

PROGRESS REPORT

From (01/01/2023 to 31/03/2023)

SETTING UP AUTOMATIC WHEATHER STATIONS IN PROTECTED AREAS OF GOA

1. Name of State /District/city:-

GOA

NORTH GOA

(a) Maloli, Sattari

SOUTH GOA

(a) Bondla Usgaon

(b) Mollem Dharbandora

(c) Netravali, Sanguem

(d) Cotigao, Cancona

2. Name of AWS-Installation LOCATION

- RFO-Maloli Sattari
- RFO,Bondla Usgao
- RFO, Mollem Dharbandora
- RFO, Netravli Sanguem
- RFO,Cotigao, Cancona

3. Location details : All site where AWS are installed are notified Wildlife Sanctuaries under WLPAs-1972.

4. Installation Details: All 5 designated sites were supplied with all the sensors/equipment's for installation/ components of AWS viz temperature, humidity, wind, Rain Gauge, Atmosphere pressure, soil temperature, Solar Panels with mounting accessories water loggers, work station 10mtr. Mast for mounting, fencing accessories etc.

5. Cost of Project:- 65Lakhs

(a) Total Approved Cost of Project :- Rs.65Lakhs

(b) 1st Installment (70%) received:- Rs. 45.50Lakhs

(c) Amount utilized till 31st March 2023:- Rs. 45.50Lakhs

6. Progress With details:-

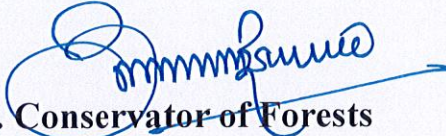
During the period of January'2023 to March 2023, codal formalities for selecting agency for the work of procurement, installation and commissioning of 5Nos of AWS at various protected area was undertaken through e-tendering.

M/s. Azista Industries Ahemdabad , was awarded the work for installation of AWS vide order no 1-761/WL&ET(N)/2022-23/4637 dated: 13/03/2023 for total estimated amount of Rs.63,42,427/- plus GST.

The agency has supplied all the requisite equipment, sensor, hardware, accessories etc. for the installation of 5nos AWS and submitted a bill of Rs.45.50Lakhs in March 2023. The total payment of Rs. 45.50Lakhs was

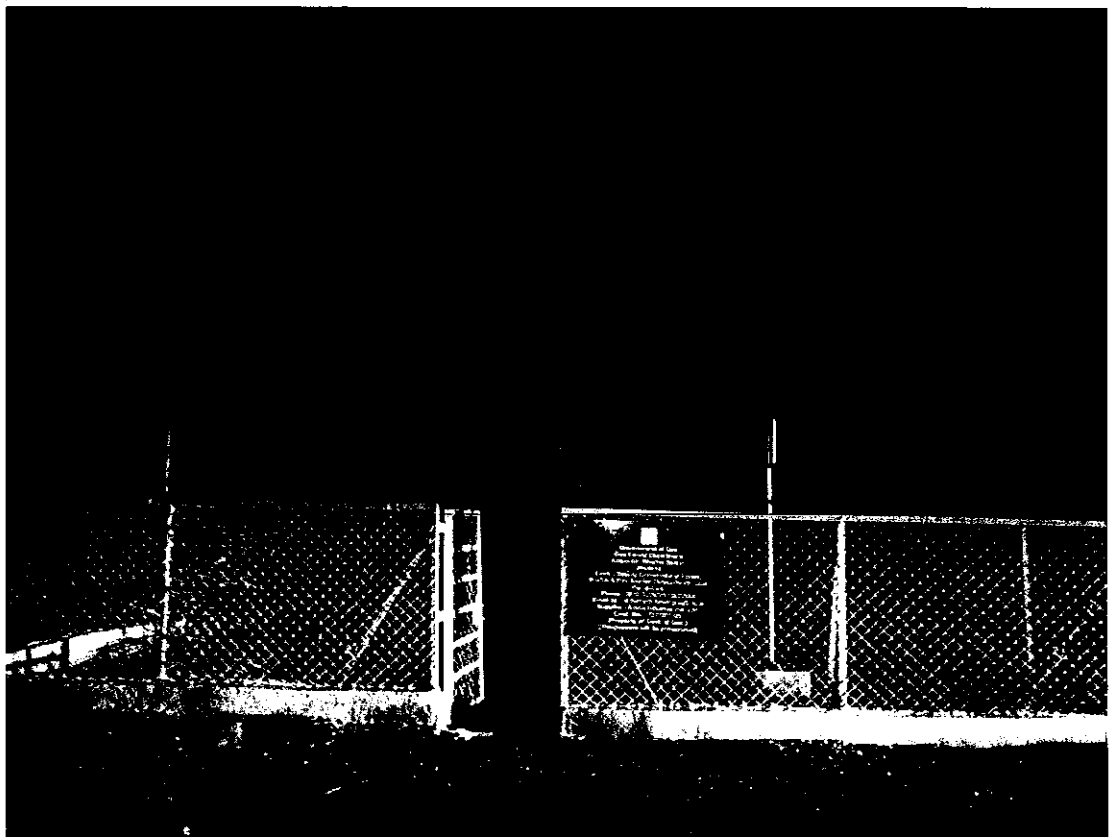
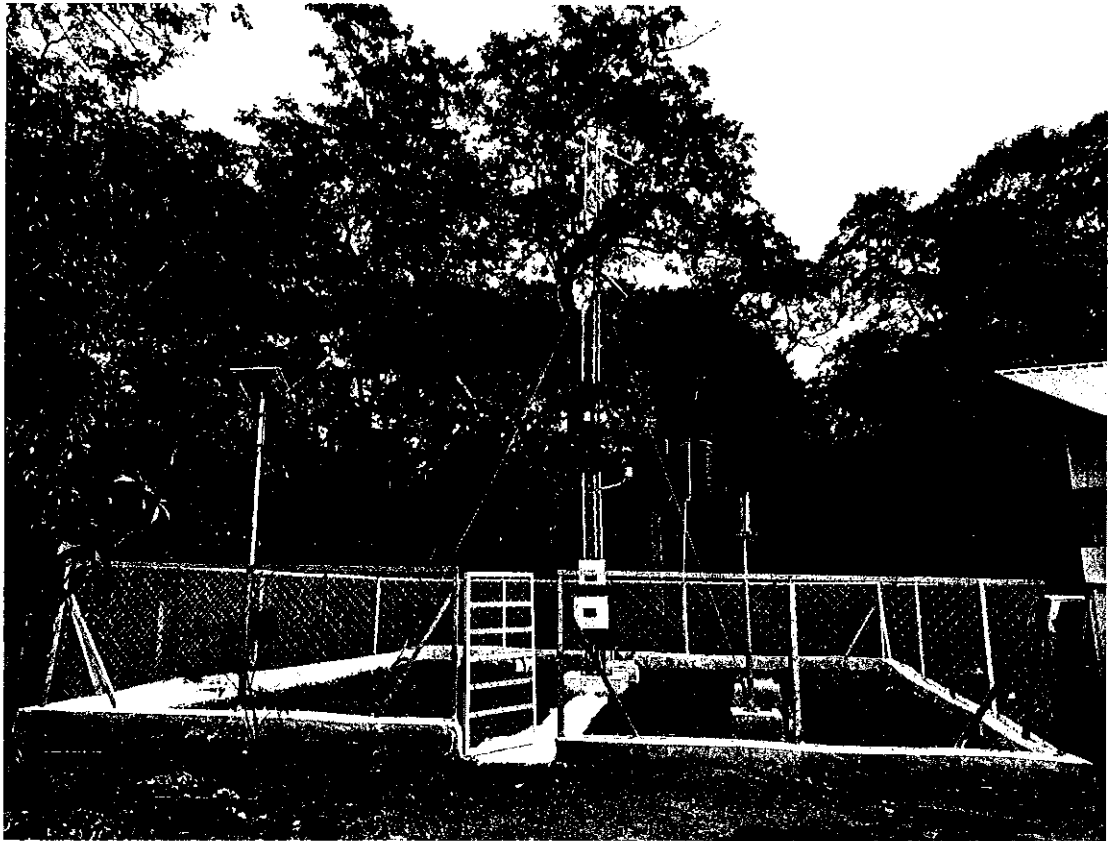
undertaken towards theist running bill raised for equipment was done in March 2023.

Requisite UC is submitted copy enclosed. Remaining work of installation of 5 AWS with fencing and commissioning of AWS will be undertaken in next financial year i.e 2023-24(May 2023 onwards)



**Dy. Conservator of Forests
Wildlife & Eco-tourism (N)**

Site 1: Bhagwan Mahavir Wildlife Sanctuary, Mollem



Mollem Data Reception on Web Portal

Type Station ID or Station Name and click on search

Mollem GFD00002 Active

Fri Jul 07 2023 17:18:05 GMT+0530 (India Standard Time)

Latest Observation

Image

Map

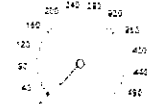
Battery Voltage 12.3 V



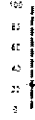
Air Temperature: 24.2 °C



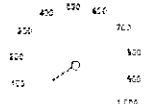
Hourly Rainfall 000.5 mm



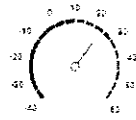
Humidity: 95.1 %



Daily Rain 0030.8 mm



Wind Direction 104 24.2 C



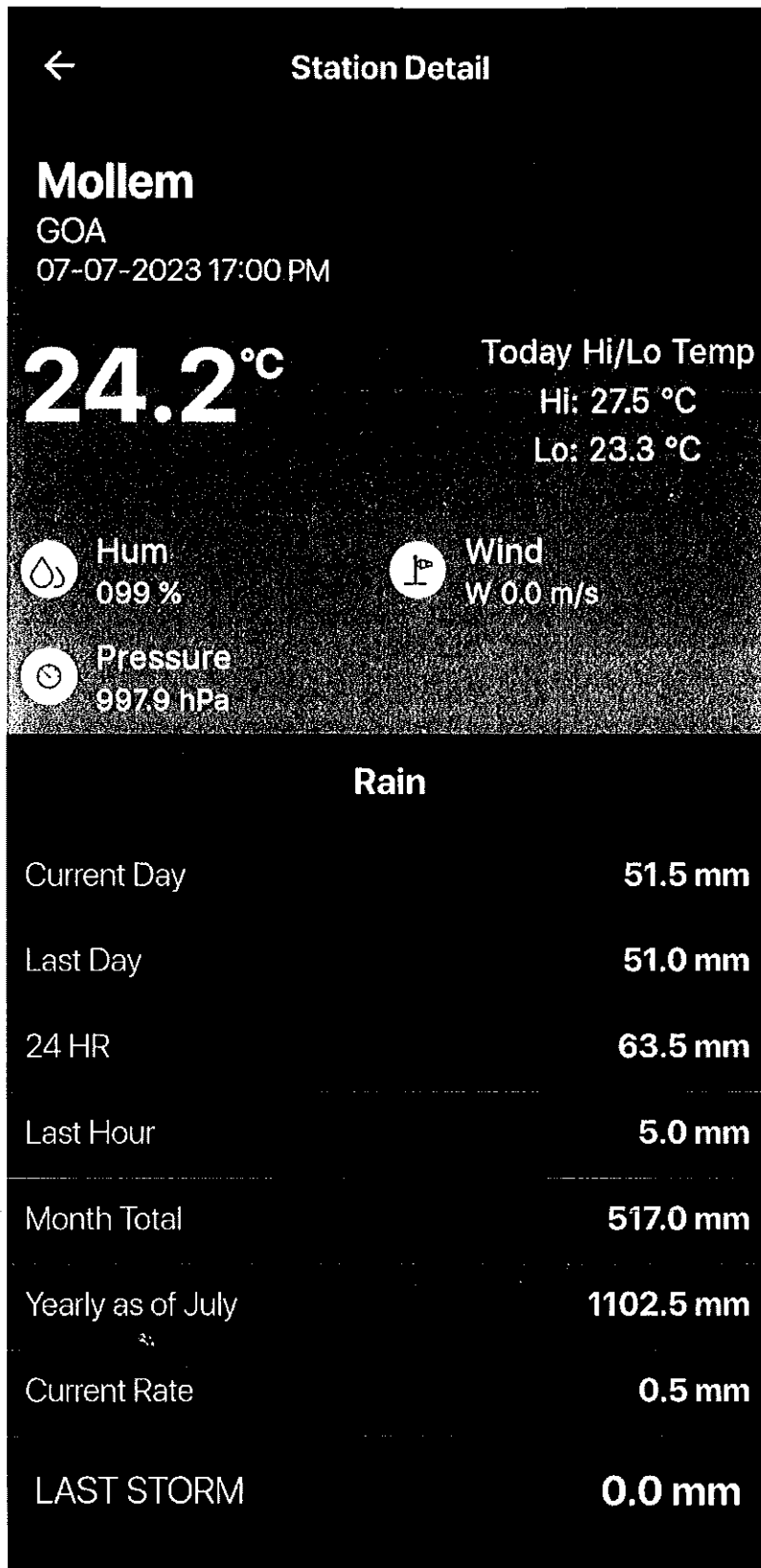
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Search

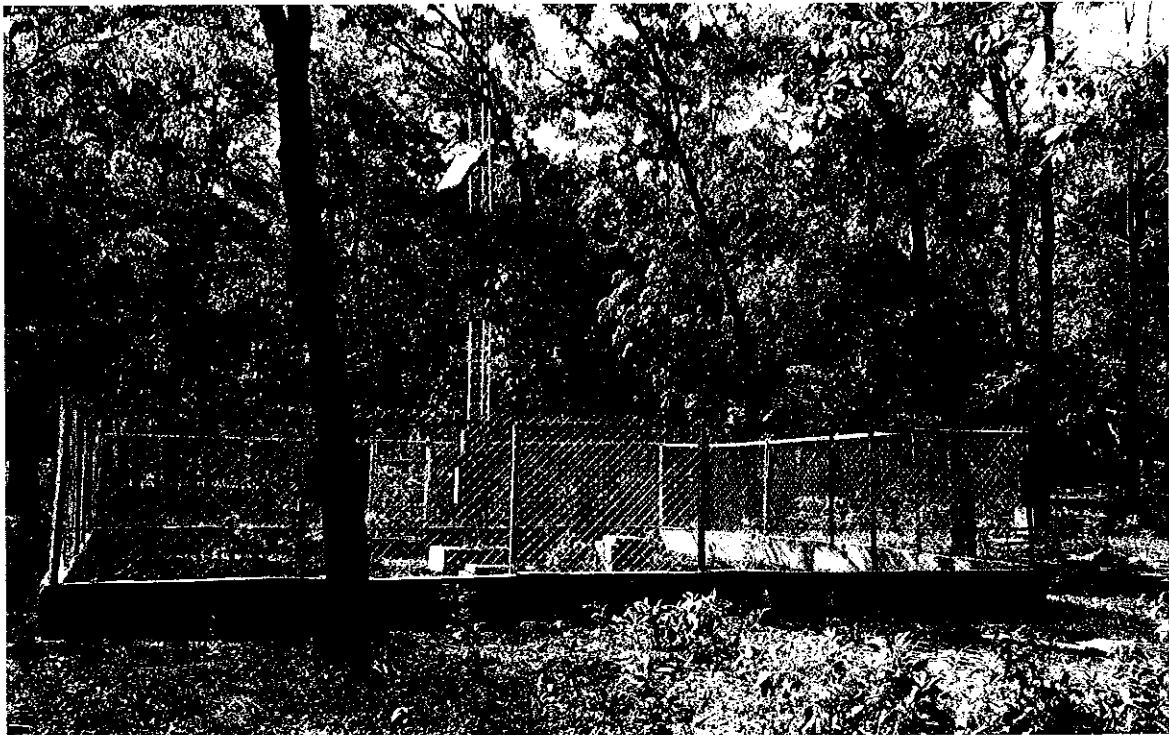
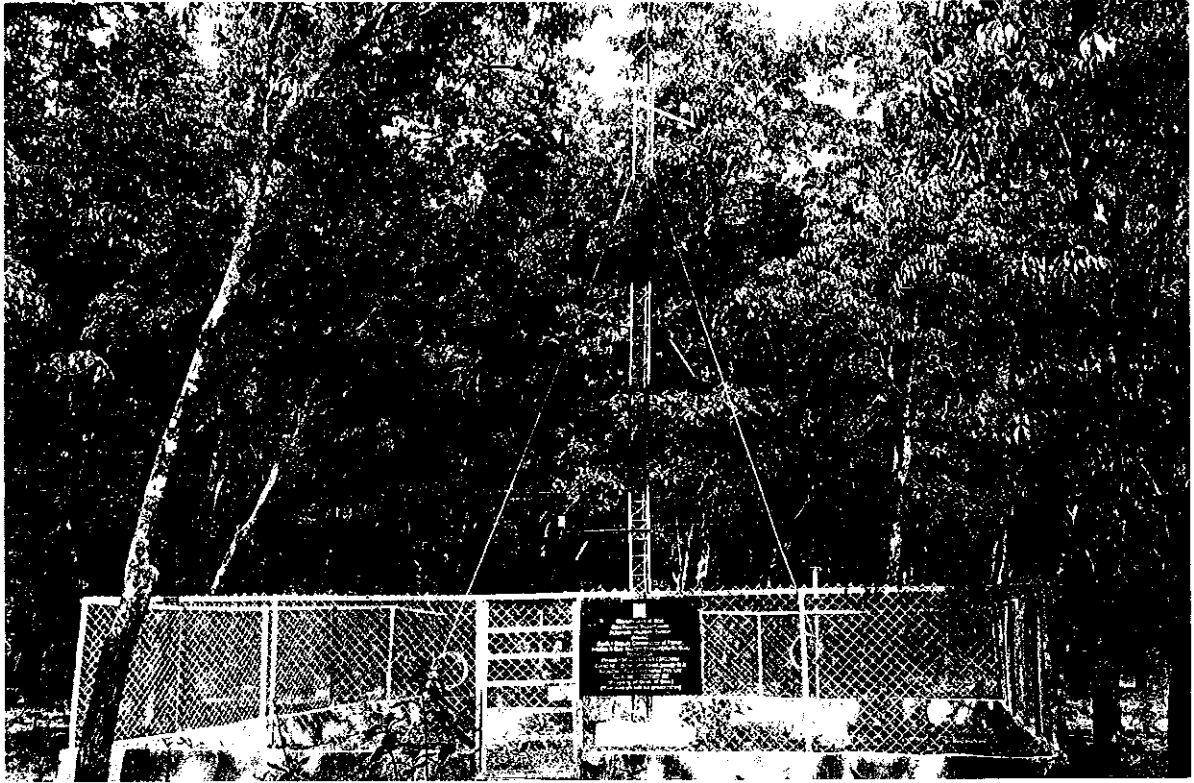
ID	Date (MM/DD/YYYY)	Time	Battery Voltage V	Hourly Rainfall mm	Daily Rain mm	Air Temperature C	Temperature Minimum C	Temperature Maximum C	Temperature Day Min/Max C	Humidity %	Humidity Minimum %
1	Jul 07, 2023	17:00	12.7	000.5	0000.0	+24.2	+24.1	+24.2	--	060	058
2	Jul 07, 2023	16:45	12.7	001.0	0050.0	+24.2	+24.0	+24.3	--	060	058
3	Jul 07, 2023	16:30	12.7	000.5	0040.0	+24.3	+24.0	+24.4	--	060	058
4	Jul 07, 2023	16:15	12.7	001.0	0040.0	+24.3	+24.3	+24.4	--	065	057
5	Jul 07, 2023	16:00	12.7	002.0	0041.0	+24.4	+24.4	+24.0	--	068	057
6	Jul 07, 2023	15:45	12.7	000.0	0049.0	+25.0	+25.0	+25.1	--	090	058
7	Jul 07, 2023	15:30	12.8	001.5	0045.0	+24.0	+24.0	+25.1	--	092	058
8	Jul 07, 2023	15:15	12.9	000.5	0044.0	+25.1	+25.1	+25.3	--	060	058
9	Jul 07, 2023	15:00	12.8	000.5	0043.0	+25.3	+25.2	+25.4	--	090	058
10	Jul 07, 2023	14:45	12.8	000.5	0043.0	+25.2	+25.2	+25.4	--	060	058
11	Jul 07, 2023	14:30	13.0	000.5	0042.0	+25.4	+25.4	+25.0	--	059	058
12	Jul 07, 2023	14:15	13.0	000.0	0042.0	+25.4	+25.2	+25.5	--	060	050
13	Jul 07, 2023	14:00	12.9	000.5	0042.0	+25.2	+24.9	+25.3	--	060	050
14	Jul 07, 2023	13:45	12.7	000.5	0041.0	+24.9	+24.7	+25.0	--	060	050
15	Jul 07, 2023	13:30	12.7	001.0	0041.0	+24.0	+24.0	+24.7	--	068	058
16	Jul 07, 2023	13:15	12.8	004.0	0040.0	+24.7	+24.6	+24.7	--	060	058
17	Jul 07, 2023	13:00	12.7	010.0	0033.0	+24.8	+24.8	+25.3	--	068	058
18	Jul 07, 2023	12:45	12.7	000.5	0023.0	+25.4	+25.2	+25.4	--	068	058

PA

Mollem Data Reception on Mobile App



Site 2: Madei Wildlife Sanctuary, Madei



Madei Data Reception on web portal

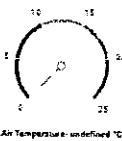
Type StationID or StationName and click on search

Madei GFD00003 Active

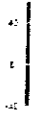
Fri Jul 07 2023 17:20:48 GMT+0530 (India Standard Time)

Latest Observation

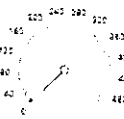
BatteryVoltage undefined V



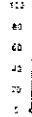
Air Temperature: undefined °C



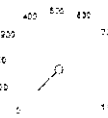
HourlyRainfall undefined mm



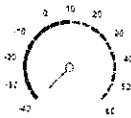
Humidity: undefined %



DailyRain undefined mm



WindDirection10m undefined °C



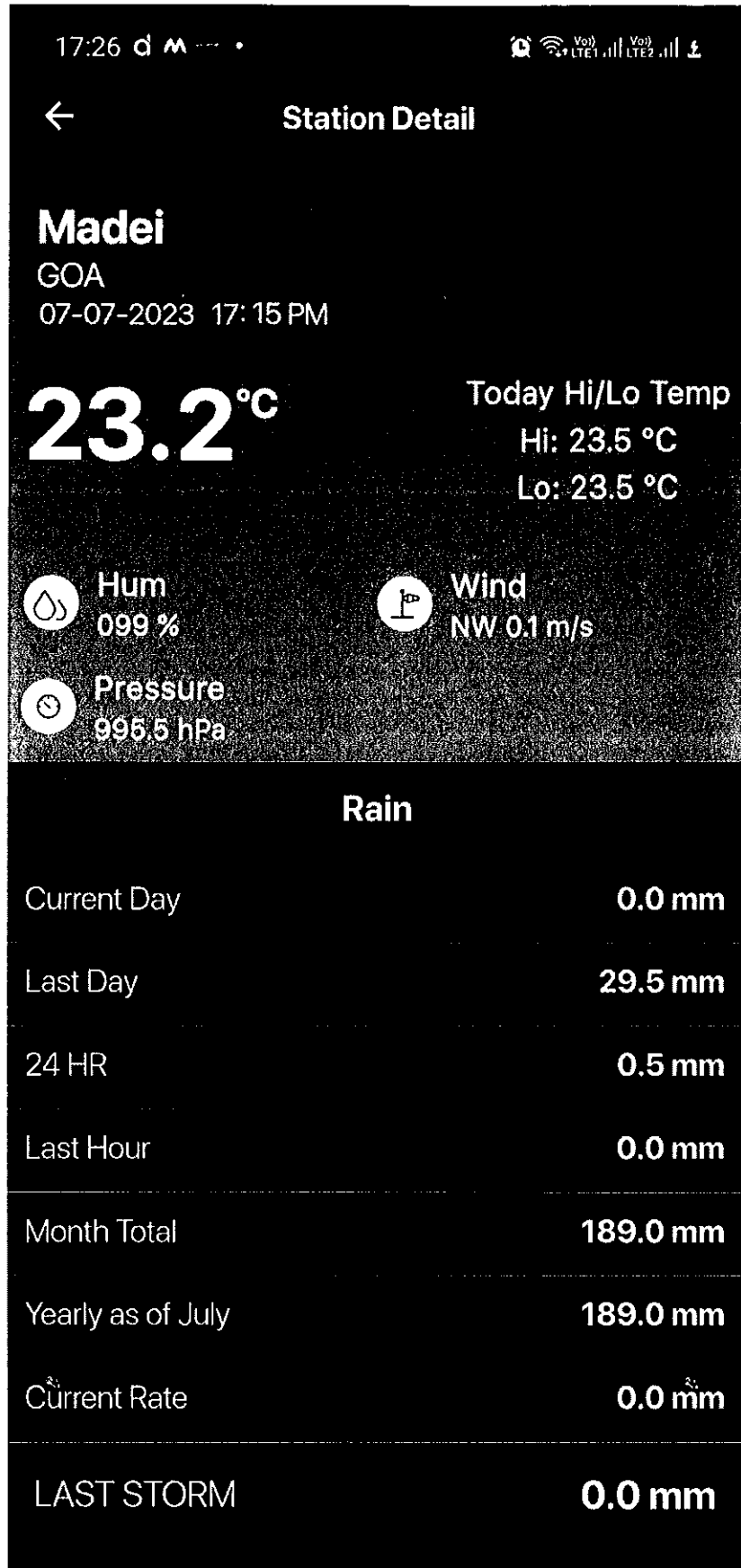
Image

Map

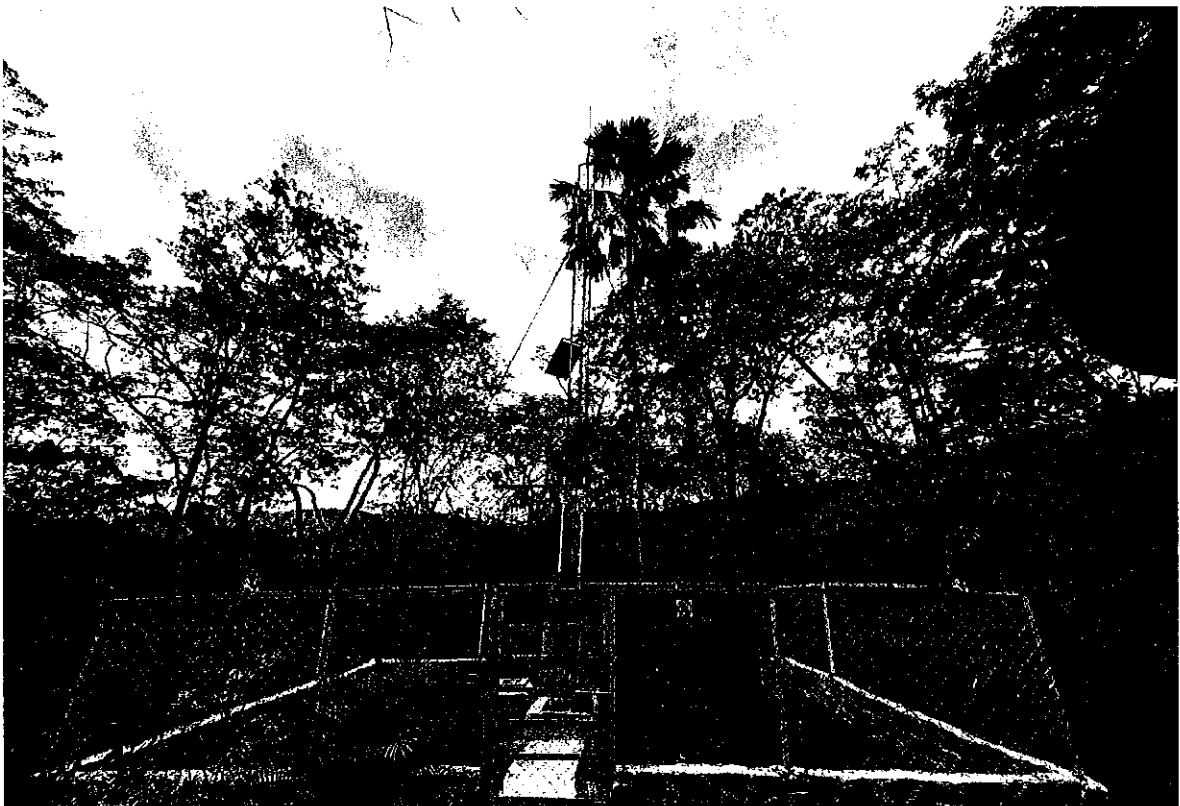


Date (MMM dd, yyyy)	Battery Voltage V			Hourly Rainfall mm			Air Temperature C			Temperature Minimum C			Temperature f
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min
Jun 11, 2023	17:15	13.7	000.0	0003.0	+27.2	+26.8	+27.2	--	091	090	093	--	108
Jun 11, 2023	17:00	13.6	003.0	0003.0	+26.8	+26.9	+27.3	--	092	087	093	--	060
Jun 12, 2023	23:45	12.3	000.0	0002.0	+25.4	+25.4	+25.4	--	096	096	096	--	000
Jun 12, 2023	23:30	12.3	000.0	0002.0	+25.4	+25.3	+25.4	--	096	096	096	--	000
Jun 12, 2023	23:15	12.4	000.0	0002.0	+25.4	+25.4	+25.6	--	096	096	096	--	000
Jun 12, 2023	23:00	12.3	000.0	0002.0	+25.5	+25.4	+25.5	--	096	096	096	--	270
Jun 12, 2023	22:45	12.3	000.5	0002.0	+25.4	+25.3	+25.4	--	096	096	096	--	060
Jun 12, 2023	22:30	12.3	000.0	0001.0	+25.3	+25.3	+25.4	--	096	098	096	--	270
Jun 12, 2023	22:15	12.4	000.0	0001.0	+25.4	+25.4	+25.5	--	096	095	096	--	180
Jun 12, 2023	22:00	12.3	000.0	0001.0	+25.5	+25.5	+25.5	--	096	096	096	--	270
Jun 12, 2023	21:45	12.3	000.0	0001.0	+25.6	+25.6	+25.6	--	098	096	096	--	270
Jun 12, 2023	21:30	12.3	000.0	0001.0	+25.6	+25.6	+25.6	--	096	096	096	--	217
Jun 12, 2023	21:15	12.4	000.0	0001.0	+25.8	+25.8	+25.7	--	096	096	096	--	270
Jun 12, 2023	21:00	12.3	000.0	0001.0	+25.7	+25.6	+25.7	--	096	095	098	--	000

Madei Data Reception on Mobile App



Site 3: Bondla Wildlife Sanctuary, Bondla



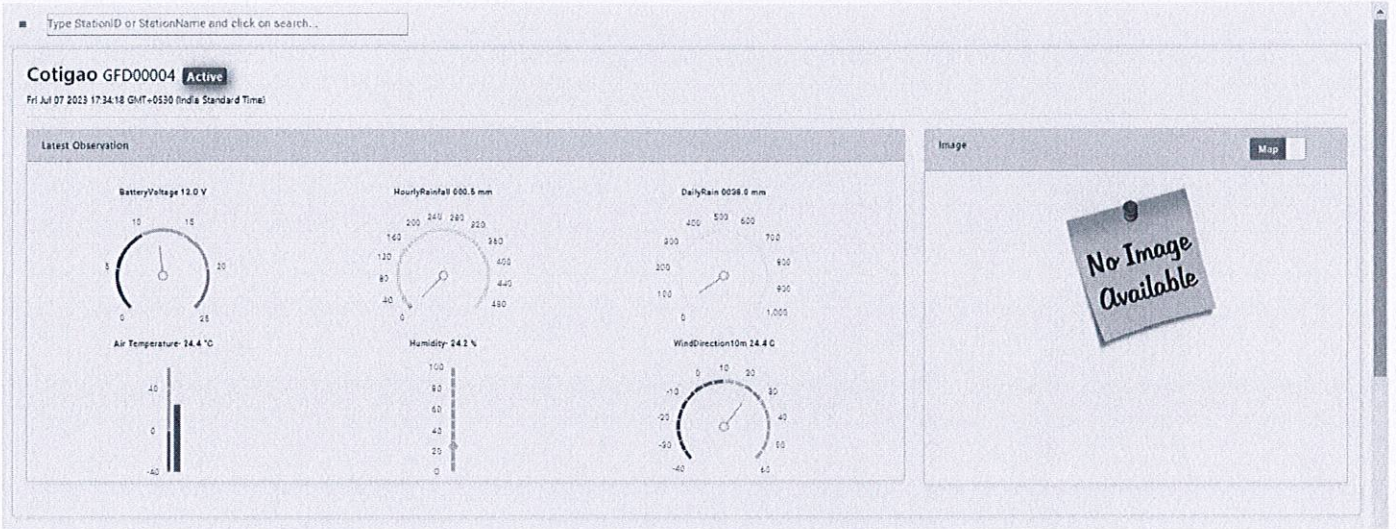
Bondla Data Reception on Mobile App



Site 4: Cotigao Wildlife Sanctuary, Cotigao



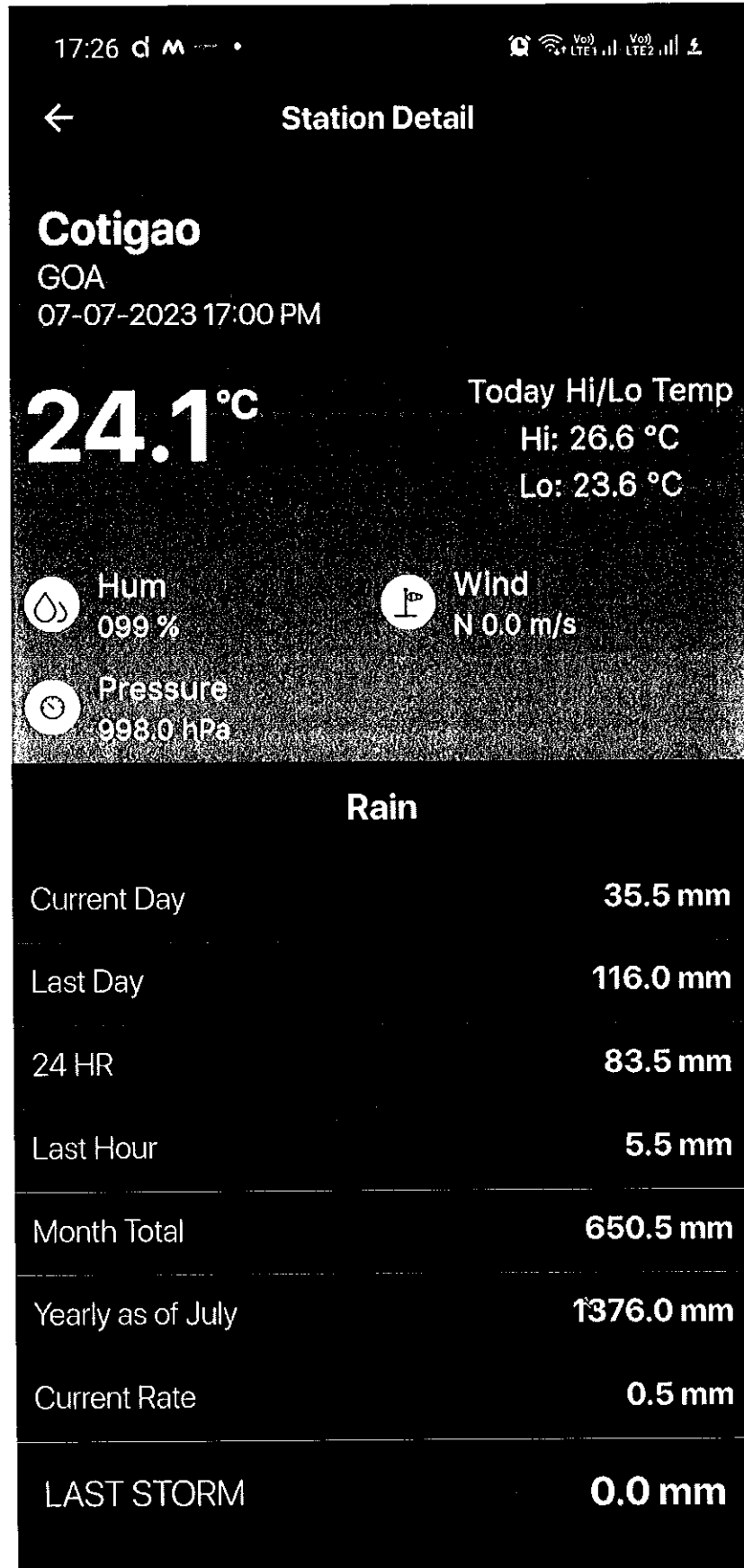
Cotigao Data Reception on Web Portal



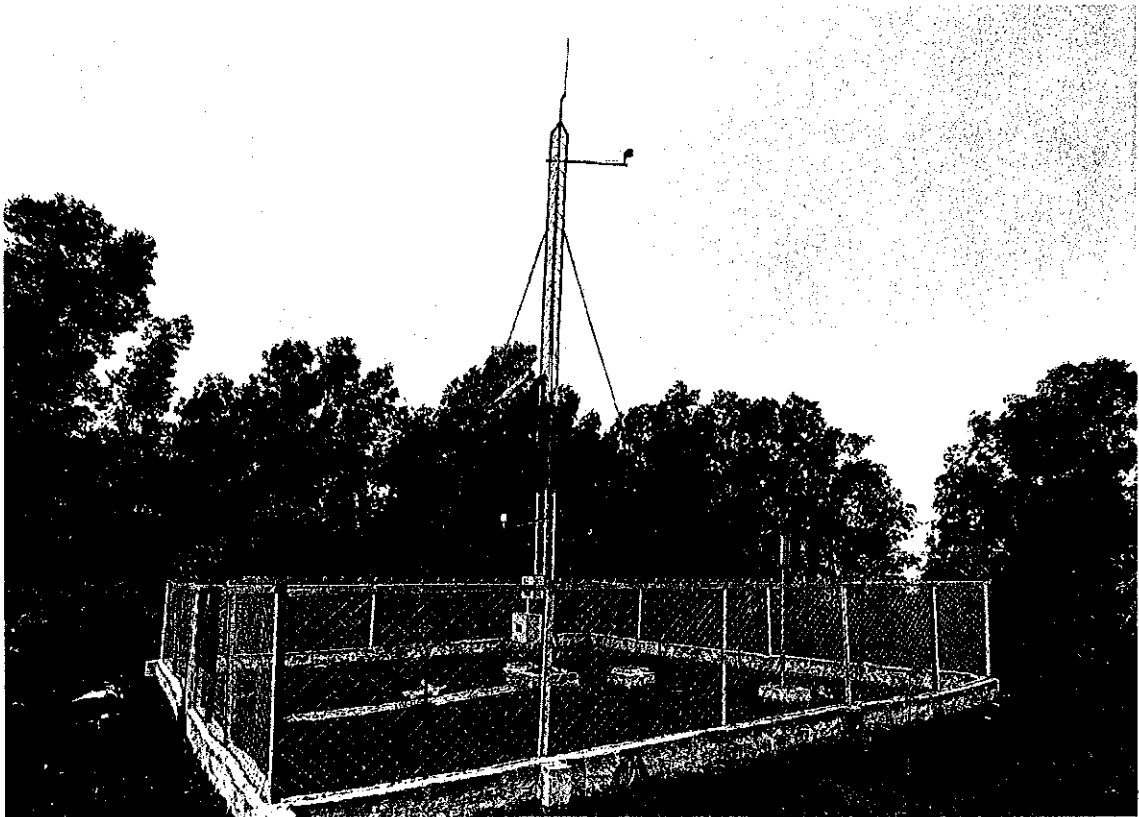
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ID	Date (MM/DD/YYYY)	Time	Battery Voltage V	Hourly Rainfall mm	Daily Rain mm	Air Temperature C	Temperature Minimum C	Temperature Maximum C	Temperature Day Min Max C	Humidity %	Humidity Minimum %
1	Jul 07, 2023	17:30	12.0	000.5	0038.0	+24.4	+24.2	+24.4	+20.7	099	099
2	Jul 07, 2023	17:16	12.1	001.5	0037.0	+24.2	+24.1	+24.2	--	099	099
3	Jul 07, 2023	17:00	12.0	000.5	0038.0	+24.1	+24.0	+24.2	--	099	099
4	Jul 07, 2023	16:45	12.0	000.5	0035.0	+24.1	+23.9	+24.1	--	099	099
5	Jul 07, 2023	16:30	12.0	001.0	0035.0	+24.0	+24.0	+24.1	--	099	098
6	Jul 07, 2023	16:15	12.2	000.5	0034.0	+24.2	+24.1	+24.3	--	099	097
7	Jul 07, 2023	16:00	12.1	003.0	0033.0	+24.4	+24.4	+25.3	--	098	097
8	Jul 07, 2023	15:45	12.1	000.5	0030.0	+25.2	+25.0	+25.3	--	099	098
9	Jul 07, 2023	15:30	12.1	000.0	0030.0	+25.1	+25.1	+25.3	--	099	099
10	Jul 07, 2023	15:15	12.3	000.5	0030.0	+25.2	+25.1	+25.2	--	099	099
11	Jul 07, 2023	15:00	12.1	000.0	0029.0	+25.1	+24.8	+25.1	--	099	098
12	Jul 07, 2023	14:45	12.1	000.0	0029.0	+24.8	+24.8	+24.8	--	098	098
13	Jul 07, 2023	14:30	12.1	004.0	0029.0	+24.9	+24.9	+28.0	--	098	098
14	Jul 07, 2023	14:15	12.3	000.0	0025.0	+26.0	+25.8	+28.0	--	098	098
15	Jul 07, 2023	14:00	12.1	000.0	0025.0	+26.7	+25.4	+25.8	--	098	097
16	Jul 07, 2023	13:45	12.1	000.0	0025.0	+25.3	+25.3	+25.4	--	098	098
17	Jul 07, 2023	13:30	12.1	000.0	0025.0	+25.4	+25.3	+25.4	--	098	097
18	Jul 07, 2023	13:15	12.2	002.5	0025.0	+25.3	+25.3	+28.3	--	097	098

Cotigao Data Reception on Mobile App



Site 5: Netravalli Wildlife Sanctuary



Netravalli Data Reception on Web Portal

Type StationID or StationName and click on search...

Netravali GFD00005 Active
 Fri Jul 07 2023 17:37:54 GMT+0530 (India Standard Time)

Latest Observation

Image Map

No Image Available

COPY EXCEL PDF COLUMN VISIBILITY Q Search

ID	Date (MM dd yyyy)	Time	Battery Voltage V	Hourly Rainfall mm	Daily Rain mm	Air Temperature C	Temperature Minimum C	Temperature Maximum C	Temperature Day Min Max C	Humidity %	Humidity Minimum %
1	Jul 07, 2023	17:30	12.4	002.0	0123.0	+23.7	+23.7	+23.9	+28.0	008	008
2	Jul 07, 2023	17:15	12.7	003.0	0121.0	+23.9	+23.7	+23.9	--	009	008
3	Jul 07, 2023	17:00	12.4	005.0	0118.5	+23.7	+23.8	+23.8	--	008	008
4	Jul 07, 2023	16:45	12.4	018.0	0113.0	+24.1	+24.1	+24.5	--	008	008
5	Jul 07, 2023	16:30	12.6	002.0	0095.0	+24.0	+24.0	+24.7	--	008	008
6	Jul 07, 2023	16:15	12.8	004.0	0093.0	+24.6	+24.5	+24.6	--	008	009
7	Jul 07, 2023	16:00	12.4	005.0	0089.0	+24.5	+24.1	+24.5	--	008	008
8	Jul 07, 2023	15:45	12.8	005.0	0084.0	+24.1	+24.0	+24.2	--	008	008
9	Jul 07, 2023	15:30	12.6	003.0	0079.0	+24.0	+24.0	+24.3	--	008	008
10	Jul 07, 2023	15:15	13.1	000.0	0076.0	+24.4	+24.4	+24.6	--	008	007
11	Jul 07, 2023	15:00	12.8	002.0	0070.0	+24.5	+24.3	+24.6	--	008	008
12	Jul 07, 2023	14:45	12.6	007.0	0074.0	+24.2	+24.2	+24.4	--	008	008
13	Jul 07, 2023	14:30	12.5	004.0	0067.0	+24.5	+24.1	+24.5	--	008	008
14	Jul 07, 2023	14:15	12.7	010.0	0063.0	+24.1	+24.0	+24.1	--	008	008
15	Jul 07, 2023	14:00	12.7	013.0	0059.0	+23.9	+23.8	+24.1	--	008	008
16	Jul 07, 2023	13:45	12.7	014.0	0040.0	+24.0	+23.9	+24.1	--	008	008
17	Jul 07, 2023	13:30	12.6	005.0	0028.0	+24.1	+24.0	+24.4	--	008	007
18	Jul 07, 2023	13:15	13.3	008.0	0021.0	+24.7	+24.7	+25.8	--	008	007

Netravalli Data Reception on Mobile App

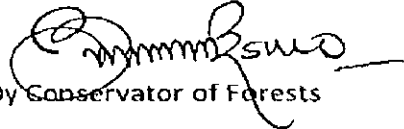


WORK COMPLETION CERTIFICATE

(Work Order No.: 1-761/WL&ET(N)/2022-2023/4637 Dated 13.03.2023)

This is to certify that M/S Azista Industries Private Limited, Ahmedabad (Under Work Order No.: 1-761/WL&ET(N)/2022-2023/4637 Dated 13.03.2023) have successfully completed the work of Procurement, Installation & commissioning of 5 no's Automatic Weather stations at various PAs which includes 10 meter metrological tower with fencing and mounting accessories, DCP Box with data logger and GPRS Modem, Sensor like Air temperature & Relative Humidity Sensor, Atmospheric Pressure Sensor, Wind Speed and Direction Sensor, Tipping Bucket Rain Gauge, Soil temperature and Moisture sensor at 10 cm and 70 cm depth with GSM/GPRS based telemetry including Operation & Maintenance for 5 years".

This is further to certify that the above work is completed satisfactory as per given standard terms and specifications.



Dy Conservator of Forests
Wildlife & Eco Tourism Division (North)

QUARTERLY REPORT

From (01/04/2023 to 30/06/2023)

SETTING UP AUTOMATIC WHEATHER STATIONS IN PROTECTED AREAS OF GOA

1. Name of State /District/city:-

GOA

NORTH GOA

(a) Maloli, Sattari

SOUTH GOA

(a) Bondla Usgaon

(b) Mollem Dharbandora

(c) Netravali, Sanguem

(d) Cotigao, Cancona

2. Name of AWS-Installation LOCATION

- RFO-Maloli Sattari
- RFO,Bondla Usgao
- RFO, Mollem Dharbandora
- RFO, Netravli Sanguem
- RFO,Cotigao, Cancona

3. Location details : All site where AWS are installed are notified Wildlife Sanctuaries under WLPA-1972.

4. Installation Details: The agency commences the work of installation, fixing and mounting of sensor equipment's along with fencing material, gates & sign Boards at all 5sites and has also completed the work related to web portal application, mobile application etc. which included SMC charges & 3 yrs warranty. This work amounts to Rs. 19.50Lakhs which is completed & bills are under submission.

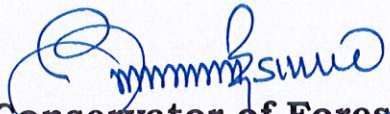
5. Cost of Project:- 65Lakhs

(a) Total Approved Cost of Project :- Rs.65Lakhs

(b) 1st Installment (70%) received:- Rs. 45.50Lakhs

(c) Amount utilized till 31st March 2023:- Rs. 45.50Lakhs

(d) 2nd Installment (30%) not received: Rs. 19.50Lakhs


**Dy. Conservator of Forests
Wildlife & Eco-tourism (N)**