maintenance and protection of field nursery and watch and ward for the plantation area (2 DL for 365 days)	DLs	2	730	320	233600		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records etc.	LS				5000		
	Contingency	LS				15000		
	Sub Total					1901600		
H	4TH YEAR MAINTENANCE							
	3 weedings, fire protection works @ 15 DLs/ ha/ weeding	DLs	45	2250	320	720000		
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	320	116800		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation, upkeepment of records etc.	LS				5000		
	Contingency	LS				15000		
	Sub Total					856800		
I	5TH YEAR MAINTENANCE							
	Climber cutting, 3 weedings & other silvicultural works and fire protection works @ 15 DLs/ ha	DLs	45	2250	320	720000		
	Maintenance and protection of field nursery and watch and ward for the plantation area (1 DL for 365 days)	DLs	1	365	320	116800		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				15000		
	Sub Total					856800		

Sal

655485/2022/NA

Sl. No.	Particulars of works	Units	Qty./ Ha.	Total Qty.	Rate/ Unit	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
							GST	Labour Cess
J	6TH YEAR MAINTENANCE							
	Repairing of Chainlink fencing	LS				25000		
	1st mechanical thinning of alternate single strips in the plantation; 1250 nos of stems/ha	DLs	62	3100	320	992000		
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	500	320	160000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				9000		
	<i>Sub Total</i>					1191000		
K	7TH YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	500	320	160000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					170000		
L	8th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	500	320	160000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					170000		
M	9th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	500	320	160000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					170000		
N	10th YEAR MAINTENANCE							
	Climber cutting, Silvicultural works and fire protection works @ 10 DLs/ ha	DLs	10	500	320	160000		
	Maintenance of camp hut, implements, upkeepment of plantation signboard, documentation & upkeepment of records etc.	LS				5000		
	Contingency	LS				5000		
	<i>Sub Total</i>					170000		

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021

NORMS FOR 25 HA. AIDED NATURAL REGENERATION (ANR) PLANTATION

(Area should have atleast 50% Natural Regeneration)

Area (ha)	=	25
No. of seedlings per Ha.	=	600
Length of Fence (RM)	=	2500*
Wage rate (Rs.)	=	320
Increase in wage rate for subsequent years by a factor	=	1.1**


Sl. No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)	Applicable Rate of GST/Cess etc	
							GST	Labour Cess
A	ERECTION OF FENCING			@Rs.	320	/DL		
	Cost of full Chain-linked fencing (4' ht. with 10 Gauge, 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be fitted on Pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per details specification attached at 2.5 m apart including transportation, fitting and fixing for 2500 RM @ Rs. 1260 per RM as per estimate (detailed estimate enclosed)	RMs		2500	1260	3150000		
	<i>Sub-total</i>					3150000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Cost of RCC signboard & Gate including fitting and fixing of the same	Nos.		1	40000	40000		
	Cost of tools & implements	Set		1	10,000	10000		
	<i>Sub-total</i>					50000	12%	1%
C	ADVANCE WORK, CREATION & 1st YEAR MAINTENANCE			@Rs.	320	/DL		
	Raising of Nursery for creation including vacancy filling for 3 (three) years (25% + 15% + 10%) and site nursery mortality 15% by using polypots	Nos.	990	24750	10	247500		
	Site selection, surveying, demarcation, jungle cutting etc. 30DLs/ha retaining 2 or 3 healthy regeneration wherever profuse regeneration	DLs	30	750	320	240000		
	Collection and dibbling of seeds or planting of stumps/saplings	DLs	40	1000	320	320000		
	Soil working for planting polypotted saplings	DLs						
	4 rain weeding (25 + 25 + 25 + 25) including vacancy filling	DLs	100	2500	320	800000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub total</i>					1724300		
D	2nd YEAR MAINTENANCE			@Rs.	320	/DL		
	4 rain weedings (25 + 20+ 20+ 20) including vacancy filling	DLs	85	2125	320	680000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub Total</i>		86			796800		
E	3rd YEAR MAINTENANCE			@Rs.	320	/DL		
	3 rain weedings (25 + 20+ 20) including vacancy filling	DLs	65	1625	320	520000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub Total</i>		66			636800		
	<i>Grand Total</i>					6357900		

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021


 Addl. Principal Chief Conservator of Forests
 Chief Executive Officer, State CAMPA Assam
 Lankeshwar, Jalukbari, Guwahati-14

NORMS FOR 25 HA SAL COPPICE MANAGEMENT

Area (ha)	=	25
Length of Fence (RM)	=	2500*
Wage rate (Rs.)	=	320
Increase in wage rate for subsequent years by a factor		1.1**

Sl. No.	Particulars of works	Units	Qty./ha	Total Qty.	Rate / Unit	Amount (Rs.)	Applicable Rate of GST/Cess etc.	
							GST	Labour Cess
A	ERECTION OF FENCING				@Rs. 320 /DL			
	Cost of full Chain-linked fencing (4' ht. with 10 Gauge, 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be fitted on Pre-cast RCC pillars of specific specification and size (2.1m x 0.125m x 0.125m) as per details specification attached at 2.5 m apart including transportation, fitting and fixing for 2500 RM @ Rs. 1260 per RM as per estimate (detailed estimate enclosed)	RM's		2500	1260	3150000		
	<i>Sub-total</i>					3150000	14.05%	1%
B	INFRASTRUCTURE IN PLANTATION AREA							
	Cost of RCC signboard & Gate including fitting and fixing of the same	nos.		1	40000	40000		
	Cost of tools & implements	Set		1	10,000	10000		
	<i>Sub-total</i>					50000	12%	1%
C	CREATION & 1st YEAR MAINTENANCE				@Rs. 320 /DL			
	Retaining of sound sal stems and cutting off of unhealthy ones	DLs	10	250	320	80000		
	Cultural Operation including climber cutting, jungle clearing, etc	DLs	20	500	320	160000		
	Collection of planting materials of sal for gap plantation & carrying out planting operation	nos.	120	3000	15	45000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub total</i>					401800		
D	2nd YEAR MAINTENANCE				@Rs. 320 /DL			
	Cultural Operation including climber cutting, jungle clearing, etc	DLs	15	375	320	120000		
	Collection of planting materials of sal for gap plantation & carrying out planting operation for 25% mortality	Nos.	30	750	15	11250		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>sub total</i>					248050		
E	3rd YEAR MAINTENANCE				@Rs. 320 /DL			
	Cultural Operation including climber cutting, jungle clearing, etc	DLs	15	375	320	120000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub total</i>					236800		
F	4th YEAR MAINTENANCE				@Rs. 320 /DL			
	Cultural Operation including climber cutting, jungle clearing, etc	DLs	15	375	320	120000		
	Fire protection/ Cattle watching @ 1 DL/ 25 ha/ year	DLs	1	365	320	116800		
	<i>Sub total</i>					236800		
	<i>Grand Total</i>					4323450		

Note:

* subject to actual measurement in the field.

** subject to revision of schedule of rates.

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021


 Addl. Principal Chief Conservator of Forests &
 Chief Executive Officer, State CAMPA Assam
 Lankeshwar, Jalukbari, Guwahati-14

**ESTIMATE FOR CONSTRUCTION OF CHAIN LINK FENCE WITH R.C.C. POST
HAVING 2 LINES OF BARBED WIRE AT TOP AND ONE LINE AT BOTTOM**

Length of Chain link Fence	= Take 100.00 m
Height of Fence	= 1.50 m
Height of Chain link Fence	= 1.20 m
No. of RCC Post (125mm x 125 mm)	= 41 nos. at 2.50 m centre to centre
Height of RCC Post from Ground level	= 1.50 m
Depth of foundation	= 0.60 m

S. N.	DSR-2021 Item No.	Item Description	Unit	Rate (In Rs.)	Quantity	Amount (In Rs.)
01		Cost of RCC post (Estimate Enclosed)	Nos.	1,750.77	41	71,781.57
02	Analysis Rate (Annexure-I)	Cost of Chain link fence Supplying, fitting and fixing chain link fencing of 10 SWG G.I. Wire 50mm x 50mm mesh (hot dip quality) fitted to R.C.C. Post including supplying, fitting and fixing hooks, eye bolts including horizontal lines of G.I. wire 10 & 12 S.W.G. for keeping the fencing tight and erect complete. The rate includes the cost of labour charge and other taxes complete. 100.00 x 1.20 = 120.00 Sqm	Sqm	662.98	120.00	79,557.60
03	16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 15th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100 metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of total length of barbed wire used. 16.17.1 With G.I. barbed wire 12.45 100 x 3 = 300 M	metre	12.45	300.00	3735.00
Total cost of 100.00 m long chain link fencing with of R.C.C. post and barbed wire=						Rs. 1,55,074.17
Add 10% for additional head load=						Rs. 15,507.42
Cost of 100.00 long chain link fencing with R.C.C. post and barbed wire=						Rs. 1,70,581.59
Deduct 15% General Contractors charge for overhead and profit from total cost, as the work shall be executed through departmentally=						Rs. 25,587.24
Net cost of 100.00 long chain link fencing with R.C.C. post and barbed wire=						Rs. 1,44,994.35
Cost of the fence per running metre=						Rs. 1,449.94
Says=						Rs. 1,450.00
(Rupees One Thousand Four Hundred Fifty only)						

Note- The Rates considered from CPWD norms, Delhi Scheduled of Rates are inclusive of GST 14.05% & 1% Labour Cess, etc.

Prepared by

Om. dlu

Assistant Executive Engineer,
Assam State Zoo Division,
Guwahati-5


ESTIMATE FOR CONSTRUCTION OF RCC POST OF SIZE- 125 X 125 MM**(For chain link fencing works)**

Take for 5 Nos. of Post

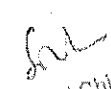
S. N.	DSR-2021 Item No.	Item Description	Unit	Rate (In Rs.)	Quantity	Amount (In Rs.)
01	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 1.0 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. Do for foundation- $5 \times 0.45 \times 0.45 \times 0.60 = 0.61 \text{ Cum}$	Cum	286.85	0.61	174.98
02	16.12	Dry brick pitching half brick thick in drains, etc., including supply of bricks and preparing the surface complete : 16.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Do for foundation bed- $5 \times 0.30 \times 0.30 = 0.45 \text{ Sqm}$	Sqm	607.20	0.45	273.24
03	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) In sub structure- $5 \times 0.30 \times 0.30 \times 0.15 = 0.07 \text{ Cum}$ $5 \times 0.125 \times 0.125 \times 0.375 = 0.03 \text{ Cum}$ Total = 0.10 Cum	Cum	8364.20	0.10	836.42
	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources). In super structure- $5 \times 0.125 \times 0.125 \times 1.50 = 0.12 \text{ Cum}$	Cum	10719.30	0.12	1,286.32

04	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
	5.9.1	5.9.1 Foundations, footings, bases of columns, etc. for mass concrete For bed of post $5 \times 1.20 \times 0.15 = 0.90$ Sqm	Sqm	307.95	0.90	277.16
	5.9.6	5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts For bed of post $5 \times 0.50 \times 1.875 = 4.69$ Sqm	Sqm	804.25	4.69	3,771.93
06	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. 5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more. Reinforcement TMT a) 8mm dia bar Bed- $5 \times 2 \text{ sides} \times 4 \text{ Nos.} \times 0.30 \times 0.395 = 4.74$ Kg Post- $5 \times 3 \text{ sides} \times 2.175 \times 0.395 = 12.89$ Kg Total = 17.63 Kg	KG	89.65	17.63	1,580.53
	5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level. 5.22A.1 Mild steel and Medium Tensile steel bars b) 6mm dia bar $5 \times 14 \times 0.40 \times 0.222 = 6.22$ Kg	KG	88.95	6.22	553.27
Total cost of 5 Nos. of R.C.C. post=						Rs. 8,753.85
Therefore, total cost of 1 Nos. of R.C.C. post=						Rs. 1,750.77
(Rupees One Thousand Seven Hundred Fifty and paisa Seventy Seven only)						

Prepared by



Assistant Executive Engineer,
Assam State Zoo Division,
Guwahati-5


 Addl. Principal Chief Conservator of Forests &
 Chief Executive Officer, State CAMPA Assam
 Lanakshwar, Jalukbari, Guwahati-14

ANNEXURE-I

RATE ANALYSIS FOR 10 SWG G.I. WIRE CHAIN LINK MESH SIZE- 50 X 50 MM

Consider Area = 100.00 Sqm

NOTE- RATES OF ALL MATERIALS & LABOURS ARE CONSIDER FROM THE PREVAILING MARKET

A. COST OF MATERIALS -					
SL. NO.	ITEM	UNIT	QUANTITY	MARKET RATE (IN Rs.)	AMOUNT (IN Rs.)
1.00	10 SWG G.I. wire of mesh size 50mm X 50 mm chainlink (Tata make hot dip quality)	SQM	100.00	408.48	40848.00
2.00	G.I. Wire (10 G. SWG)	KG	20.00	99.00	1980.00
3.00	G.I. Wire (12 G. SWG)	KG	5.00	99.00	495.00
SUB TOTAL=					43323.00
4.00	Transportation Charge			500.00	500.00
TOTAL=					43823.00
B. LABOUR CHARGE					
1	Semi skilled Labour	NOS.	5.00	700.00	3500.00
2	Unskilled Labour	NOS.	10.00	500.00	5000.00
TOTAL=					8500.00
TOTAL COST = COST OF MATERIALS + LABOUR CHARGE					
1	A + B				52323.00
2	Add 14.05 % GST				7351.38
					59674.38
3	Add 10% Contractor's profit				5967.44
					65641.82
4	Add 1% Labour Cess				656.42
GRAND TOTAL=					66298.24
RATE PER SQM. OF CHAINLINK FENCING = TOTAL COST / TOTAL AREA					
1	Total Amount				66298.24
2	Total Area				100.00
					662.98
Rs.=					662.98

Onedw

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NURSERY JOURNAL

.....DIVISION

.....RANGE

.....BEAT

.....RF / PRF

.....TYPE OF NURSERY

.....YEAR OF CREATION

Lee

1. AREA OF THE NURSERY:
2. DETAILS OF FENCING:
3. WHETHER PERMANENT OR TEMPORARY:
4. SCHEME UNDER WHICH NURSERY IS RAISED:
5. NO OF SEEDLINGS (SCHEME WISE) SPECIES WISE:
6. SITE SELECTION, TYPE OF SOIL, SOIL PROFILE:
7. LOCATION:
8. SOURCE OF WATER:
9. SEED
 - I) Collection
 - II) STORAGE
10. SEED TREATMENT:
11. PREPARATION OF PRIMARY BEDS:
12. SOIL MIXURE OF POLY POTS:
13. SIZE OF THE POLY POTS USED, GUAGE AND SOURCE OF SUPPLY:
14. PRIMARY BEDS (TO KEEP CONTAINER SEEDLINGS) OR

15. SECONDARY BEDS:
16. SOWING OF SEED IN PRIMARY BEDS/POLY POTS:
17. NURSERY TECHNIQUE ADOPTED:
18. WATERING SCHEDULE:
19. WEEDING SCHEDULE:
20. FERTILIZER USED, WITH DOSE AND SCHEDULE AND MODE OF APPLICATION
21. PEST CONTROL FUNGICIDES AND INSECTICIDES-DOSAGE MODE OF APPLICATION, FREQUENCY OF APPLICATION
22. GRADING OF SEEDLINGS/ACCORDING TO EACH GRADE:
23. EXPENDITURE STATEMENT - MONTH WISE, ITEM WISE WITH VOUCHER NUMBER :
24. OBSERVATIONS OF RANGE OFFICER, DIVISIONAL FOREST OFFICER AND CONSERVATOR OF FORESTS:
25. ACTION TAKEN, IF ANY, ON REMARKS MADE BY DIVISIONAL FOREST OFFICER/CONSERVATOR OF FORESTS AND OTHERS:

NORMS FOR CREATION 1.5 Ha NURSERY UNDER CAMPA

Number of Standard beds for raising naked seedlings	=	50
Number of Standard mother beds for raising polypot seedlings	=	20
Number of beds for arranging polypot seedlings	=	210
Total number of polypot seedlings to be raised	=	200,000
Total number of naked seedlings to be raised	=	20,000
Total number of Tall seedlings to be raised	=	1,000
Total number of seedling to be raised	=	221,000

Sl No.	Particulars of works	Unit	Quantity	Rate (Rs.)	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
						GST	Labour cess
1st Year Works							
			@Rs.	320*	/DL		
1	Site selection, survey, demarcation, jungle cutting, removal of stumps, slash disposal @ 50 DLs/ ha	DLs	75	320	24,000		
	<i>Sub Total</i>				24,000		
2	Construction of brick wall with chain link fencing (detailed estimate enclosed)	RM	550	2629	1,445,950		
	<i>Sub Total</i>				1,445,950	14.05%	1%
3	Preparation of 70 Standard beds (20 mother bed for polypots + 50 for naked seedlings/ stumps) by soil working etc. @ 1.5 DLs/ bed = 105 DLs	DLs	105	320	33,600		
4	Preparation of 210 beds for arranging polypot seedlings @ 4 bed/ DLs	DLs	53	320	16960		
5	Procurement of Bamboo for arranging polypots in the raised beds including ropes for tying etc.	No.	210	150	31500		
6	Procurement of quality seeds				25,000		
7	Cost of Procurement of fertile soil, river silt/ sand soil: 450 cu.m @ Rs.350/ cu.m including loading, transport and unloading.	cu.m	450	350	157,500		
8	Cost of Farm yard Manure 150 cu.m @ Rs.500/cu.m	cu.m	150	500	75,000		
9	Cost of fungicide, insecticide/pesticide etc. & their application				5,000		
10	Cost of sowing/ dibbling of seeds in standard/ mother beds @ 5 beds/ DL for 70 beds = 14 DLs	DLs	14	320	4,480		
11	Cost of perforated virgin HDPE black polyot inclusive of all taxes for a) 2,00,000 polypots 5 inch x 8 inch x 300 gauge = 7.6 quintals (approx 26,500 polyot per quintal) b) 1,000 polypots 12 inch x 18 inch x 300 gauge = 0.2 quintal	Qtl	7.8	26500	206,700		
12	Preparation of 2,00,000 polypots including sieving of soil, mixing of soil with manure, filling of soil in polypots, arranging the polypots in beds, transplanting seedlings as per silviculture requirement of species etc. (1 DL = 200 polypot per day) = 1000 DLs	DLs	1000	320	320,000		
13	Preparation of 1000 polypot seedlings for tall planting including cost of polypot preparation and upkeepment (1DL = 20 polypot per day) = 50 DLs	No.	50	320	16,000		
14	Shifting of polypot seedlings to avoid rooting in soil atleast twice in a year @ 1000 polypot /DL = 402 DLs	DLs	402	320	128,640		
15	Providing temporary shed using agronet for shade demanding species (both bareroot & polypot) including purchase of bamboo posts etc.				30,000		
16	Watering of 70 beds & 2.01 Lakh polypots as and when necessary @ 150 beds/ DL X 90 days (180 days of lean period) = 168 DLs	DLs	168	320	53,760		
17	Weeding of 70 beds and 2.01 Lakh polypots (210 beds) @ 3 beds/ DL X 5 weeding/ year = 466 DLs	DLs	466	320	149,120		
18	Protection work, cattle watching, and upkeepment of nursery works - 365 DLs	DLs	365	320	116,800		

19	Cost of tools, implements, signboard (RCC), bed wise signage (Rs. 100/ signage showing details of species, date of showing/ transplanting and number of plants) etc.				100,000		
20	Installation of Ring well/ Tube well, construction of overhead/ storage tank, purchase of motor for waterpumping, laying of underground pipelines for irrigation (atleast 500 RM), purchase of generator set/electricity connection	No.	1	300000	300,000		
21	Construction of vermicompost pit : 1 units @ Rs. 40,000	No.	1	40000	40,000		
22	Construction of Camp hut with accessories				500,000		
23	Construction of Inspection path & approach road	LS			75,000		
24	Awareness meetings, Monitoring & Evaluation works				50,000		
25	Overhead, Administrative expenditure & Contingency @ 1% of project cost				38,940		
<i>Sub total</i>					2,474,000		

Note:

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021

NORMS FOR CREATION OF 3 Ha. NURSERY UNDER CAMPA

Number of Standard beds for raising naked seedlings	=	50
Number of Standard mother beds for raising polypot seedlings	=	40
Number of beds for arranging polypot seedlings	=	450
Total number of polypot seedlings to be raised	=	400,000
Total number of naked seedlings to be raised	=	20000
Total number of Tall seedlings to be raised	=	5000
Total number of seedlings to be raised	=	425,000


Sl No.	Particulars of works	Unit	Quantity	Rate (Rs.)	Amount (Rs.)	Applicable rate of GST/ Cess etc.	
						GST	Labour Cess
	1st Year Works						
			@Rs.	320/DL			
1	Site selection, survey, demarcation, jungle cutting, burning @ 50 DLs/ha	DLs	150	320	48,000		
	<i>Sub Total</i>				48,000		
2	Construction of brick wall with chain link fencing (detailed estimate enclosed)	RM	800	2629	2,103,200		
	<i>Sub Total</i>				2,103,200	14.05%	1%
3	Preparation of 90 Standard beds (30 mother bed for polypots + 60 for naked seedlings/ stumps) by soil working etc. @ 1.5 DLs/ bed = 135 DLs	DLs	135	320	43,200		
4	Preparation of 450 beds for arranging polypot seedlings @ 4 bed/ DLs	DLs	113	320	36160		
5	Procurement of Bamboo for arranging polypots in the raised beds including ropes for tying etc.	No.	450	150	67500		
6	Procurement of quality seeds				50,000		
7	Cost of Procurement of fertile soil, river silt/ sandy soil: 900 cu.m @ Rs.300/ cu.m including loading, transport and unloading.	cu.m	900	300	270,000		
8	Cost of Farm yard Manure & Vermi-compost: 300 cu.m @ Rs.500/cu.m	cu.m	300	500	150,000		
9	Cost of fungicide, insecticide/pesticide etc. & their application				10,000		
10	Cost of sowing/ dibbling of seeds in standard/ mother beds @ 5 beds/ DL for 90 beds = 18 DLs	DLs	18	320	5,760		
11	Cost of perforated virgin HDPE black polypot inclusive of all taxes for a) 4,00,000 polypots 5 inch x 8 inch x 300 gauge = 15.2 quintals (approx 26,500 polypot per quintal) b) 5,000 polypots 12 inch x 18 inch x 300 gauge = one quintal	Qtl	16.2	26500	429,300		
12	Preparation of 4,00,000 polypots including sieving of soil, mixing of soil with manure, filling of soil in polypots, arranging the polypots in beds, transplanting seedlings as per silviculture requirement of species etc. (1 DL = 200 polypot per day) = 2000 DLs	DLs	2000	320	640,000		
13	Preparation of 5000 polypot seedlings for tall planting including cost of polypot preparation and upkeepment (1 DL = 20 polypot per day) = 250 DLs	No.	250	320	80,000		
14	Shifting of polypot seedlings to avoid rooting in soil atleast twice in a year @ 1000 polypot /DL = 810 DLs	DLs	810	320	259,200		
15	Providing temporary shed using agronet for shade demanding species (both bareroot & polypot) including purchase of bamboo posts etc.				50,000		
16	Watering of 90 beds & 4.05 Lakh polypots as and when necessary @ 150 beds/ DL X 90 days (180 days of lean period) = 324 DLs	DLs	324	320	103,680		
17	Weeding of 90 beds and 4.05 Lakh polypots (450 beds) @ 3 beds/ DL X 5 weeding/ year = 900 DLs	DLs	900	320	288,000		
18	Protection work, cattle watching, and upkeepment of nursery works - 365 DLs	DLs	365	320	116,800		
19	Cost of tools, implements, signboard (RCC), bed wise signage (Rs. 100/ signage showing details of species, date of showing/ transplanting and number of plants) etc.				100,000		

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20	Installation of Ring well/ Tube well, construction of overhead/ storage tank, purchase of motor for waterpumping, laying of underground pipelines for irrigation (atleast 1000 RM), purchase of generator set/ electricity connection	No.	1	300000	300.000		
21	Construction of vermicompost pit : 2 units @ Rs. 40,000	No.	2	40000	80.000		
22	Construction of Camp hut with accessories				500.000		
23	Construction of Inspection path & approach road	LS			75.000		
24	Capacity Building of frontline staffs/ NGO/ JFMC / PRI members, Awareness/ Sensitisation programmes, motivational campaigns, organisation of Workshops, meetings and exposure visit of all the stakeholders for conservation and protection of forests and wildlife (minimum 6 programmes)				300.000		
25	Overhead, Administrative expenditure & Contingency @ 1% of project cost				65.400		
				<i>Sub total</i>	4,020,000		

Note:

The rates of fencing have been considered from CPWD norms as per Delhi Scheduled Rates 2021


 Addl. Principal Chief Conservator of Forests
 Chief Executive Officer, State CAMPA
 Ankeshwar, Jalukbari, Guwahati-1

NORMS FOR MAINTENANCE 1.5 ha NURSERY UNDER CAMPA

Number of Standard beds for raising naked seedlings	=	25
Number of Standard mother beds for raising polypot seedlings	=	10
Number of beds for arranging polypot seedlings	=	110
Total number of polypot seedlings to be raised	=	100,000
Total number of naked seedlings to be raised	=	10,000
Total number of Tall seedlings to be raised	=	1,000
Total number of seedling to be raised	=	111,000

Sl No.	Particulars of works	Unit	Quantity	Rate (Rs.)	Amount (Rs.)	Applicable Rate of GST/Cess etc	
			@Rs.	320 /DL		GST	Labour cess
1	Maintenance of Chain link fencing including repairing of fencing				10,000		
2	Preparation of 35 Standard beds (10 mother bed for polypots + 25 for naked seedlings/ stumps) by soil working etc. @ 1.5 DLs/ bed = 53 DLs	DLs	53	320	16,960		
3	Preparation of 110 beds for arranging polypot seedlings @ 4 bed/ DLs	DLs	28	320	8960		
4	Procurement of Bamboo for arranging polypots in the raised beds including ropes for tying etc.	No.	110	150	16500		
5	Procurement of quality seeds				12,000		
6	Cost of Procurement of fertile soil, river silt/ sand soil: 225 cu.m @ Rs.300/ cu.m including loading, transport and unloading.	cu.m	225	300	67,500		
7	Cost of Farm yard Manure & Vermi-compost: 75 cu.m @ Rs.500/cu.m	cu.m	75	500	37,500		
8	Cost of fungicide, insecticide/pesticide etc. & their application				2,500		
9	Cost of sowing/ dibbling of seeds in standard/ mother beds @ 5 beds/ DL for 35 beds = 7 DLs	DLs	7	320	2,240		
10	Cost of perforated virgin HDPE black polyot inclusive of all taxes for a) 1,00,000 polypots 5 inch x 8 inch x 300 gauge = 3.8 quintals (approx 26,500 polypot per quintal) b) 1,000 polypots 12 inch x 18 inch x 300 gauge = 0.2 quintal	Qtl	4	20000	80,000		
11	Preparation of 1,00,000 polypots including sieving of soil, mixing of soil with manure, filling of soil in polypots, arranging the polypots in beds, transplanting seedlings as per silviculture requirement of species etc. (1 DL = 200 polypot per day) = 500 DLs	DLs	500	320	160,000		
12	Preparation of 1000 polypot seedlings for tall planting including cost of polypot preparation and upkeepment (1DL = 20 polypot per day) = 50 DLS	No.	50	320	16,000		
13	Shifting of polypot seedlings to avoid rooting in soil atleast twice in a year @ 1000 polypot /DL = 201 DLs	DLs	201	320	64,320		
14	Providing temporary shed using agronet for shade demanding species (both bareroot & polypot) including purchase of bamboo posts etc.				12,500		
15	Watering of 35 beds & 1.01 Lakh polypots (110 beds) as and when necessary @ 150beds/ DL X 90 days (180 days of lean period) = Total 145 beds X 90 days.	DLs	90	320	28,800		
16	Weeding of 35 beds and 1.01 Lakh polypots (110 beds) @ 3 beds/ DL X 5 weeding/ year = 242 DLs	DLs	242	320	77,440		
17	Protection work, cattle watching, fencing repairing and upkeepment of nursery works - 365 DLs	DLs	365	320	116,800		
18	Cost of tools, implements, signboard, bed wise signage (Rs. 100/ signage) - showing details of species, date of showing/ transplanting and number of plants) etc.				25,000		
19	Transportation of materials & seedlings for free distribution etc.				10,000		
20	Awareness, Monitoring & Evaluation works				5,000		
21	Overhead, Administrative expenditure & Contingency				14,980		
Grand Total = Rs.					785,000	NA	NA

NORMS FOR MAINTENANCE OF 3 ha NURSERY UNDER CAMPA

Number of Standard beds for raising naked seedlings	=	25
Number of Standard mother beds for raising polypot seedlings	=	20
Number of beds for arranging polypot seedlings	=	200
Total number of polypot seedlings to be raised	=	200,000
Total number of naked seedlings to be raised	=	10,000
Total number of Tall seedlings to be raised	=	5,000
Total number of seedlings to be raised	=	215,000

Sl No.	Particulars of works	Unit	Quantity	Rate (Rs.)	Amount (Rs.)	Applicable Rate of GST/Cess etc	
						GST	Labour cess
			@Rs.	320	/DL		
1	Maintenance of Chain link fencing including repairing of fencing				20000		
2	Preparation of 45 Standard beds (10 mother bed for polypots + 25 for naked seedlings/ stumps) by soil working etc. @ 1.5 DLs/ bed = 68 DLs	DLs	68	320	21,760		
3	Preparation of 225 beds for arranging polypot seedlings @ 4 bed/ DLs	DLs	56	320	17920		
4	Procurement of Bamboo for arranging polypots in the raised beds including ropes for tying etc.	No.	225	150	33750		
5	Procurement of quality seeds				25,000		
6	Cost of Procurement of fertile soil, river silt/ sandy soil: 450 cu.m @ Rs.300/ cu.m including loading, transport and unloading.	cu.m	450	300	135,000		
7	Cost of Farm yard Manure & Vermi-compost: 150 cu.m @ Rs.500/cu.m	cu.m	150	500	75,000		
8	Cost of fungicide, insecticide/pesticide etc. & their application				5,000		
9	Cost of sowing/ dibbling of seeds in standard/ mother beds @ 5 beds/ DL for 45 beds = 9 DLs	DLs	9	320	2,880		
10	Cost of perforated virgin HDPE black polypot inclusive of all taxes for a) 2,15,000 polypots 5 inch x 8 inch x 300 gauge = 7.6 quintals (approx 26.500 polypot per quintal) b) 5,000 polypots 12 inch x 18 inch x 300 gauge = 1 quintal	Qtl	8.6	20000	172,000		
11	Preparation of 2,00,000 polypots including sieving of soil, mixing of soil with manure, filling of soil in polypots, arranging the polypots in beds, transplanting seedlings as per silviculture requirement of species etc. (1 DL = 200 polypot per day) = 1000 DLs	DLs	1000	320	320,000		
12	Preparation of 5000 polypot seedlings for tall planting including cost of polypot preparation and upkeepment (1 DL = 20 polypot per day) = 250 DLs	No.	250	320	80,000		
13	Shifting of polypot seedlings to avoid rooting in soil atleast twice in a year @ 1000 polypot /DL = 410 DLs	DLs	410	320	131,200		
14	Providing temporary shed using agronet for shade demanding species (both bareroot & polypot) including purchase of bamboo posts etc.	LS			15,000		
15	Watering of 45 beds & 2.05 Lakh polypots (250 beds) as and when necessary @ 150 beds/ DL X 90 days (180 days of lean period) = 177 DLs	DLs	177	320	56,640		
16	Weeding of 45 beds and 2.05 polypots (250 beds) @ 3 beds/ DL X 5 weeding/ year = 492 DLs	DLs	492	320	157,440		
17	Protection work, cattle watching, fencing repairing and upkeepment of nursery works - 365 DLs	DLs	365	320	116,800		
18	Cost of maintenance of tools, implements, signboard, bed wise signage (signage showing details of species, date of showing/ transplanting and number of plants) etc.				25,000		
19	Capacity Building of frontline staffs/ NGO/ JFMC / PRI members, Awareness/ Sensitisation programmes, motivational campaigns, organisation of Workshops, meetings and exposure visit of all the stakeholders for conservation and protection of forests and wildlife (minimum 6 programmes)				150,000		

655485/2022/NA

Sl No.	Particulars of works	Unit	Quantity	Rate (Rs.)	Amount (Rs.)	Applicable Rate of GST/Cess etc	
						GST	Labour cess
20	Development of awareness materials and printing of brochures, pamphlets, banners etc.				50,000		
21	Transportation of materials & seedings for free distribution etc.				25,000		
22	Overhead, Administrative expenditure, Monitoring & Contingency				23,610		
Grand Total = Rs.					1,659,000	NA	NA

655485/2022 **ESTIMATE FOR CONSTRUCTION OF BRICK WALL WITH CHAIN LINK FENCE****(Taken for 10.00 running meter)**

Sl No.	DSR 2021 Item No.	Item description	Unit	Quantity	Rate	Amount (In Rs.)
1	2.8	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. 2.8.1 All kinds of soil. Post-5x0.30x0.30x0.60 =0.27 Cum Tie Beam-8.80x0.225x0.275=0.54 Cum Total =0.81 Cum	Cum	0.81	286.85	232.35
2	16.12	Dry brick pitching half brick thick in drains, etc., including supply of bricks and preparing the surface complete : 16.12.1 With common burnt clay F.P.S. (non modular) bricks of class designation 7.5. Post-5x0.30x0.30x =0.45 Sqm Tie Beam-9.40x225 =2.12 Sqm Total =2.57 Sqm	Sqm	2.57	607.20	1,560.50
3	5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 5.1.2 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources) In sub structure- Bed - 5 x 0.30 x 0.30 x 0.15 = 0.08 Cum Post up to G.L.- 5 x 0.125 x 0.125 x 0.375 = 0.04 Cum Tie Beam- 9.40x0.15x0.20 = 0.28 Cum Total = 0.40 Cum	Cum	0.40	8364.20	3,345.68
	5.3	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings,				

		balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement: 1.5 coarse sand (zone-III) derived from natural sources: 3 graded stone aggregate 20 mm nominal size derived from natural sources). In super structure- $5 \times 0.15 \times 0.15 \times 1.50 = 0.17 \text{ Cum}$	Cum	0.17	10,719.30	1,822.28
4	5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
	5.9.5	5.9.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers. Tie Beam - $9.40 \times 0.20 \times 2 = 3.76 \text{ Sqm}$	Sqm	3.76	608.35	2,287.40
	5.9.6	5.9.6 Columns, Pillars, Piers, Abutments, Posts and Struts. Post - $5 \times 0.60 \times 1.875 = 5.63 \text{ Sqm}$	Sqm	5.63	804.25	4,527.93
5	5.22.6	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
	5.22.6	5.22.6 Thermo-Mechanically Treated bars of grade Fe-500D or more. a) Reinforcement TMT- 8mm dia rod for bed of post and post = 0.20 qtl. 10mm dia rod for Tie Beam = 0.25 qtl. Total = 0.45 qtl. = 45 Kg	Kg	45.00	89.65	4,034.25
	5.22.1	5.22.1 Mild steel and Medium Tensile steel bars b) M.S. Rod-6mm dia bar for stirrup = 0.20 Qntl. = 20 Kg	Kg	20.00	88.95	1,779.00
6	6.3	Brick work with common burnt clay machine moulded perforated bricks of class designation 12.5 conforming to IS: 2222 in superstructure above-plinth level up to floor five level in cement mortar 1:6 (1 cement : 6 coarse sand) : 6.3.2 With Modular bricks 75mm thick wall- $9.40 \times 0.90 \times 0.075 = 0.635 \text{ Cum}$	Cum	0.635	7,814.65	4,962.30

655485/2022/NA	13.2	15 mm cement plaster on the rough side of single or half brick wall of mix : 13.2.1 1:4 (1 cement: 4 fine sand) Wall- 10.00x0.90x2 =18.00 Sqm Top of wall-9.40x0.075 = 0.71 Sqm Total = 18.71 Sqm	Sqm	18.71	339.70	6,355.787
8	Analysis Rate (Annexure -I)	Supplying, fitting and fixing chain link fencing of 10 SWG G.I. Wire 50mm x 50mm mesh (hot dip quality) fitted to R.C.C. Post including supplying, fitting and fixing hooks, eye bolts including horizontal lines of G.I. wire 10 & 12 S.W.G. for keeping the fencing tight and erect complete. The rate includes the cost of labour charge and other taxes complete. 10.00 x 0.60 =6.00 Sqm	Sqm	6.00	669.32	4,015.92
9	13.37	White washing with lime to give an even shade : 13.37.1 New work (three or more coats) Wall-2x10.00x0.90 =18.00 Sqm Top of Wall-9.40x0.075 = 0.71 Sqm Post-5x0.60x0.60 = 1.80 Sqm Top of Post-5x0.15x0.15= 0.11 Sqm Total= 20.62 Sqm	Sqm	20.62	32.45	669.12
Total cost for 10.00 running meter of fence, Rs.						35,592.52
Deduct 15% General Contractors charge for overhead and profit from total cost as the work shall be executed through departmentally, Rs.						5,338.88
Net cost for 10.00 running meter of fence, Rs.						30,253.64
Therefore, total cost for 1.00 running meter of fence, Rs.						3,025.36
Therefore, total cost of 550.00 running meter of fence, Rs.						16,63,948.00
Say, Rs.						16,64,000.00
(Rupees Sixteen Lakh Sixty Four Thousand Only)						

Note- The Rates considered from CPWD norms, Delhi Scheduled of Rates are inclusive of GST 14.05% & 1% Labour Cess, etc.

Prepared by

[Signature]

Assistant Executive Engineer,
Assam State Zoo Division,
Guwahati-5

[Signature]


ANNEXURE- I


RATE ANALYSIS FOR 10 SWG G.I. WIRE CHAIN LINK MESH SIZE- 50 X 50 MM

Consider Area = 100.00 Sqm

NOTE- RATES OF ALL MATERIALS & LABOURS ARE CONSIDER FROM THE PREVAILING MARKET

A. COST OF MATERIALS -					
SL. NO.	ITEM	UNIT	QUANTITY	MARKET RATE (IN Rs.)	AMOUNT (IN Rs.)
1.00	10 SWG G.I. wire mesh size 50mm X 50 mm chainlink (Tata make hot dip quality)	SQM	100.00	408.48	40848.00
2.00	G.I. Wire (10 G. SWG)	KG	20.00	99.00	1980.00
3.00	G.I. Wire (12 G. SWG)	KG	5.00	99.00	495.00
4.00	Hooks, eye bolts, etc.				500.00
				SUB TOTAL=	43823.00
5.00	Transportation Charge			500.00	500.00
				TOTAL=	44323.00
B. LABOUR CHARGE					
1	Semi skilled Labour	NOS.	5.00	700.00	3500.00
2	Unskilled Labour	NOS.	10.00	500.00	5000.00
				TOTAL=	8500.00
TOTAL COST = COST OF MATERIALS + LABOUR CHARGE					
1	A + B				52823.00
2	Add 14 .05 % GST				7421.63
					60244.63
3	Add 10% Contractor's profit				6024.46
					66269.09
4	Add 1% Labour Cess				662.69
				GRAND TOTAL=	66931.79
RATE PER SQM. OF CHAIN LINK FENCING = TOTAL COST / TOTAL AREA					
1	Total Amount				66931.79
2	Total Area				100.00
	Rate per Sqm.				669.32
				Rs.=	669.32


 Assistant Executive Engineer
 Assam State Zoo Division
 Guwahati-5


 Addl. Principal Chief Conservator of Forests &
 Chief Executive Officer, State CAMPA Assam
 Lankeshwar, Jaiskhan, Guwahati-14

GOVERNMENT OF ASSAM
OFFICE OF THE PRINCIPAL CHIEF CONSERVATOR OF FORESTS, WILDLIFE AND
CWLW, ASSAM, ARANYA BHAWAN, PANJABARI, GUWAHATI-37

Email ID: pcwf.wl.assam@gmail.com

No. WL/FD/CAMPA/APO/2021-22

Date: 22.10.2021.

To:

The Addl. Principal Chief Conservator of Forests &
CEO, State CAMPA, Assam
Lankestwar, Jalukbari, Ghy-14.

Sub: Proposal for creating awareness regarding vulture conservation by establishing vulture release aviary at Rani.

Ref: This office letter no. WL/FD/CAMPA/APO/2021-22 dated 19.10.2021.

In continuation to my letter referred above this is to inform you that a Vulture Breeding Centre is functional at Rani for the last one decade in collaboration with BNHS. This Vulture Breeding Centre has been instrumental in creating awareness among the local population regarding vulture conservation. This centre is also working as Rescue Centre for these carrion eating birds, which get poisoned due to rampant use of Diclofenac and other such chemicals/medicine.

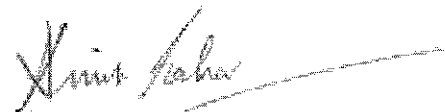
To facilitate the release of rescued birds as well as vultures bred at the centre, it is proposed to establish a Vulture Release Aviary at a total estimated cost of Rs. 25.53 lakhs. Since this aviary would create awareness among the farmers and cattle rears against the use of Diclofenac and other such banned chemicals, thus, it could be considered under the Publicity Program of State CAMPA.

Encls: As stated above.


(Dr. Amit Sahai, IFS)

Principal Chief Conservator of Forests, Wildlife
Assam, Aranya Bhawan, Panjabari, Ghy.

Copy to the Principal Chief Conservator of Forests and HoFF, Assam, Panjabari for favour of her kind for information.



Principal Chief Conservator of Forests, Wildlife
Assam, Aranya Bhawan, Panjabari, Ghy.



Prodyut Kumar Roy

Mob : 9434890534

Govt. Contractor and General Order Suppliers.

Buxa Feeder Road, P.O. Damanpur, Dist. Alipurduar (W.B.) Pin - 736123

Ref. No.

QuotationDate 30/09/21

To,
The Director
Bombay Natural History Society
Rani, Assam

Dated: 30th September 2021

Subject: Quotation for construction of Release aviary as per PWD schedule Assam

Sl No.	Items	Rate in Rs.
01.	Construction cost of Pre-release aviary, hide and remotely open able gate with pulley:	17,13,060.00
	Details of Works	
	a. Bricks 9,800 numbers @ Rs 15.00 = Rs. 1,47,000.00	
	b. M.S. Square pipe (3" x 1") 24 numbers @ Rs. 6,300.00 = Rs. 1,51,200.00	
	c. M.S. Square pipe (2" x 1") 120 numbers @ Rs. 1,400.00 = Rs. 1,68,000.00	
	d. Sand 1200 cft @ Rs. 60.00 = Rs. 72,000.00	
	e. Cement 120 bag @ 450.00 = Rs. 54,000.00	
	f. Welding charges L.S. = Rs. 70,000.00	
	g. Construction Labour charges L.S. = Rs. 1,05,000.00	
	h. Remotely open able gate setting (Chain and pulley) L.S. = Rs. 45,000.00	
	i. Netlon 1000 sq meter @ Rs. 450.00 = Rs. 4,50,000.00	
	j. Netlon installation charges L.S. = Rs. 40,000.00	
	k. Primer and paint on iron bars L.S. = Rs. 16,000.00	
	l. PCC and boulder soling charges 72 m X 1.20m X 0.30 = 25.92 m ² @ Rs 7,000.00 = Rs. 1,81,439.00	
	m. Rough sand filling 4000 cft @ Rs. 30.00 = Rs. 1,20,000.00	
	n. Earth Cutting 25.92 m ² @ Rs. 730.00/m ² = Rs. 18,921.00	
	o. Lime paint L.S. = Rs. 15,000.00	
	p. 1.5 inch iron angel 300 kg. @ Rs. 115.00 = Rs. 34,500.00	
	q. Carrying charges L.S. = Rs. 25,000.00	
02.	CCTV camera system, one speed dome and four fixed focus cameras:	2,50,000.00
03.	Solar Power fencing with installation charges:	5,90,000.00

Total Cost of Construction including GST (As applicable):
Rs. Twenty five lakh fifty three thousand and sixty only.

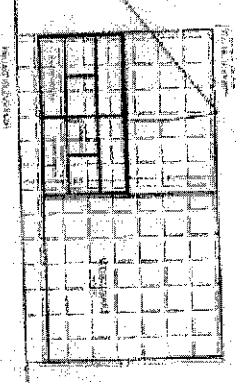
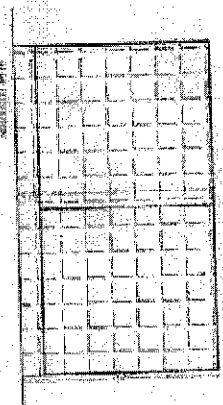
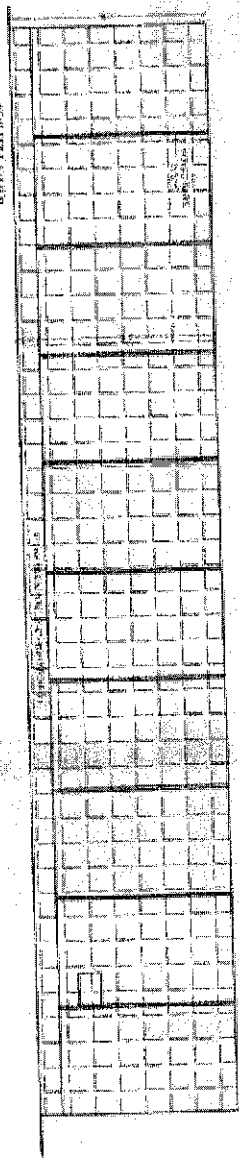
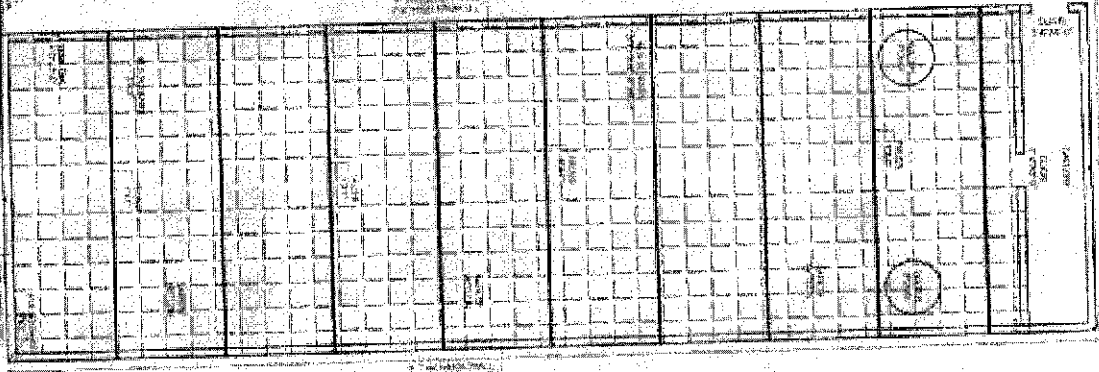
Rs. 25, 53,060.00

Yours Faith fully,

Prodyut Kumar Roy

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202

655485/2022/NA **Proposal related to Publicity & Awareness and Capacity Development for the APO of 2022-23 under State CAMPA, Assam**

Sl. no	Name of the Division	Proposals for supporting conservation activities (Publicity & Awareness/Capacity Dev. Work)	capacity development work Estimated amount (in Rs.)	publicity & Awareness work Estimated amount (in Rs.)
Lower Assam Zone				
CAC, Guwahati				
1	Kamrup West Division	Meeting on reduce Man-Animal conflict (2 nos.)		60000
		Dolphin conservation awareness campaign at Kulshi Range		60000
2	North Kamup Divn.	Publicity cum awareness meeting of forest Dept. with police, dist. Admin on conservation, protection of forest resources and Wildlife in six Ranges		300000
SAC, Sitchar				
3	Karinganj Division	Documentation of Bio diversity		300000
		Organizing various competitions like drawing, essay, painting etc on wildlife week, Earth day etc.		230000
Social Forestry Wing				
LASFC				
4	SF Goalpara Divn.	Agar promotion campaign 3 nos.		300000
PCCF, WL				
5	Manash Tiger Reserve Forest	Publicity and Awareness camp		500000
6	Assam State Zoo	Awareness program for vulture conservation by establishing Vulture release Aviary at Rani RF		2553000
7	Mangoldoi WL	Organization of Awareness camp, celebration of WL weeks etc.		500000
8	Guwahati WL Divn.	Signage and awareness (5 locations)		320000
REWP, Guwahati				
9	Silviculturist	Study on assesment of Forest Ecosystem service at Garbhanga RF	2000000.00	
		Publicity & publication of books		120000
		Artificial vegetative propagation of Hollong & Mekai, Vanila	1000000.00	
10	Genetic Cell Division	Creation of Research plot for study of Garcenia species	300000.00	
		Survey demarcation of GIS mapping of existing seed production area	500000.00	
Total			3800000	5243000

U. Boteb
 BS
 16/03/22



GOVERNMENT OF ASSAM
 OFFICE OF THE DIVISIONAL FOREST OFFICER, KAMRUP EAST DIVISION,
 BASISTHA, GUWAHATI-29.

E-mail: dfo.t.kamrupeast@gmail.com

Letter No.A/RE/CAMPA/Plantation/460-62

Date: 08/03/2022

To,

The Addl. Principal Chief Conservator of Forests
 Lower Assam Zone, Basistha, Guwahati

Sub: Proposal for carrying out high density planting as per Miyawaki Model

Ref: Telephonic discussion held with CEO, CAMPA on 04/03/2022

Sir,

With reference to the subject cited above, I would like to propose herewith two locations under Kamrup East Division for carrying out high density planting as per the Miyawaki Model.

Miyawaki model is a high-density planting for urban landscapes and can be used as a green belt development. The Miyawaki methodology is seen to be successful worldwide irrespective of soil and climate and is a technique which is about 30 times more dense than conventional plantations.

Hence two locations have been identified under Kamrup East Division to carry out the high-density plantation and which can later be replicated to create green belt around industries in and around Guwahati city.

1. Area of 2 ha has been identified under South Guwahati Range, which is about 500 mts. from Lokhra Charial. The GPS co-ordinates of the proposed nursery site are:

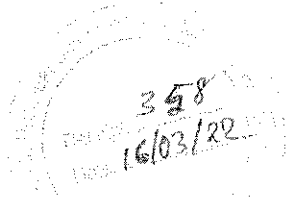
- a. N26°06'18.5" E91°44'50.3"
- b. N26°06'17.7" E91°44'50.2"
- c. N26°06'16.1" E91°44'49.8"
- d. N26°06'15.0" E91°44'49.4"
- e. N26°06'15.0" E91°44'47.6"

The Google Map along with the polygon of the proposed plantation site is enclosed as Annexure-I

2. Area of 2 ha has been identified under Sonapur Range, which is about 400 mts. from Topatoli Beat Office

- a. N26° 5'47.46" E 92° 9'57.77"
- b. N26° 5'49.41" E 92° 10'0.06"
- c. N26° 5'44.71" E 92° 10'3.50"
- d. N26° 5'42.88" E 92° 10'1.01"
- e. N26° 5'45.23" E 92° 9'57.58"

The Google Map along with the polygon of the proposed plantation site is enclosed as Annexure-II



Further, the proposed estimate for both the plantation is enclosed as **Annexure -III**.

Hence the total fund requirement for carrying out the above two plantations under Miyawaki model is estimated to be Rs. 43,43,720

(Rupees forty three lakhs forty three thousand and seven hundred and twenty only).
However, the exact amount shall be subject to the actual measurements of the work in the field.

In view of the above, it is requested to kindly approve the above proposal and place the same for sanctioning the amount from the state CAMPA.

This is for favour of your kind information and necessary action please.

Yours faithfully

Digitally signed by Rohini
Ballave Saikia
Date: 2022.03.08 16:25:49
+05'30'

Divisional Forest Officer,
Kamrup East Division, Basistha,
Guwahati-29.

Date: 08/03/2022

Copy for kind information to:

1. The Addl. Principal Chief Conservator of Forests and Chief Executive Officer, State CAMPA, Assam, Lankeshwar, Jalukbari, Guwahati-14
2. The Chief Conservator of Forests (T), Central Assam Circle, Basistha, Guwahati - 29 for favour of his kind information.

Rohini
Ballave Saikia
Digitally signed by
Rohini Ballave Saikia
Date: 2022.03.08
18:26:00 +05'30'

Divisional Forest Officer,
Kamrup East Division, Basistha,
Guwahati-29

Norms for 2 Ha. Miyawaki Plantation

Area (ha.):	2
Number of saplings/ ha:	20,000
Length of Fence (RM):	560
Wage Rate (Rs.):	320
Increase in wage rate for subsequent years by a factor:	1.1

Sl. No.	Particular of works	Units	Qty/ Ha	Total Qty	Rate/ Unit	Amt. (Rs)
A	ERECTION OF FENCING					
	(a) Cost of full chain link fencing (4' ht with 10 gauge 3" dia link) with 3 strand barbed wire (one strand below the chain link and two strand above the chain link) to be filled on pre-cast RCC pillars of specification and size (2.1 m x 0.125 m x 0.125 m) as per detail specification attached at 2.5 m apart, including transportation, fitting & fixing for 1200 RM @Rs. 1260 /- RM as per estimate	RM		560	1260	7,05,600
	Sub Total					7,05,600
B	INFRASTRUCTURE IN PLANTATION AREA					0
	Cost of tools & implements	Set		1	10000	10,000
	Cost of RCC Signboard & Gate including fitting & fixing of the same	Nos		1	40000	40,000
	Sub Total					50,000
C	ADVANCE WORK					
	Raising of Nursery for creation including vacancy filling for 3 years (25% + 15% +10%) and site nursery mortality 15% by using polypots	Nos	6500	13000	10	1,30,000
	Site selection, surveying, demarcation, jungle cutting, slash disposal etc. 50 DLs/ha	DLs	50	100	320	32,000
	Sub Total					1,62,000
D	CREATION					
	Soil working, carriage of stumps, polypot seedlings and planting at the plantation site including dibbling of seeds wherever necessary to complete raising of plantation with all necessary operation @ 50 Dis/ha	DLs	50	250	320	80,000
	Sub Total					80,000
E	1ST YEAR MAINTENANCE					

655485/2022/NA

	4 weeding, mulching and fire protection works @ 50 DLs/ha/weeding	DLs	200	400	320	1,28,000
	Contingency	LS				10,000
	Sub Total					1,38,000
	2ND YEAR MAINTENANCE					
	4 weeding, mulching and fire protection works @ 50 DLs/ha/weeding	DLs	200	400	320	1,28,000
	25% vacancy filling by 1 year old seedlings from nursery @ 50 DLs/ha	DLs	50	100	320	32,000
F	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (2 DL for 365 days)	DLs	2	365	320	2,33,600
	Contingency	LS				10,000
	Sub Total					4,03,600
	3RD YEAR MAINTENANCE					
	4 weeding, mulching and fire protection works @ 40 DLs/ha/weeding	DLs	160	320	320	102400
	15% vacancy filling by 2 years old seedlings from nursery @ 23 DLs/ha	DLs	23	115	320	36800
G	Maintenance and protection by way of deploying of watch & ward for site nursery & plantation area (2 DL for 365 days)	DLs	2	365	320	233600
	Contingency	LS				10000
	Sub Total					382800
	Grand total					19,22,000
	Adding 12 % GST and 1% labour cess					2,49,860
	Total amount					21,71,860

Rupees twenty-one lakhs seventy-one thousand eight hundred and sixty only

Submitted
 Rohini Ballave Digitally signed by Rohini Ballave Saikia
 Date: 2022.09.08 18:26:22 +05'30'
 Saikia
 Divisional Forest officer
 Kamrup East Division

CREATION OF GRASS ENCLOSURE FOR GRASSLAND MANAGEMENT AT MANAS TIGER RESERVE

Grassland management is an important component of habitat intervention at the Manas Tiger Reserve. Ensuring sufficient and quality grasslands safeguard an adequate prey base for apex predators like the tiger and leopard. However, due to an increasing interface with humans and livestock, grasslands are impacted with weed invasion besides successional changes such as woodland encroachment, which need to be arrested prior to climax so that area under grasslands does not get diminished.

It may be noted, that any intervention for grassland management needs to be an ongoing exercise in order to prevent invasive species as well as woodlands from taking over. This is because of the fact that there are several agents of dispersal like wind, livestock and even tires of vehicles traversing the protected area which can spread these invasives.

As of now, invasives have been cut, uprooted and ploughed altogether as a management intervention apart from the annual grassland burning which is carried out to propagate a new flush of grass. Woodland encroachment is largely accomplished by uprooting trees as well as by girdling them, the latter resulting in death of the tree in a period of three to four years.

It is now intended to create grass enclosures as practiced at the Kanha Tiger Reserve, Madhya Pradesh at Manas, in order to recover grassland areas which are heavily invaded with weed species and/or woodland encroachment.

METHOD

An area with heavily invaded with weed species and/or woodland encroachment shall be selected. This area shall be fenced off using solar fencing as Manas is an elephant, rhino, wild buffalo and Bison habitat which may overgraze the area preventing it from regenerating to the extent required.

Cost involved: Rs. 2 lakhs per kilometer

Consequent to fencing off the area, all invasive species and encroached trees shall be uprooted manually as well as by employing mechanical means such as a tractor/excavator. Native grass species shall be left intact. This shall be a labor-intensive activity wherein sourcing shall be done from the local eco development committees.

Cost involved: Rs. 1 lakh per hectare

Consequently, any weed or tree species sapling which tries to establish shall be nipped in the bud using manual labour. The enclosure thus created shall be monitored on a daily basis by staff of the anti-poaching camp under whose jurisdiction the area falls. The intensive de weeding and woodland encroachment removal shall continue for a period of five years or when the selected area harbours only native grasses. Subsequently, an area adjoining the treated area shall be taken up for the same intervention

Cost involved: Rs. 40000 per hectare

UNIT COST INVOLVED

For a one-hectare enclosure

1. Fencing requirement	:	400 metre @ 2 lakhs/km = Rs. 80000
2. Initial labour investment	:	Rs. 100000
3. Five-year labour investment	:	Rs. 40000 per ha X 5 years= Rs. 200000
4. Total for five years	:	Rs. 380000 per hectare

NAME OF WORK : Renovation of Rhino Land Wildlife
Education Centre, Burapahar.

ESTIMATED AMOUNT: Rs. 74,33,800.00 (Rupees Seventy Four
Lakhs Thirty Three Thousand Eight
Hundred) Only.

Name of work: -Renovation of Rhino Wildlife Education Centre, Burapahar.

Estimated Cost: -Rs.74,33,800.00 (Rupees Seventy Four Lakhs Thirty Three Thousand Eight Hundred) Only.

REPORT

This Estimate an amounting to Rs.74,33,800.00 (Rupees Seventy Four Lakhs Thirty Three Thousand Eight Hundred) only has been framed to show the probable cost of the above mentioned work.

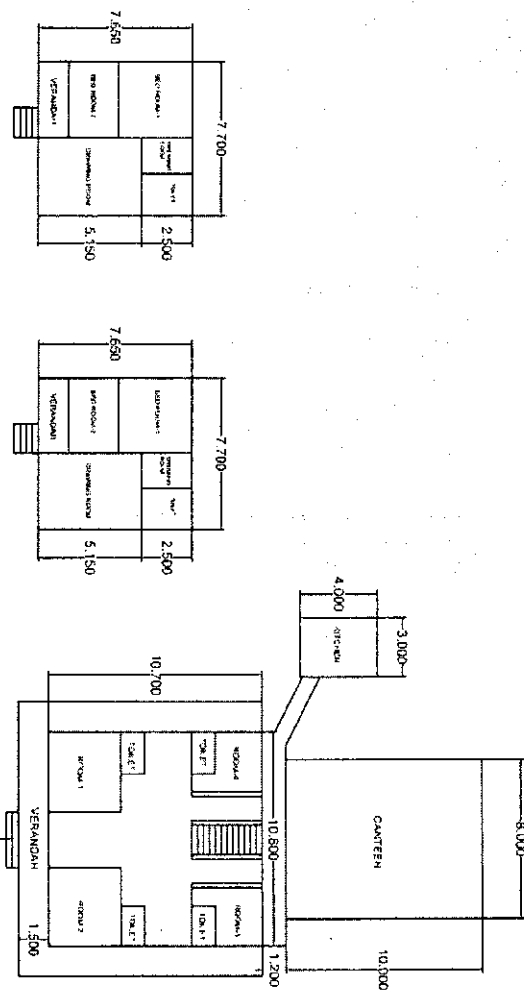
This estimate is based on the Central Public Works Department(C.P.W.D.) Delhi Schedule of Rates for the year 2021. All works will be carried out as per C.P.W.D. general specification.

Name of work: Renovation of Rhino Land Wildlife Education Centre,
Burapahar.

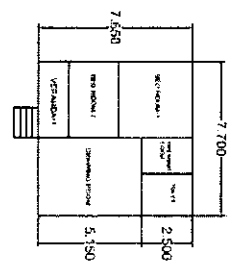
ABSTRACT OF COST

1	ROOF SLAB AREA	Rs. 10,93,790.58
2	HALL ROOM-1	Rs. 3,93,200.81
3	HALL ROOM-2	Rs. 11,33,696.48
4	CANTEEN	Rs. 1,91,101.52
5	GROUND FLOOR(GUEST ROOMS)	Rs. 4,95,147.44
6	KITCHEN ROOM	Rs. 1,99,061.90
7	VERANDAH AND OUTER AREA	Rs. 17,03,559.81
8	COTTAGE-1	Rs. 87,168.81
9	COTTAGE-2	Rs. 90,683.22
10	ELECTRICAL WORKS	Rs. 13,81,155.00
11	PLUMBING AND SANITARY WORKS	Rs. 6,65,258.00
	Total =	Rs. 74,33,823.57
	Say	Rs. 74,33,800.00
(Rupees Seventy Four lakhs Thirty Three Thousand Eight Hundred) Only		

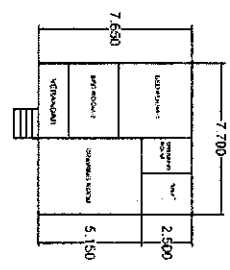
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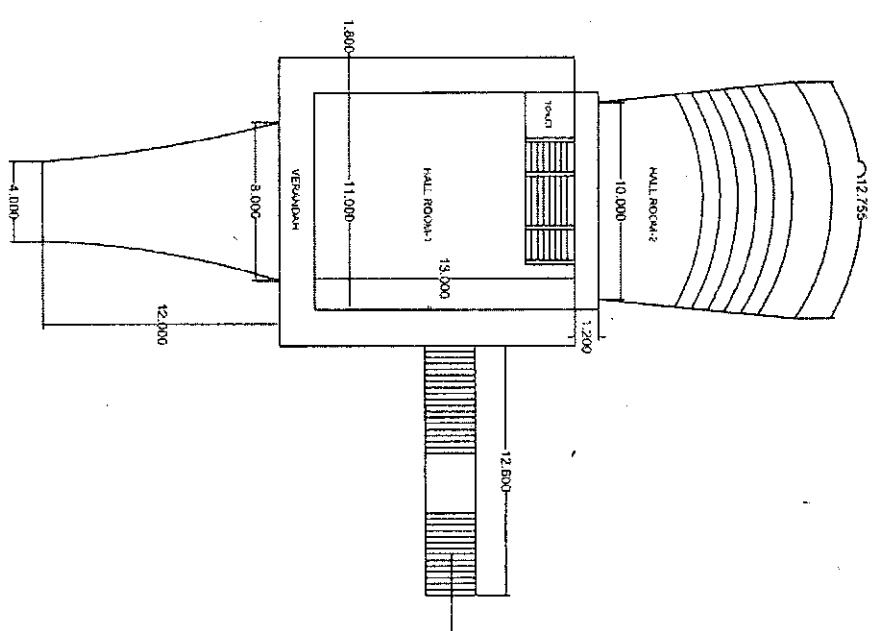
PLANE OF COTTAGE-2



PLANE OF COTTAGE-1



GROUND FLOOR PLAN



1ST FLOOR PLAN

NOTE:- 1. ALL DIMENSIONS ARE IN METER
2. PLAN NOT TO SCALE

Name of work: Renovation of Rhino Land Wildlife Education Centre, Burapahar.

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
ROOF SLAB AREA					
12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.				
		2	1	45.765	91.530
		2	1	43.988	87.975
				Total	179.505
			Sqm	1058.60	190023.99
12.66	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness, Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/ tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :				
12.66.1	Precoated/mill finish aluminium Ridges plain (500- 600mm)				
	Ridging	4	1	8.860	35.440
				Total	35.440
			Metre	969.50	34359.08
10.16	Steel work in built up tubular (round, square or rectangular hollow tubes etc.) trusses etc., including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer, including welding and bolted with special shaped washers etc. complete.				
10.16.1	Hot finished welded type tubes				
	Roof truss 48.3 OD	2	1	93.970	(2x1x93.97x4.37) 821.298
		1	1	80.400	(1x1x80.4x4.37) 351.348
		1	1	67.660	(1x1x67.66x4.37) 295.674
	Purlin 42.4 OD	1	1	232.000	(1x1x232x4.37) 1013.840
				Total	2482.160
			Kg	154.90	384486.58
5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts				
	Column above plinth	7	4	5.500	0.250
				Total	38.500
			Sqm	804.25	30963.63
5.22A	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete above plinth level.				
5.22A.1	Mild steel and Medium Tensile steel bars				
	For column	7	4	5.500	1.580
		7	38	0.900	0.396
				Total	243.320
				Total	94.802

Item No.	Description of item						Quantity	Unit	Rate(in Rs)	Amount(in Rs)
	Total						338.122	Kg	88.95	30075.9
5.2	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement :									
5.2.2	1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources ; 3 graded stone aggregate 20 mm nominal size derived from natural sources)									
	For column	7	1	5.500	0.250	0.250	2.406			
	Total						2.406	Cum	10185.05	24507.78
15.3	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.									
	For column	7	1	1.500	0.250	0.250	0.656			
	Total						0.656	Cum	2928.10	1921.57
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :									
13.2.2	1:6 (1 cement: 6 fine sand)									
	On column	7	4	5.500		0.250	38.500			
	Patch work	2	8	3.000		2.000	96.000			
		1	1	20.000		1.500	30.000			
	Total						164.500	Sqm	324.00	53298.00
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).									
9.1.3	Kiln seasoned and chemically treated hollock wood									
	Door	2	1	5.100	0.150	0.075	0.115			
	Total						0.115	Cum	74199.70	8514.42
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)									
9.5.2	Kiln seasoned and chemically treated hollock wood									
9.5.2.1	35 mm thick shutters									
	Door	2	1	2.025		0.850	3.443			
	Total						3.443	Sqm	2511.95	8647.39
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.									
11.41.2	Size of Tile 600x600 mm									
	Floor tiling	1	1	16.500		12.500	206.250			
	Total						206.250	Sqm	1416.65	292184.06
2.27	Supplying and filling in plinth with sand under floors, including watering, ramming, consolidating and dressing complete.									
	For filters	2	1	1.500	1.000	0.900	2.700			
	Total						2.700	Cum	2161.20	5835.24

Item No.	Description of item	Quantity	Unit	Rate(In Rs)	Amount(In Rs.)
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Walls	2	1	12.500	1.500
		1	1	10.500	1.500
		2	1	13.000	1.200
		1	1	12.000	1.500
				Total	102.450
			Sqm	123.85	12688.43
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Walls	2	1	12.500	1.500
		1	1	10.500	1.500
		2	1	13.000	1.200
		1	1	12.000	1.500
				Total	102.450
			Sqm	158.95	16284.43
Total(A)=					1093790.58
HALL ROOM-1					
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
11.41.2	Size of Tile 600x600 mm				
	Floor tiling	1	1	13.500	12.000
		1	1	11.000	1.900
		2	1	6.000	1.000
				Total	194.900
			Sqm	1416.65	276105.09
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.2.2	1:6 (1 cement: 6 fine sand)				
	Patch work	1	1	48.000	1.000
				Total	48.000
			Sqm	324.00	15552.00
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
9.7.7	Float glass panes				
9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).				
	Window glass	5	1	1.000	0.300
				Total	1.500
			Sqm	1897.10	2845.65
MR	Supplying, fitting and fixing of Curtain with Curtain rod as directed by the Department.				
		5	1		5.000
				Total	5.000
			Nos	2500.00	12500.00

Item No.	Description of item	Quantity	Unit	Rate(In Rs)	Amount(In Rs)
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Wall & Ceiling	4	1	12.000	3.600
		1	1	12.000	12.000
	Deduction for doors	1	2	2.100	1.500
	Deduction for windows	4	2	1.500	1.000
				Total	298.500
			Sqm	123.85	36969.23
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Wall & Ceiling	4	1	12.000	3.600
		1	1	12.000	12.000
	Deduction for doors	1	2	2.100	1.500
	Deduction for windows	4	2	1.500	1.000
				Total	298.500
			Sqm	158.95	47446.58
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture				
	Doors	1	2	2.100	1.500
	Windows	4	1	1.500	1.000
				Total	12.300
			Sqm	144.90	1782.27
Total(B)=					393200.81
HALL ROOM-2					
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
11.41.2	Size of Tile 600x600 mm				
	Floor tiling	1	1	16.000	15.000
		1	1	3.000	1.800
		1	1	17.000	2.500
				Total	287.900
			Sqm	1416.65	407853.54
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.2.2	1:6 (1 cement: 6 fine sand)				
	Patch work	1	1	26.000	2.000
				Total	52.000
			Sqm	324.00	16848.00
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :				
9.7.7	Float glass panes				
9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).				
	Window glass	3	1	1.200	0.450
				Total	1.620
			Sqm	1897.10	3073.30

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(In Rs.)
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)				
9.5.2	Kiln seasoned and chemically treated hollock wood				
9.5.2.1	35 mm thick shutters				
	Window repairing	5	1	1.800	0.100
					Total
		0.900			0.900
			Sqm	2511.95	2260.76
10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-incharge (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).				
	42.16 OD	1	1	87.000	3.380
	13.71 OD	2	1	87.000	0.630
	26.67 OD	300	1	1.000	1.680
					Total
		907.680	Kg	612.25	555727.08
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Wall & Ceiling	2	2	13.000	3.600
		2	2	11.000	3.600
		1	1	13.000	11.000
	Deduction for doors	1	2	2.100	2.800
	Deduction for windows	8	2	1.200	1.000
					Total
		457.640	Sqm	123.85	56678.71
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Wall & Ceiling	2	2	13.000	3.600
		2	2	11.000	3.600
		1	1	16.000	15.000
	Deduction for doors	1	2	2.100	2.800
	Deduction for windows	8	2	1.200	1.000
					Total
		554.640	Sqm	158.95	88160.03
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture				
	Doors	1	2	2.100	2.800
	Windows	8	1	1.200	1.000
					Total
		21.360	Sqm	144.90	3095.06
Total(C)=					1133696.48

CANTEEN

Item No.	Description of item						Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.									
11.41.2	Size of Tile 600x600 mm									
	Floor tiling	1	1	10.000	8.000	80.000				
		1	1	4.000	1.800	7.200				
					Total	87.200	Sqm	1416.65	123531.88	
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :									
13.2.2	1:6 (1 cement: 6 fine sand)									
	Patch work	1	1	3.000	2.000	6.000				
					Total	6.000	Sqm	324.00	1944.00	
9.7	Providing and fixing panelling or panelling and glazing in panelled or panelled and glazed shutters for doors, windows and clerestory windows (Area of opening for panel inserts excluding portion inside grooves or rebates to be measured). Panelling for panelled or panelled and glazed shutters 25 mm to 40 mm thick :									
9.7.7	Float glass panes									
9.7.7.1	4 mm thick glass pane (weight not less than 10kg/sqm).									
	Window glass	2	1	1.500	1.000	3.000				
	Door glass	1	1	1.000	0.500	0.500				
					Total	3.500	Sqm	1897.10	6639.85	
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)									
9.5.2	Kiln seasoned and chemically treated hollock wood									
9.5.2.1	35 mm thick shutters									
	Window rep	2	1	1.800	0.100	0.360				
					Total	0.360	Sqm	2511.95	904.30	
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.									
	Wall & Ceiling	1	2	8.000	2.000	32.000				
		1	2	3.100	1.600	9.920				
		1	2	8.000	3.300	52.800				
		1	1	10.000	10.000	100.000				
	Deduction for doors	1	2	2.100	1.800	-7.560				
					Total	187.160	Sqm	123.85	23179.77	
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :									
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm									
	Wall & Ceiling	1	2	8.000	2.000	32.000				
		1	2	3.100	1.600	9.920				
		1	2	8.000	3.300	52.800				
		1	1	10.000	10.000	100.000				

Item No.	Description of Item					Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
	Deduction for doors	1	2	2.100	1.800	-7.560			
					Total	187.160	Sqm	158.95	29749.08
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture								
	Doors	1	2	2.100	1.800	7.560			
	Window frame	1	2	140.000	0.100	28.000			
					Total	35.560	Sqm	144.90	5152.64
Total(D)=								191101.52	
GROUND FLOOR(GUEST ROOMS)									
15.23	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metres lead.								
15.23.1	For thickness of tiles 10 mm to 25 mm								
	Bathroom floor	4	1	2.500	1.900	19.000			
	Bathroom walls	4	2	2.500	2.300	46.000			
		4	2	1.900	2.300	34.960			
	Deduction for doors	4	1	2.100	1.200	-10.080			
					Total	89.880	Sqm	60.50	5437.74
11.37	Providing and laying Ceramic glazed floor tiles of size 300x300 mm (thickness to be specified by the manufacturer) of 1st quality conforming to IS : 15622 of approved make in colours such as White, Ivory, Grey, Fume Red Brown, laid on 20 mm thick cement mortar 1:4 (1 Cement : 4 Coarse sand), Jointing with grey cement slurry @ 3.3 kg/sqm including pointing the joints with white cement and matching pigment etc., complete.								
	Bathroom floor	4	1	2.500	1.900	19.000			
					Total	19.000	Sqm	935.60	17776.40
8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.								
	Bathroom walls	4	2	2.500	2.300	46.000			
		4	2	1.900	2.300	34.960			
	Deduction for doors	4	1	2.100	1.200	-10.080			
					Total	70.880	Sqm	1063.45	75377.34
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.								
11.41.2	Size of Tile 600x600 mm								
	Staircase portion	2	1	3.000	1.500	9.000			
					Total	9.000	Sqm	1416.65	12749.85
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :								
13.2.2	1:6 (1 cement: 6 fine sand)								
	Patch work	4	1	3.000	2.000	24.000			

Item No.	Description of item						Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
	Total						24.000	Sqm	324.00	7776.00
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).									
9.1.3	Kiln seasoned and chemically treated hollock wood									
	Door	6	1	5.100	0.150	0.075	0.344			
	Window	2	1	4.200	0.150	0.075	0.095			
	Total						0.439	Cum	74199.70	32555.12
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)									
9.5.2	Kiln seasoned and chemically treated hollock wood									
9.5.2.1	35 mm thick shutters									
	Door	4	1	2.025		0.850	6.885			
	Window	2	1	1.200		1.000	2.400			
	Window repairing	4	1	3.000		0.100	1.200			
	Total						10.485	Sqm	2511.95	26337.80
MR	Supplying, fitting and fixing of Curtain with Curtain rod as directed by the Department.									
		4	3				12.000			
	Total						12.000	Nos	2500.00	30000.00
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.									
	Wall & Ceiling	6	2	10.700		3.600	462.240			
		6	2	10.800		3.600	466.560			
		1	1	10.700		10.800	115.560			
	Deduction for doors	8	2	2.100		1.200	-40.320			
	Deduction for windows	8	2	1.200		1.000	-19.200			
	Total						984.840	Sqm	123.85	121972.43
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :									
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm									
	Wall & Ceiling	6	2	10.700		3.600	462.240			
		6	2	10.800		3.600	466.560			
		1	1	10.700		10.800	115.560			
	Deduction for doors	8	2	2.100		1.200	-40.320			
	Deduction for windows	8	2	1.200		1.000	-19.200			
	Total						984.840	Sqm	158.95	156540.32
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture									
	Doors	8	2	2.100		1.200	40.320			
	Windows	8	2	1.200		1.000	19.200			
	Total						59.520	Sqm	144.90	8624.45
Total(E)=									495147.44	

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
KITCHEN ROOM					
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
15.28.1	G.S. Sheet				
		2	1	5.200	2.460
				Total	25.584
					25.584
			Sqm	144.90	3707.12
9.3	Providing wood work in frames of false ceiling, partitions etc. sawn and fixed in position with necessary stainless steel screws etc.				
9.3.2	Kiln seasoned and chemically treated hollock wood				
	Purlin batten	5	1	5.000	0.075
	Ceiling batten	5	1	3.500	0.075
		4	1	4.200	0.075
				Total	0.269
			Cum	64332.20	17321.44
12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).				
12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.				
		2	1	5.200	2.460
				Total	25.584
					25.584
			Sqm	1058.60	27083.22
12.66	Providing and fixing of Pre-coated colour or mill finish Aluminium Roofing Accessories in 0.71 mm thickness ,Alloy 31500 (IS designation) [Aluminium Alloy (AA) 3004 (ISO designation)] For color, coating shall be 5-7 microns epoxy primer on both sides of the sheet and polyester top coat 15-18 microns, using self drilling/ tapping SS screws of size 6 x 50mm with 3mm thick EPDM seal and SS plain washer complete :				
12.66.1	Precoated/mill finish aluminium Ridges plain (500- 600mm)				
	Ridging	1	1	5.200	5.200
				Total	5.200
					5.200
			Metre	969.50	5041.40
12.26	Providing and fixing plain multipurpose cement board(Hight pressure steam cured) with suitable screws for cement particle board in ceiling etc. complete (frame work to be paid seperately).				
12.26.1	6 mm thick Cement fiber board as per IS: 14862				
	Ceiling	1	1	4.200	3.500
				Total	14.700
					14.700
			Sqm	773.40	11368.98
15.56	Dismantling old plaster or skirting raking out joints and cleaning the surface for plaster including disposal of rubbish to the dumping ground within 50 metres lead.				
		2	1	4.200	3.600
		2	2	3.500	3.600
	Deduction for doors	1	1	2.100	1.200
	Deduction for windows	3	1	1.200	1.000
				Total	74.520
					74.520
			Sqm	45.05	3357.13

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
13.2	15 mm cement plaster on the rough side of single or half brick wall of mix :				
13.2.2	1:6 (1 cement: 6 fine sand)				
		2	1	4.200	3.600
		2	2	3.500	3.600
	Deduction for doors	1	1	2.100	1.200
	Deduction for windows	3	1	1.200	1.000
				Total	74.520
			Sqm	324.00	24144.48
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:				
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)				
		4	1	1.500	0.230
				0.450	2.700
				Total	2.700
			Cum	6882.00	18581.40
5.1	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level :				
5.1.2	1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)				
		1	1	6.000	0.450
				0.120	0.324
				Total	0.324
			Cum	8364.20	2710.00
5.9	Centering and shuttering including strutting, propping etc. and removal of form for				
5.9.3	Suspended floors, roofs, landings, balconies and access platform				
		1	1	6.000	0.450
				Total	2.700
			Sqm	766.55	2069.69
5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level.				
5.22.1	Mild steel and Medium Tensile steel bars				
		6	1	6.000	0.620
		31	1	0.450	0.396
				Total	27.844
			Kg	157.15	4375.72
11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joints with white cement and matching pigments etc., complete.				
11.41.2	Size of Tile 600x600 mm				
	Floor tiling	1	1	4.200	3.500
				Total	14.700
			Sqm	1416.65	20824.76
8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.				
	Kitchen walls	1	1	6.000	0.900
		1	1	6.300	0.600
				Total	3.780

Item No.	Description of item	Quantity	Unit	Rate(In Rs)	Amount(in Rs.)
	4 1 1.500 0.230	1.380			
	Total	10.560	Sqm	1063.45	11230.03
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
9.1.3	Kiln seasoned and chemically treated hollock wood				
	Window 2 1 4.200 0.100 0.075	0.063			
	Total	0.063	Cum	74199.70	4674.58
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)				
9.5.2	Kiln seasoned and chemically treated hollock wood				
9.5.2.1	35 mm thick shutters				
	Window 2 1 1.200 0.850	2.040			
	Total	2.040	Sqm	2511.95	5124.38
13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :				
13.7.1	1:3 (1 cement: 3 fine sand)				
	Passage 1 1 5.000 1.500	7.500			
	Total	7.500	Sqm	374.15	2806.13
10.29	Providing & fixing fly proof wire gauze to windows, clerestory windows & doors with M.S. Flat 15x3 mm and nuts & bolts complete.				
10.29.1	Galvanised M.S. Wire gauze with 0.63 mm dia wire and 1.4 mm aperture on both sides				
	For window 3 1 1.200 1.000	3.600			
	Total	3.600	Sqm	732.20	2635.92
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.				
	Walls 2 2 4.200 3.600	60.480			
	2 2 3.500 3.600	50.400			
	Deduction for doors 1 2 2.100 1.200	-5.040			
	Deduction for windows 3 2 1.200 1.000	-7.200			
	Total	98.640	Sqm	123.85	12216.56
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :				
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Walls 2 2 4.200 3.600	60.480			
	2 2 3.500 3.600	50.400			
	Ceiling 1 1 4.200 3.500	14.700			
	Deduction for doors 1 2 2.100 1.200	-5.040			
	Deduction for windows 3 2 1.200 1.000	-7.200			
	Total	113.340	Sqm	158.95	18015.39
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture				
	Doors 1 2 2.100 1.200	5.040			

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)					
	Windows	3	2	1.200	1.000	7.200				
					Total	12.240	Sqm	144.90	1773.58	
Total(F)=									199061.90	
VERANDAH AND OUTER AREA										
15.28	Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:									
15.28.1	G.S. Sheet									
		1	1	10.000	6.000	60.000				
					Total	60.000	Sqm	144.90	8694.00	
12.65	Providing & fixing at all heights, levels and locations colour finish Aluminium alloy roofing sheets of alloy IS designation 31500, temper. Hx8 conforming to IS 737 and dimensions as per IS code 2676 with characteristics of good formability and corrosion resistance. The profile sheets shall be fixed to truss members in slope or required pitch or curvature with Hex cap headed self drilling/tapping Stainless steel screws M6, 50 mm long with 3 mm EPDM seal washer etc. all inclusive of labour, scaffolding, T&P and sundries etc. complete as per directions of the Engineer-In-Charge. (Cost of truss/frame work shall be paid separately).									
12.65.1	0.56 mm, Aluminium Color coated troughed profile with center to center pitch of 200 mm, depth of 32 mm, overall profile width 1092 mm, cover width 1000mm.									
		1	1	10.000	6.000	60.000				
					Total	60.000	Sqm	1058.60	63516.00	
2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.									
2.6.1	All kinds of soil									
		1	1	41.000	0.230	0.200	1.886			
					Total	1.886	Cum	205.45	387.48	
6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:									
6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)									
	Landscaping	1	1	41.000	0.230	0.500	20.500			
	Guard wall for paver	2	1	7.500	0.230	0.300	4.500			
	Patch work	1	1	1.000	0.230	0.500	0.500			
					Total	25.500	Cum	6882.00	175491.00	
13.7	12 mm cement plaster finished with a floating coat of neat cement of mix :									
13.7.1	1:3 (1 cement: 3 fine sand)									
	Landscaping	1	1	41.000		0.500	20.500			
	Guard wall	2	1	80.000		1.000	160.000			
	Patch work	1	1	20.000		1.000	20.000			
					Total	200.500	Sqm	374.15	75017.08	
26.72	Providing and laying 60mm thick factory made cement concrete paver block of approved shape and colour of M -30 grade made of C&D waste by block making machine with vibratory compaction laid in required pattern and including over 50mm thick compacted bed of coarse sand, filling the joints with fine sand etc. all complete as per the direction of Engineer-in-charge.									
		1	1	14.500	7.500	108.750				
					Total	108.750	Sqm	757.00	82323.75	

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)					
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).									
9.1.3	Kiln seasoned and chemically treated hollock wood									
	Door	1	1	5.100	0.150	0.075	0.057			
						Total	0.057	Cum	74199.70	4257.21
9.5	Providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows, fixing with butt hinges of required size with necessary screws, excluding panelling which will be paid for separately, all complete as per direction of Engineer-in-charge. (Note:- Butt hinges and necessary screws shall be paid separately)									
9.5.2	Kiln seasoned and chemically treated hollock wood									
9.5.2.1	35 mm thick shutters									
	Door	1	1	2.100		1.000	2.100			
						Total	2.100	Sqm	2511.95	5275.10
13.8	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.									
	Walls	2	2	16.000		0.500	32.000			
		6	4	2.800		0.500	33.600			
						Total	65.600	Sqm	123.85	8124.56
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :									
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm									
	Walls	2	2	16.000		0.500	32.000			
		6	4	2.800		0.500	33.600			
						Total	65.600	Sqm	158.95	10427.12
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture									
	Doors	1	2	2.100		1.200	5.040			
						Total	5.040	Sqm	144.90	730.30
2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge.									
2.6.1	All kinds of soil									
	For boundary pillar	105	1	0.600	0.230	0.230	3.333			
						Total	3.333	Cum	205.45	684.70
4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :									
4.1.3	1:2:4 (1 cement : 2 coarse sand (zone-III) derived from natural sources : 4 graded stone aggregate 20 mm nominal size derived from natural sources)									
	For boundary pillar	105	1	0.800	0.230	0.230	4.444			
						Total	4.444	Cum	74199.70	329713.79

Item No.	Description of Item						Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
11.35	Providing and fixing M.S. angle 50x50x5 mm to act as nosing with lugs of M.S. flat 10x5 mm, 10 cm long, forked at end 60cm apart (minimum three lugs to be provided), including necessary welding and applying a priming coat of approved primer on exposed surface etc. complete									
	For boundary pillar	105	1	3.600		3.800	1436.400			
						Total	1436.400	Kg	142.85	205189.74
9.110	Providing and fixing Bamboo jaffery/ fencing consisting of superior quality 25mm dia (Average) half cut bamboo placed vertically and fixed together with three numbers horizontal running members of hollock wood in scantling of section 50X25 mm, fixed with nails and G.I wire on existing support complete as per direction of Engineer-in-charge.									
	Boundary	1	1	320.000		3.000	960.000			
						Total	960.000	Sqm	600.15	576144.00
13.69	Polishing on wood work with ready mixed wax polish of approved brand and manufacture :									
13.69.1	New work									
	On bamboo wall	1	1	320.000		3.000	960.000			
						Total	960.000	Sqm	164.15	157584.00
Total(G)=									1703559.81	
COTTAGE-1										
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :									
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm									
	Wall & Ceiling	3	2	7.650		3.600	165.240			
		4	1	7.700		3.600	110.880			
		1	1	7.700		7.650	58.905			
	Deduction for doors	6	2	2.200		1.800	-47.520			
	Deduction for windows	6	2	2.100		1.200	-30.240			
						Total	257.265	Sqm	158.95	40892.27
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture									
	Doors	6	2	2.200		1.800	47.520			
	Windows	6	1	2.100		1.200	15.120			
						Total	62.640	Sqm	144.90	9076.54
MR	Supplying, fitting and fixing of Curtain as directed by the Department.									
		12	1				12.000			
						Total	12.000	Nos	600.00	7200.00
MR	Supplying of Centre table as directed by the Department.									
		1	1				1.000			
						Total	1.000	Nos	5000.00	5000.00
MR	Supplying of Dinning table with 4 nos. chairs as directed by the Department.									
		1	1				1.000			
						Total	1.000	Nos	25000.00	25000.00
Total(G)=									87168.81	
COTTAGE-2										
13.48	Finishing with Deluxe Multi surface paint system for interiors and exteriors using Primer as per manufacturers specifications :									

Item No.	Description of item	Quantity	Unit	Rate(in Rs)	Amount(in Rs.)
13.48.1	Two or more coats applied on walls @ 1.25 ltr/10 sqm over and including one coat of Special primer applied @ 0.75 ltr /10 sqm				
	Wall & Ceiling	3	2	7.650	3.600
		4	1	7.700	3.600
		1	1	7.700	7.650
	Deduction for doors	6	2	2.200	1.800
	Deduction for windows	6	2	2.100	1.200
				Total	257.265
			Sqm	158.95	40892.27
13.48.2	Painting wood work with Deluxe Multi Surface Paint of required shade. Two or more coat applied @ 0.90 ltr/10 sqm over an under coat of primer applied @0.75 ltr/10 sqm of approved brand and manufacture				
	Doors	6	2	2.200	1.800
	Windows	6	1	2.100	1.200
				Total	62.640
			Sqm	144.90	9076.54
9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately).				
9.1.3	Kiln seasoned and chemically treated hollock wood				
	Door	2	1	5.100	0.150
				0.075	0.115
				Total	0.115
			Cum	74199.70	8514.42
MR	Supplying, fitting and fixing of Curtain as directed by the Department.				
		12	1		
					12.000
				Total	12.000
			Nos	600.00	7200.00
MR	Supplying of Dinning table with 4 nos. chairs as directed by the Department.				
		1	1		
					1.000
				Total	1.000
			Nos	25000.00	25000.00
Total(G)=					90683.22

