



Government of Maharashtra
Forest Department

Deputy Conservator of Forests, Dahanu Forest Division, Dahanu.
Dahanu Agar Road, Near Panchayat Samiti, Dahanu, Tal-Dahanu,
Dist-Palghar, Pin 401 601. E-Mail Id: dycfdahanu@mahaforest.gov.in

Letter No. A/20/FCA/ 867 /2024-25, Dahanu- 401 601, Dt. 02 /09/2024.

To,

The Chief Conservator of Forests (T),
Thane.

Subject :- Diversion of 20.5983 ha. Forest Land in favour of MHSETCL, Kalyan for laying of 132 KV LILO D/C Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) T ransmission Line for 220 KV Palghar Sub Station passing through Palghar district in the state of Maharashtra-FP/MH/TRANS/116830/ 2020-in-principal approval-regarding.

- Ref :-1. Government of India, MoEF&CC, Letter No. F.No.FC-II/MH-225/2023-NGP/13165, Date- 06.05.2024.
2. Executive Enginer, EHV Project division, Kalyan Letter No. EE/EHV/PR/DN/KLN/T-256-E/No.1587, Date 29.08.2024.

In-Principal approval has been received subject to certain terms and conditions vide the above reference letter No.1 from the Central Government. The Compliance report regarding the terms and conditions of the said letter is being submitted as follows.

S.N	Points	Compliance
1	Legal status of the forest land shall remain unchanged.	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-1).
2	The demarcation of the proposed forest area shall be carried out at suitable places as per the direction of the DCF concerned at the cost of the User Agency;	<p>The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-2).</p> <p>The User Agency has deposited amount of Demarcation of the proposed forest area Rs.17,64,544/- to MAHARASHTRA CAMPA (CAMPA) A/c No. 1507864116830152 Union</p>

		bank of India IFCS code UBIN0996335, Bengaluru by NEFT/RTGS Challan. (Annexure-3)						
3	Compensatory afforestation shall be taken up by the Forest Department over 42.00 Ha. of degraded forest area i.e. 20.00 ha. Area identified in Survey /Gut No. 632, C.No.5688/I of Village-Aalegaon, Tal-Mukhed, Dist-Nanded and 22.00 ha. Identified in Survey /Gut No.193. C.No.322 of Village-Mangrul, Tal-Himaytnagar, Dist-Nanded at the Cost of the User Agency.	<p>Compensatory afforestation shall be taken up by the Forest Department over 42.00 Ha. of degraded forest area i.e. 20.00 ha. Area identified in Survey /Gut No. 632, C.No.5688/I of Village-Aalegaon, Tal-Mukhed, Dist-Nanded and 22.00 ha. Identified in Survey /Gut No.193. C.No.322 of Village-Mangrul, Tal-Himaytnagar, Dist-Nanded at the Cost of the User Agency.</p> <p>User Agency has remitted following amount to CAMPA A/c via E-Challan application No. 64116830152 dated 19/08/2024.</p> <table border="1"> <thead> <tr> <th>Sr No</th><th>Particulars</th><th>Amount transferred to MAHARASHTRA CAMPA (Rs.)</th></tr> </thead> <tbody> <tr> <td>1</td><td>Compensatory Afforestation</td><td>3,54,95,376/-</td></tr> </tbody> </table> <p>(Annexure- 3)</p>	Sr No	Particulars	Amount transferred to MAHARASHTRA CAMPA (Rs.)	1	Compensatory Afforestation	3,54,95,376/-
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5	<p>The State Government shall charge the Net Present Value of the diverted forest land measuring 20.5983 ha. from the User Agency as per the orders of the Hon'ble Supreme Court dated 28.03.2008 and 29.05.2008 in IA Nos.826 in 566 with related IA's in Writ Petition (Civil) No.202/1995 and Ministry's guideline;</p>	<p>The User Agency has deposited amount of NPV Rs.2,95,92,960/- to MAHARASHTRA CAMPA (CAMPA) A/c No. 1507864116830152 Union bank of India IFCS code UBIN0996335, Bengaluru by NEFT/RTGS Challan. (Annexure-3)</p>																				
6	<p>Additional amount of the Net Present Value (NPV) of the diverted forest land if any, becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect.</p>	<p>The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-4).</p>																				
7	<p>All the funds received from the User Agency under the project shall be transferred /deposited to CAMPA fund only through e-portal. (https://parivesh.nic.in);</p>	<p>Total Amount of Rs. 8,70,86,734/- has been transferred to MAHARASHTRA CAMPA through e-portal. The details are as below.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center; padding: 2px;">S. N.</th> <th style="text-align: center; padding: 2px;">Particulars</th> <th style="text-align: center; padding: 2px;">Amount transferred to MAHARASHTRA CAMPA (Rs.)</th> <th style="text-align: center; padding: 2px;">Details of Amount Transferred</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 2px;">1</td> <td style="text-align: center; padding: 2px;">CA</td> <td style="text-align: center; padding: 2px;">35495376</td> <td rowspan="5" style="vertical-align: middle; padding: 2px;">Amount transferred to A/c No. 1507864116830152 Date 19/8/2024</td> </tr> <tr> <td style="text-align: center; padding: 2px;">2</td> <td style="text-align: center; padding: 2px;">NPV</td> <td style="text-align: center; padding: 2px;">29592960</td> </tr> <tr> <td style="text-align: center; padding: 2px;">3</td> <td style="text-align: center; padding: 2px;">Dwarf Species (Medicinal plantation)</td> <td style="text-align: center; padding: 2px;">5233854</td> </tr> <tr> <td style="text-align: center; padding: 2px;">4</td> <td style="text-align: center; padding: 2px;">Wildlife Conservation Plan</td> <td style="text-align: center; padding: 2px;">7500000</td> </tr> <tr> <td style="text-align: center; padding: 2px;">5</td> <td style="text-align: center; padding: 2px;">Soil Conservation Plan</td> <td style="text-align: center; padding: 2px;">7500000</td> </tr> </tbody> </table>	S. N.	Particulars	Amount transferred to MAHARASHTRA CAMPA (Rs.)	Details of Amount Transferred	1	CA	35495376	Amount transferred to A/c No. 1507864116830152 Date 19/8/2024	2	NPV	29592960	3	Dwarf Species (Medicinal plantation)	5233854	4	Wildlife Conservation Plan	7500000	5	Soil Conservation Plan	7500000
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8	For felling of mangroves, the state government/user agency shall ensure to obtain prior permission from the Hon'ble High Court;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-5) .								
9	Felling of trees, especially mangroves trees shall be done wherever necessary and by restricting felling at the tower places and service paths. Felling of mangroves shall be restricted wherever necessary and felling shall be under guidance of competent authority of the mangrove Cell of the Maharashtra State Forest Department.	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-6) .								
10	Proper wild life conservation plan (with particular emphasis to avifauna and mangrove ecosystem) is needed to prepare in consultation with the mangrove cell and such plan shall be duly approved by the competent authority. The User Agency shall implement such WL mitigation plan to minimize the impact due to the project and for conservation of the local eco system.	<p>The Site Specific Wildlife Conservation Plan is submitted vide letter No.A/20/Land/120/2024-25, Dated 29.04.2024 for necessary approval. The said wildlife conservation plan has been approved by Principal Chief Wildlife Warden, Nagpur on 15.07.2024. Copies of the approvals are attached as (Annexure-7).</p> <p>The approved Site-Specific Wildlife Conservation Plan is attached as (Annexure-8)</p>								
11	Proper soil conservation plan needs to be implemented at the cost of the User Agency to arrest	The Soil Conservation Plan is submitted vide letter No.A/20/Land/281/ 2024-25, Dated 28.05.2024 for necessary approval. The said								

	soil erosion.	wildlife conservation plan has been approved by Principal Chief Wildlife Warden, Nagpur on 15.07.2024. Copies of the approvals are attached as (Annexure-9) . The approved Soil Conservation Plan is attached as (Annexure-10)
12	Wherever possible, Dwarf species (especially medicinal plants) shall be raised under the transmission line at the project cost;	The User Agency has deposited amount of Dwarf species (Medicinal Plants) Rs.52,33,854/- to MAHARASHTRA CAMPA, A/c No. 1507864116830152 Union bank of India IFCS code UBIN0996335, Bengaluru by NEFT/RTGS Challan. (Annexure-3) A copy of medicinal plantation estimate is being submitted as (Annexure- 11).
13	The State Government shall issue working permission only after submission of wild life conservation plan and SMC plans to the Regional Office and compliance to all such condition (so to issue such working permission.	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-12).
14	The User Agency shall ensure to maintain required RoW in the entire alignment as per the standard RoW required for 132 KV transmission line;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-13).
15	UA shall provide Bird diverters to be installed at technically suitable distance at the cost of User Agency;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-14).

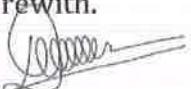
16	The State /UA shall ensure all other approvals/permission under relevant rules/ regulation, if any required prior to commencement of the project work.	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-15).
17	Proper labour camps shall be constructed in the non-forest area and in any case, labour camp shall not be made within the RF area;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-16).
18	Before issuing the working permission or diversion order as the case may be, the State Government shall ensure settlement of rights under the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (2 of 2007) and ensure required certificate from the competent authority in prescribed format;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-17).
19	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986, if applicable;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-18).
20	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same form the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-19).

21	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution of the project work;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-20).
22	The Forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-21).
23	The total forest area utilized for the project shall not exceed 20.5983 ha. and the forest area diverted shall not be used for any purpose other than those shown in the diversion proposal. The User Agency shall furnish an undertaking to this effect.	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-22).
24	The User Agency and the State Government shall ensure compliance to the all acts, rules, regulation and guidelines of the Ministry, for the time being in force, as applicable to the subject project;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-23).
25	Any other condition that the Regional Office, Nagpur may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area shall be complied by the User Agency;	The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-24).

26	<p>In the event of failure to comply with any of the above conditions the User Agency is liable for penal action as per the rules/ guidelines issued under Van (Sanrakshan E�am Smavardhan) Adhiniyam, 1980.</p>	<p>The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-25).</p>
27	<p>The State Government shall process and submit compliance report on the above conditions through online (https://parivesh.nic.in)</p>	<p>The User Agency has submitted an undertaking regarding this. The copy of the same is enclosed herewith as. (Annexure-26).</p>

The compliance of the observation is submitted herewith.

Encl : - 4 Sets of Compliance report.



(N.S.Divakar.)

Deputy Conservator of Forests,
Dahanu Forest Division, Dahanu.

Copy to Executive Engineer, EHV Project division, Kalyan for information and necessary action.

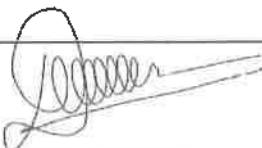
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Proforma Remittance

1	Name of Regional Office	:	The Chief Conservator of Forests, Thane
2	State/Dist/Forest Division to which the proposal relates	:	State :- Maharashtra District :- Palghar Forerst Division :- Dahanu Forest Division, Dahanu.
3	Name of the User Agency, Nature of Proposal	:	Executive Engineer, EHV Project Division, M.S.E.T.C.L., Kalyan.
4	Extents of forest area involved	:	20.5983
5	Whether original, or extension	:	Original.
6	If extension of lease, please clarify if proposal involves additional forest area, and if so, specify	:	Nil
7	Date of 1 st stage clearance	:	F.No.FC-II/MH-225/2023-NGP/13165, Dated- 06.05.2024.
8	Extent of CAMPA charges,headwise	:	
a)	Compensatory Afforestation	:	Rs. 3,54,95,376/-
b)	Additional Compensatory Afforestation	:	Nil
c)	Penal Compensatory Afforestation	:	Nil
d)	Catchment Area Treatment	:	Nil
e)	Wildlife Management Plan	:	75,00,000/-
f)	Additional charges for diversion of area falling under notified/protected area	:	Nil
g)	Net Present Value	:	Rs. 2,95,92,960/-
h)	Any other Charges / levies	:	i) Dwarf Species (Medicinal Plants) Rs. 52,33,854/- ii) Soil Conservation Plan Rs- 75,00,000/- iii) Cement Pillars for diverted area 17,64,544/-

9	Details of Bank Draft No., Date & Amount} head-wise against items in paragraph above.	<p>: Total amount of Rs.8,70,86,734/- has been transferred to MAHARASHTRA CAMPA through e-portal. The details are as below.</p> <table border="1"> <thead> <tr> <th>S N.</th><th>Particulars</th><th>Amount Transferred to CAMPA</th><th>Details of Amount Transferred</th></tr> </thead> <tbody> <tr> <td>1</td><td>Compensatory Afforestation</td><td>3,54,95,376</td><td rowspan="6">Amount transferred to A/c No. 1507864116830152 Dated 19.08.2024</td></tr> <tr> <td>2</td><td>NPV</td><td>2,95,92,960</td></tr> <tr> <td>3</td><td>Dwarf Species (Medicinal Plants)</td><td>52,33,854</td></tr> <tr> <td>4</td><td>Wildlife Conservation Plan</td><td>75,00,000</td></tr> <tr> <td>5</td><td>Soil Conservation Plan</td><td>75,00,000</td></tr> <tr> <td>6</td><td>Cement Pillars for diverted area</td><td>17,64,544</td></tr> <tr> <td align="right">Total</td><td align="right">8,70,86,734</td><td align="right"></td><td></td></tr> </tbody> </table> <p>Rs. 3502550/- for tree felling is deposited to Dy.C.F. Dahanu vide Demand Draft No. 694656, dated 20.08.2024.</p>	S N.	Particulars	Amount Transferred to CAMPA	Details of Amount Transferred	1	Compensatory Afforestation	3,54,95,376	Amount transferred to A/c No. 1507864116830152 Dated 19.08.2024	2	NPV	2,95,92,960	3	Dwarf Species (Medicinal Plants)	52,33,854	4	Wildlife Conservation Plan	75,00,000	5	Soil Conservation Plan	75,00,000	6	Cement Pillars for diverted area	17,64,544	Total	8,70,86,734		
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10	Whether deposited by RTGS. If so, the particulars & date of remittance.	<p>: Yes.</p> <p>User agency has directly remitted an amount of Rs. 8,70,86,734/- to CAMPA via E-Challan.</p> <table border="1"> <thead> <tr> <th>Sr. No</th><th>Particular.</th><th>Amount transferred to Ad-hoc CAMPA (in Rs.)</th><th>Details of Amount Transferred</th></tr> </thead> <tbody> <tr> <td>1</td><td>Compensatory Afforestation</td><td>3,54,95,376</td><td rowspan="6">Amount transferred to A/c No. 1507864116830152 Dated 19.08.2024</td></tr> <tr> <td>2</td><td>NPV</td><td>2,95,92,960</td></tr> <tr> <td>3</td><td>Dwarf Species (Medicinal Plants)</td><td>52,33,854</td></tr> <tr> <td>4</td><td>Wildlife Conservation Plan</td><td>75,00,000</td></tr> <tr> <td>5</td><td>Soil Conservation Plan</td><td>75,00,000</td></tr> <tr> <td>6</td><td>Cement Pillars for diverted area</td><td>17,64,544</td></tr> <tr> <td align="right">Total</td><td align="right">8,70,86,734</td><td align="right"></td><td></td></tr> </tbody> </table> <p>Rs. 3502550/- for tree felling is deposited to Dy.C.F. Dahanu vide Demand Draft No. 694656, dated 20.08.2024.</p>	Sr. No	Particular.	Amount transferred to Ad-hoc CAMPA (in Rs.)	Details of Amount Transferred	1	Compensatory Afforestation	3,54,95,376	Amount transferred to A/c No. 1507864116830152 Dated 19.08.2024	2	NPV	2,95,92,960	3	Dwarf Species (Medicinal Plants)	52,33,854	4	Wildlife Conservation Plan	75,00,000	5	Soil Conservation Plan	75,00,000	6	Cement Pillars for diverted area	17,64,544	Total	8,70,86,734		
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12	Any other remarks	:	<p>The compliance report regarding the conditions in the In-Principal approval letter from the Central Government to this office No.A/20/FCA/867, Dated 02.09.2024 has been submitted to the Chief Conservator of Forests (T), Thane.</p>															



(N. S. Divakar)
 Deputy Conservator of Forests,
 Dahanu Forest Division, Dahanu.



Office of the Executive Engineer, E.H.V. Projects Division, Kalyan.
IInd floor, 'A' wing, 'Tejashri Bldg.', Jahangir Maidan, Karnik road,
M.S.E.T. Co. Ltd., Kalyan (W) 421 301.

E-mail - ee7620@gmail.com, ee7620@mahatransco.in

Ref. No. EE/EHV/ PR/DN/KLN/T-256-E / No 4587

Date: 29/08/2024.

To,
Deputy Conservator of Forest,
Dahanu Forest Division Dahanu.

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iii	Compensatory afforestation shall be taken up by the Forest Department over 42.00 ha of degraded forest area i.e. 20.00 ha. Area identified in Survey/Gut Sir, J - No.632, C.No.5688/I of Village Alegaon, Tal. Mukhed, Dist. Nanded and 22.00 ha. Identified in Survey/Gut No.193, C.N0.322 of Village Mangrul, Tai. Himaytnagar, Dist. Nanded at the cost of the User Agency.	User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code – UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No.). Dated 20.08.2024 Which included Rs.3,54,95,376/- Towards the cost of Compensatory afforestation over 42.00 ha. Annexure -III.

Iv.	Compensatory afforestation shall be carried out as per the provision of Van (SanrakshanEvaSamvardhan) Rule, 2023 in time bound manner and proper fencing and watch and ward will be ensured.	User agency has submitted undertaking is enclosed as Annexure -IV																							
V.	The State Government shall charge the Net Present Value of the diverted forest land measuring 20.5983 ha. from the User Agency as per the orders of the Hon'ble Supreme Court dated 28.03.2008 and 09.05.2008 in IA Nos.826 in 566 with related IA's in Writ Petition (Civil) No.202/1995 and Ministry's guideline	<p>User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code – UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No..). Dated 20.08.2024. Which included Rs.3,54,95,376/- Towards the cost of NPV</p> <p>The user agency has also given an undertaking which is enclosed as Annexure -V.</p>																							
vi.	Additional amount of the Net Present Value (NPV) of the diverted forest land if any, becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from the User Agency. The User Agency shall furnish an undertaking to this effect	User agency has also given certificate enclosed and copy of challan enclosed herewith as Annexure -VI.																							
vii.	All the funds received from the User Agency under the project shall be transferred/ deposited to CAMPA fund only through e-portal (https://parivesh.nic.in/)	<p>User agency has submitted the undertaking is enclosed as Annexure -VII</p> <table border="1"> <thead> <tr> <th>S r . N o</th><th>Particular</th><th>Amoun t Deposit ed in Ad- CAMP A</th><th>Details of Amoun t transfer red</th></tr> </thead> <tbody> <tr> <td>1</td><td>C.A .Land</td><td>3,54,95 ,376/-</td><td rowspan="6">Vide UTR no. list attached separately (Page No. dated 20.08.2024)</td></tr> <tr> <td>2</td><td>NPV</td><td>2,95,92 ,960/-</td></tr> <tr> <td>3</td><td>Medicinal Plant</td><td>52,33,8 54/-</td></tr> <tr> <td>4</td><td>Wildlife conservati on plan</td><td>75,00,0 00/-</td></tr> <tr> <td>5</td><td>Soil conservati on plan</td><td>75,00,0 00/-</td></tr> <tr> <td>6</td><td>Cement Pillars</td><td>17,64,5 44/-</td></tr> </tbody> </table>	S r . N o	Particular	Amoun t Deposit ed in Ad- CAMP A	Details of Amoun t transfer red	1	C.A .Land	3,54,95 ,376/-	Vide UTR no. list attached separately (Page No. dated 20.08.2024)	2	NPV	2,95,92 ,960/-	3	Medicinal Plant	52,33,8 54/-	4	Wildlife conservati on plan	75,00,0 00/-	5	Soil conservati on plan	75,00,0 00/-	6	Cement Pillars	17,64,5 44/-
S r . N o	Particular	Amoun t Deposit ed in Ad- CAMP A	Details of Amoun t transfer red																						
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5	Soil conservati on plan	75,00,0 00/-																							
6	Cement Pillars	17,64,5 44/-																							

		Grand Total	8,70,86,734/-
viii.	For felling of mangroves, the state government/user agency shall ensure to obtain prior permission from the Hon'ble High Court	User agency has submitted the undertaking is enclosed as Annexure -VIII	
ix.	Felling of trees, especially mangroves trees shall be done wherever necessary and by restricting felling at the tower places and service paths. Felling of mangroves shall be restricted wherever necessary and felling shall be under guidance of the competent authority of the Mangrove Cell of the Maharashtra State Forest Department	User agency has deposited total Rs.35,02,550/- to Deputy Conservator of forest Dahanu towards felling of trees on the diverted forest land through Demand Draft (DD) No. 694656 Dated 20.08.2024. User agency has submitted the undertaking is enclosed as Annexure -IX	
x.	Proper wild life conservation plan (with particular emphasis to avifauna and mangrove ecosystem) is needed to be prepared in consultation with the mangrove cell and such plan shall be duly approved by the competent authority. The User Agency shall implement such WL mitigation plan to minimize the impact due to the project and for conservation of the local ecosystem	User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code – UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No..). Dated 20.08.2024. Which included Rs.75,00,000/- Towards the cost of wild life conservation plan (with particular emphasis to avifauna and mangrove ecosystem. Annexure -X	
xi.	Proper soil conservation plan needs to be implemented at the cost of the User Agency to arrest soil erosion.	User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code – UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No..). Dated 20.08.2024. Which included Rs.75,00,000/- Towards the cost of soil conservation plan Annexure -XI	
xii.	Wherever possible, Dwarf species (preferably medicinal plants) shall be raised under the transmission line at the project cost	User agency has submitted the undertaking is enclosed as Annexure -XII User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code – UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No..). Dated 20.08.2024. Which included Rs.75,00,000/- Towards the cost of	

		Dwarf species (preferably medicinal plants).
xiii.	The State Government shall issue working permission only after submission of wild life conservation plan and SMC plans to the Regional Office and compliance to all such condition (s) to issue such working permission.	User agency has submitted the undertaking is enclosed as Annexure -XII .
xiv.	The User Agency shall ensure to maintain required RoW in the entire alignment as per the standard RoW required for 132 KV transmission line	User agency has submitted the undertaking is enclosed as Annexure -XIV
xv.	UA shall provide Bird reflectors to be installed at technically suitable distance at the cost of User Agency	User agency has submitted the undertaking is enclosed as Annexure -XV
xvi.	The State / UA shall ensure all other approvals / permission under relevant rules/ regulation, if any required prior to commencement of the project work.	User agency has submitted the Certificate is enclosed as Annexure -XVI
xvii.	Proper labour camps shall be constructed in the non-forest area and in any case, labour camp shall not be made within the RF area.	User agency has submitted the undertaking is enclosed as Annexure -XVII
xviii.	Before issuing of working permission or diversion order as the case may be, the State Government shall ensure settlement of rights under I 1 the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (2 of 2007) and ensure required certificate from the competent authority in the prescribed format	User agency has submitted the undertaking is enclosed as Annexure -XVIII
xix	User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986. if applicable	User agency has submitted the undertaking is enclosed as Annexure -XIX
xx.	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourers after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel	User agency has submitted the undertaking is enclosed as Annexure -XX
xxi	No additional or new path will be constructed inside the forest area for the transportation of construction materials for execution of the project work.	User agency has submitted the undertaking is enclosed as Annexure -XXI
xxii.	The forest land proposed to be diverted shall under no circumstances be transferred or sublet to any other agencies. department or person without prior approval of Govt. of India.	User agency has submitted the undertaking is enclosed as Annexure -XXII
xxiii.	The total forest area utilized for the project shall not exceed 20.5983 ha. and the forest area diverted shall not be used for any purpose other than those shown in the diversion proposal. The User Agency shall furnish an undertaking to this effect.	User agency has submitted the undertaking is enclosed as Annexure -XXIII
xxiv.	The User Agency and the State Government shall	User agency has submitted the

	ensure compliance to the all acts, rules, regulation and guidelines of the Ministry, for the time being in force, as applicable to the subject project.	undertaking is enclosed as Annexure -XXIV
xxv.	Any other condition that the Regional Office, Nagpur may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area shall be complied by the User Agency.	User agency has submitted the undertaking is enclosed as Annexure -XXV
xvi	In the event of failure to comply with any of the above conditions the User Agency is liable for penal action as per the rules / guidelines issued under Van(SanrakshanEvaSamvardhan) Adhiniyam, 1980	User agency has submitted the undertaking is enclosed as Annexure -XXVI
xxvii	The State Government shall process and submit compliance report on the above conditions through online (https://parivesh.nic.in/).	User agency has submitted the undertaking is enclosed as Annexure -XXVII

Encl:

Submitting herewith Compliance report as above against Stage-I now requested to kindly issue Stage-II approved at an earliest.


 (YogeshPachpande)
 Executive Engineer
 EHV Project division,
 MSETCL,Kalyan.
 Executive Engineers
 M.S.E.I. Co. Ltd.
 G.H.V. Projects Dn. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KV LILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref:- DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.1

With reference to above, we the project authority, do hereby undertake that, The legal status of the land shall remain unchanged.

yogesh pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division,
MSETCL,Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalvan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref:- DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.2

With reference to above, we the project authority, do hereby undertake that, the Demarcation of the proposed forest area shall be carried out at suitable places as per the direction of the DCF concerned at the cost of the User Agency.

yogesh
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL,Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address:	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYAN Thane
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

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Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank,
ubin0903710@unionbankofindia.bank

Yogeswaran
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02991--MAHARASHTRA CAMPA	RTGS INB: CRG4654243	TRANSFER TO 9599110044308 / MAHARASHTRA CAMPA
67	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02992--MAHARASHTRA CAMPA	RTGS INB: CRG4654310	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
68	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02993--MAHARASHTRA CAMPA	RTGS INB: CRG4654081	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
69	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02994--MAHARASHTRA CAMPA	RTGS INB: CRG4653977	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
70	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02995--MAHARASHTRA CAMPA	RTGS INB: CRG4653952	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
71	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02996--MAHARASHTRA CAMPA	RTGS INB: CRG4653924	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
72	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02997--MAHARASHTRA CAMPA	RTGS INB: CRG4653708	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
73	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02998--MAHARASHTRA CAMPA	RTGS INB: CRG4653439	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
74	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 02999--MAHARASHTRA CAMPA	RTGS INB: CRG4653276	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
75	20-08-2024	20-08-2024	TO TRANSFER-INB NEFT UTR NO: SBINR120240820... 03000--MAHARASHTRA CAMPA	NEFT INB: CRG4655271	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
76	20-08-2024	20-08-2024	TO TRANSFER-INB NEFT UTR NO: SBINR120240820... 03001--MAHARASHTRA CAMPA	RTGS INB: CRG4655823	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
77	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03002--MAHARASHTRA CAMPA	RTGS INB: CRG4655920	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
78	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03003--MAHARASHTRA CAMPA	RTGS INB: CRG4655932	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
79	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03004--MAHARASHTRA CAMPA	RTGS INB: CRG4655508	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
80	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03005--MAHARASHTRA CAMPA	RTGS INB: CRG4655381	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
81	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03006--MAHARASHTRA CAMPA	RTGS INB: CRG4655600	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
82	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03007--MAHARASHTRA CAMPA	RTGS INB: CRG4655035	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03008--MAHARASHTRA CAMPA	RTGS INB: CRG4655015	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
84	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03009--MAHARASHTRA CAMPA	RTGS INB: CRG4655493	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
85	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03010--MAHARASHTRA CAMPA	RTGS INB: CRG4655174	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
86	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03011--MAHARASHTRA CAMPA	RTGS INB: CRG4655156	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
87	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03012--MAHARASHTRA CAMPA	RTGS INB: CRG4655484	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
88	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820... 03013--MAHARASHTRA CAMPA		8,70,86,734

Yucorapre
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through PalgharDistrict in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: -DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.3

With reference to above, we the project authority, do hereby undertake thatCompensatory afforestation shall be taken up by the Forest Department over 42.00 ha of degraded forest area i.e. 20.00 ha. Area identified in Survey/Gut Sir, J - No.632, C.No.5688/I of Village Alegaon, Tal. Mukhed, Dist. Nanded and 22.00 ha.Identified in Survey/Gut No.193, C.N0.322 of Village Mangrul, Tai.Himaytnagar, Dist. Nanded at the cost of the User Agency.

Yogesh Pachpande
(YogeshPachpande)
Executive Engineer
EHV Project division
MSETCL,Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

CERTIFICATE

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through PalgharDistrict in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: -DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.3

With reference to above, we the project authority has User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code –UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No..) . Dated 20.08.2024 Which included Rs.3,54,95,376/- Towards the cost of Compensatory afforestation over 42.00 ha. Degraded forest area i.e. 20.00 ha. Area identified in Survey/Gut Sir, J - No.632, C.No.5688/I of Village Alegaon, Tal. Mukhed, Dist. Nanded and 22.00 ha. Identified in Survey/Gut No.193, C.N0.322 of Village Mangrul, Tai. Himaytnagar, Dist. Nanded at the cost of the User Agency.

Yogesh Pachpande
(YogeshPachpande)
Executive Engineer
EHV Project division
MSETCL,Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six
Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following
details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre,21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address:	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYAN Thane
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six
Thousand Seven Hundred and Thirty-Four Rupees Only

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details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

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ubin0903710@unionbankofindia.bank

Yogeswaran
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dr. Kalyan

66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072991-MAHARASHTRA CAMPA	RTGS INB: CRG4654243
67	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072992-MAHARASHTRA CAMPA	RTGS INB: CRG4654310
68	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072993-MAHARASHTRA CAMPA	RTGS INB: CRG4654081
69	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072994-MAHARASHTRA CAMPA	RTGS INB: CRG4655977
70	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072995-MAHARASHTRA CAMPA	RTGS INB: CRG4653952
71	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072996-MAHARASHTRA CAMPA	RTGS INB: CRG4653924
72	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072997-MAHARASHTRA CAMPA	RTGS INB: CRG4653724
73	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072998-MAHARASHTRA CAMPA	RTGS INB: CRG4653708
74	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR112024082048072999-MAHARASHTRA CAMPA	RTGS INB: CRG4653439
75	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807300-MAHARASHTRA CAMPA	RTGS INB: CRG4653276
76	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807301-MAHARASHTRA CAMPA	NEFT INB: CNADDVTU1
77	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807302-MAHARASHTRA CAMPA	RTGS INB: CRG4655523
78	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807303-MAHARASHTRA CAMPA	RTGS INB: CRG4655520
79	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807304-MAHARASHTRA CAMPA	RTGS INB: CRG4655332
80	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807305-MAHARASHTRA CAMPA	RTGS INB: CRG4655308
81	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807306-MAHARASHTRA CAMPA	RTGS INB: CRG4655381
82	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807307-MAHARASHTRA CAMPA	RTGS INB: CRG4655060
83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807308-MAHARASHTRA CAMPA	RTGS INB: CRG4655035
84	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807309-MAHARASHTRA CAMPA	RTGS INB: CRG4655015
85	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807310-MAHARASHTRA CAMPA	RTGS INB: CRG4654983
86	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807311-MAHARASHTRA CAMPA	RTGS INB: CRG4655174
87	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807312-MAHARASHTRA CAMPA	RTGS INB: CRG4655156
88	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR11202408204807313-MAHARASHTRA CAMPA	RTGS INB: CRG4654884

Yogendra

Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dr. Karan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMHI/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.4

With reference to above, we the project authority, do hereby undertake that the Compensatory afforestation shall be carried out as per the provision of Van (Sanrakshan Evam Samvardhan) Rule, 2023 in time bound manner and proper fencing and watch and ward will be ensured.

yogesh pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL,Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

UNDERTAKING

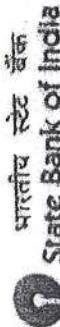
Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.5

With reference to above, we the project authority, do hereby undertake that The State Government shall charge the Net Present Value of the diverted forest land measuring 20.5983 ha. from the User Agency as per the orders of the Hon'ble Supreme Court dated 28.03.2008 and 09.05.2008 in IA Nos.826 in 566 with related IA's in Writ Petition (Civil) No.202/1995 and Ministry's guideline.

yogesh pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL,Kalyan
Executive Engineers
M.S.E.T. Co. Ltd.
E.H.V. Projects Dn. Kalyan



धारतीय स्टेट बैंक
State Bank of India

जारी करने वाली जारा
Issuing Branch: KALYAN
कोड में /CODE No: 00399
Tel No. 251-2208765

चांगला जानकार D.Y. CONSERVATOR OF FOREST DAHANU

रुपये RUPEES AND PAY

Thirty Five Lakh Two Thousand Five Hundred and Fifty Only

अदा करें ₹ 3502550.00

Key: QEBMEY	2	0	0	8	2	0	2	4
Sr. No: 110519	D	D	M	M	Y	Y	Y	Y
8								
या उनके आदेश पर OR ORDER	6							
प्राप्ति करने के लिए यह अधिकारीय दस्तावेज़ है। अधिकारीय दस्तावेज़ रुपये 1,50,000/- तक अधिक के लिए यह अधिकारीय दस्तावेज़ है। अधिकारीय दस्तावेज़ रुपये 1,50,000/- तक अधिक है।	1	2	3	4	5	6	7	
प्राप्ति करने के लिए यह अधिकारीय दस्तावेज़ है। अधिकारीय दस्तावेज़ रुपये 1,50,000/- तक अधिक है।	1	2	3	4	5	6	7	

101 000546694656
Name of Applicant Key: QEBMEY Sr. No: 110519
WSETCL KALYAN

कानूनी भाषा में लिखा गया है।
VALID FOR 3 MONTHS ONLY
VALID ONLY IF COMPUTER PRINTED

भारतीय स्टेट बैंक
STATE BANK OF INDIA
आदालता शाखा / DRAWEE BRANCH: DAHANU ROAD
छोड़कं. / CODE No: 00354

11 6 546 5611 00000 20001: 00054611 16

Yashwant

Executive Engineers

M.S.E.I. Co. Ltd.

E.H.V. Projects Dr. Kahan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.6

With reference to above, we the project authority, do hereby undertake that the additional amount of the Net Present Value (NPV) of the diverted forest land if any, becoming due after revision of the same by the Hon'ble Supreme Court of India in future, shall be charged by the State Government from the User Agency.

(Yogesh Pachpande)
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
(Executive Engineer)
Executive Engineer
M.S.E.I. Co. Ltd.
6.H.V. Projects Dn. Kalvan

CERTIFICATE

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.6

User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code -UBIN0996335 Bengaluru through RTGS vide UTR No. list attached separately(Page No.) . Dated 20.08.2024. Which included Rs.3,54,95,376/- Towards the cost of NPV User agency has also given certificate enclosed and copy of challan enclosed herewith as Annexure –VI.

Yogesh Pachpande
(YogeshPachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount In Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre,21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address:	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYAN Thane
Amount(in Rs)	87086734/-

Amount In Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank, ubin0903710@unionbankofindia.bank

Yogeswaran
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

63	ZUJU6-ZUZ4	AU-AB-2424	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204591 - MAHARASHTRA CAMPA	RTGS INB: CRG4654243	TRANSFER TO 99827044308 / MAHARASHTRA CAMPA	99922 10,00,000
66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204592 - MAHARASHTRA CAMPA	RTGS INB: CRG4654310	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA	99922 10,00,000
67	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204593 - MAHARASHTRA CAMPA	RTGS INB: CRG4654081	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA	99922 10,00,000
68	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204594 - MAHARASHTRA CAMPA	RTGS INB: CRG4653977	TRANSFER TO 4599109044304 / MAHARASHTRA CAMPA	99922 10,00,000
69	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204595 - MAHARASHTRA CAMPA	RTGS INB: CRG4653952	TRANSFER TO 4599109044305 / MAHARASHTRA CAMPA	99922 10,00,000
70	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204596 - MAHARASHTRA CAMPA	RTGS INB: CRG4653924	TRANSFER TO 4599109044305 / MAHARASHTRA CAMPA	99922 10,00,000
71	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045985 - MAHARASHTRA CAMPA	RTGS INB: CRG4653724	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA	99922 10,00,000
72	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045996 - MAHARASHTRA CAMPA	RTGS INB: CRG4653708	TRANSFER TO 4599113044303 / MAHARASHTRA CAMPA	99922 10,00,000
73	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045997 - MAHARASHTRA CAMPA	RTGS INB: CRG4653439	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
74	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045996 - MAHARASHTRA CAMPA	RTGS INB: CRG4653276	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
75	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045998 - MAHARASHTRA CAMPA	NEFT INB: CNADDYTUR1	TRANSFER TO 45991112044301 / MAHARASHTRA CAMPA	99922 86,734
76	20-08-2024	20-08-2024	TO TRANSFER-INB NEFT UTR NO: SBINR12024082045997 - MAHARASHTRA CAMPA	RTGS INB: CRG4655923	TRANSFER TO 4599109044309 / MAHARASHTRA CAMPA	99922 10,00,000
77	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204590 - MAHARASHTRA CAMPA	RTGS INB: CRG4655920	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA	99922 10,00,000
78	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045991 - MAHARASHTRA CAMPA	RTGS INB: CRG4655532	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
79	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045992 - MAHARASHTRA CAMPA	RTGS INB: CRG4655508	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA	99922 10,00,000
80	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045993 - MAHARASHTRA CAMPA	RTGS INB: CRG4655281	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
81	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045993 - MAHARASHTRA CAMPA	RTGS INB: CRG4655060	TRANSFER TO 4599109044309 / MAHARASHTRA CAMPA	99922 10,00,000
82	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204594 - MAHARASHTRA CAMPA	RTGS INB: CRG4655035	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA	99922 10,00,000
83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045961 - MAHARASHTRA CAMPA	RTGS INB: CRG4655015	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
84	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820459614 - MAHARASHTRA CAMPA	RTGS INB: CRG4654983	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA	99922 10,00,000
85	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045957 - MAHARASHTRA CAMPA	RTGS INB: CRG4655174	TRANSFER TO 45991113044303 / MAHARASHTRA CAMPA	99922 10,00,000
86	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204598 - MAHARASHTRA CAMPA	RTGS INB: CRG4655156	TRANSFER TO 4599109044309 / MAHARASHTRA CAMPA	99922 10,00,000
87	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204599 - MAHARASHTRA CAMPA	RTGS INB: CRG4654984	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10,00,000
88	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082045960 - MAHARASHTRA CAMPA			8,70,86,734


 Executive Engineer
 M.S.E.I. Co. Ltd.
 E.H.V. Projects Da. Khan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.7

With reference to above, we the project authority, we have transferred/deposited to CAMPA fund only through e-portal (<https://parivesh.nic.in>)

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six
Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following
details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address:	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYAN Thane
Amount(in Rs)	87086734/-

Amount In Words :Eight Crore Seventy Lakh Eighty-Six
Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following
details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank,
ubin0903710@unionbankofindia.bank

Yogeshwar
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047991 - MAHARASHTRA CAMPA	RTGS INB: CRG4654243	TRANSFER TO 99827044308 / MAHARASHTRA CAMPA
67	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047992 - MAHARASHTRA CAMPA	RTGS INB: CRG4654310	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
68	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047993 - MAHARASHTRA CAMPA	RTGS INB: CRG4654081	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
69	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047994 - MAHARASHTRA CAMPA	RTGS INB: CRG4653977	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA
70	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047995 - MAHARASHTRA CAMPA	RTGS INB: CRG4653982	TRANSFER TO 4599112044309 / MAHARASHTRA CAMPA
71	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047996 - MAHARASHTRA CAMPA	RTGS INB: CRG4653924	TRANSFER TO 4599112044305 / MAHARASHTRA CAMPA
72	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047997 - MAHARASHTRA CAMPA	RTGS INB: CRG4653724	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA
73	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047998 - MAHARASHTRA CAMPA	RTGS INB: CRG4653708	TRANSFER TO 4599113044303 / MAHARASHTRA CAMPA
74	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082047999 - MAHARASHTRA CAMPA	RTGS INB: CRG4653439	TRANSFER TO 4599110044305 / MAHARASHTRA CAMPA
75	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082048000 - MAHARASHTRA CAMPA	RTGS INB: CRG4653276	TRANSFER TO 4599110044305 / MAHARASHTRA CAMPA
76	20-08-2024	20-08-2024	TO TRANSFER-INB NEFT UTR NO: SBINR12024082048006 - MAHARASHTRA CAMPA	NEFT INB: CHADDYTURL	TRANSFER TO 4697153044301 / MAHARASHTRA CAMPA
77	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804590 - MAHARASHTRA CAMPA	RTGS INB: CRG4655233	TRANSFER TO 4599108044309 / MAHARASHTRA CAMPA
78	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804591 - MAHARASHTRA CAMPA	RTGS INB: CRG4655920	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
79	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804592 - MAHARASHTRA CAMPA	RTGS INB: CRG4655532	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA
80	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804608 - MAHARASHTRA CAMPA	RTGS INB: CRG4655508	TRANSFER TO 4599111044304 / MAHARASHTRA CAMPA
81	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804593 - MAHARASHTRA CAMPA	RTGS INB: CRG4655181	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA
82	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804594 - MAHARASHTRA CAMPA	RTGS INB: CRG4655060	TRANSFER TO 4599108044309 / MAHARASHTRA CAMPA
83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804595 - MAHARASHTRA CAMPA	RTGS INB: CRG4655035	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
84	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804596 - MAHARASHTRA CAMPA	RTGS INB: CRG4655015	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA
85	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804597 - MAHARASHTRA CAMPA	RTGS INB: CRG4654983	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
86	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804598 - MAHARASHTRA CAMPA	RTGS INB: CRG4655174	TRANSFER TO 4599111044303 / MAHARASHTRA CAMPA
87	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804599 - MAHARASHTRA CAMPA	RTGS INB: CRG4655156	TRANSFER TO 4599108044309 / MAHARASHTRA CAMPA
88	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204804600 - MAHARASHTRA CAMPA	RTGS INB: CRG4654884	TRANSFER TO 4599110044305 / MAHARASHTRA CAMPA
					\$,70,86,734

*Recd and
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kathan*

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.8

With reference to above, we the project authority, do hereby undertake that, the For felling of mangroves, the state government/user agency shall ensure to obtain prior permission from the Hon'ble High Court.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024..

Condition No.9

With reference to above, we the project authority, do hereby undertake that, the Felling of trees, especially mangroves trees shall be done wherever necessary and by restricting felling at the tower places and service paths. Felling of mangroves shall be restricted wherever necessary and felling shall be under guidance of the competent authority of the Mangrove Cell of the Maharashtra State Forest Department.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.10

With reference to above, we the project authority, do hereby undertake that, the Proper Wildlife Conservation Plan (with particular emphasis to avifauna and mangrove ecosystem) is needed to be prepared in consultation with the mangrove cell and such plan shall be duly approved by the competent authority. The User Agency shall implement such Wildlife Mitigation plan to minimize the impact due to the project and for conservation of the local ecosystem.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan.

CERTIFICATE

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C BoisarDahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.10

With reference to above, we the project authority has User agency has deposited total Rs.8,70,86,734/-in Maharashtra CAMPA A/C no. 1507864116830152 Union bank of India IFSC Code –UBIN0996335 Bengaluru through RTGS vide UTR No. list **attached separately(Page No.)**. Dated 20.08.2024. Which included Rs.75,00,000/- Towards the cost of wild life conservation plan (with particular emphasis to avifauna and mangrove ecosystem. **Annexure –X**

(Yogesh Pachpande)
(YogeshPachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
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- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank,
ubin0903710@unionbankofindia.bank

Yogeshwar
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dr. Kalyan



वन विभाग



प्रधान मुख्य वनसंरक्षक (वनबल प्रमुख) महाराष्ट्र राज्य, यांचे कार्यालय



O/o Principal Chief Conservator of Forests (HoFF), Maharashtra State

Phone No.- 0712-2560953

मुख्य प्रधान वनसंरक्षक (वन्यजीव) महाराष्ट्र राज्य,

E-mail - pccfwl@mahaforest.gov.in Principal Chief Conservator of Forest (Wildlife) Maharashtra State.
Website – www.mahaforest.gov.in “Van Bhavan”, 3rd Floor, Ramgiri Road, Civil Lines, Nagpur – 440 001.

पत्र-ई मेल क्रमांक :-कक्ष-२३(२)/वजी/सर्वे/प्र.क्र.८२/१९६०/२०२४-२५ दिनांक १५ /०७/२०२४

प्रति,

अपर प्रधान मुख्य वनसंरक्षक (वन्यजीव)

पश्चिम, मुंबई.

विषय :- Diversion of 20.5983 ha. Forest land in favour of MSETCL, Kalyan for laying of 132 KV LILO D/C Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar substation passing through Palghar District in the State of Maharashtra.

संदर्भ :- १. पर्यावरण, वने व जलवायु परिवर्तन मंत्रालय, भारत सरकार, प्रादेशिक कार्यालय, नागपूर यांचेकडील पत्र क्र. FC-II/MH-२२५/२०२३-NGP/१२३५२, दिनांक २०/१०/२०२३.
२. आपलेकडील पत्र क्र. कक्ष-३/जपीन/FCA/प्र.क्र.१८७,१९७/२५४/२०२४-२५, दि. १०/०७/२०२४.

प्रस्तुत विषयांकित प्रकरणी केंद्र शासनाकडील संदर्भ पत्र-१ अन्वये वन (संरक्षण) कायदा, १९८० च्या कलम-२ अंतर्गत केंद्र सरकारची पूर्व संमती मिळवण्यासाठी खालीलप्रमाणे २ अटी घालून दिलेल्या आहेत.

- ii) The DCF has indicated in part II that “Due to high rainfall the area is prone to erosion”. So a Soil Conservation Plan needs to be prepared by competent authority.
- iii) The DCF has suggested that the importance of birds in his report. The wildlife conservation plan (with particular emphasis to avifauna and mangrove ecosystem) is needed to be submitted, duly approved by competent authority.

वरील अट क्र. ii चे अनुषंगाने, उपरोक्त संदर्भिय पत्र-२ अन्वये मृद संवर्धन आराखडा (Soil Conservation Plan) या कार्यालयाचे मान्यतेसाठी सादर केलेला आहे. सदरील मृद संवर्धन आराखड्यातील ठळक बाबी पुढीलप्रमाणे आहे.

प्रकल्प यंत्रणेने १० वर्षाकरीता एकूण रु. ७५.०० लक्ष आर्थिक तरतुद आराखड्यामध्ये केलेली आहे. बाबनिहाय तपशिल खालीलप्रमाणे आहे.

Total Cost of Financial Outlay for Soil Conservation Plan

Sr. No.	Soil Conservation Activities	Amount (in rs.'Lakhs)
1.	Habitat Improvement & mitigative measures (Food, Water, Shelter, Movement etc) and measures to reduce/ minimize the human-animal conflicts.	37.50
2.	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation)	7.50
3.	Method of Executing the work (Unworkable areas, Plantable areas, Dense Mangrove)	7.50
4.	Nursery Techniques, Planting Technique.	7.50
5.	Administrative Cost for processing inspections etc. (To be deposited in RPACS)	7.50
6.	Miscellaneous including Eco-development.	7.50
Total cost		75.00

तरी, केन्द्र शासनाने घालून दिलेल्या अट क्र. ii चे अनुषंगाने वरील रु. ७५.०० लक्ष रक्कम असलेला मृद संवर्धन आराखडा वन्यजीव व्यवस्थापनाच्या दृष्टीने पोषक स्वरूपाचा असल्यामुळे, त्यांस मान्यता प्रदान करण्यात येत आहे.

तसेच वरील अट क्र. iii चे अनुषंगाने संदर्भिय पत्र-२ अन्वये वन्यजीव संवर्धन आराखडा (Wildlife Conservation Plan) या कार्यालयाचे मान्यतेसाठी सादर केलेला आहे. सदरील वन्यजीव संवर्धन आराखड्यातील ठळक बाबी पुढीलप्रमाणे आहे.

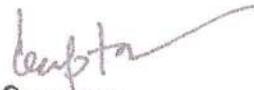
प्रकल्प यंत्रणेने १० वर्षांकरीता एकुण रु. ७५.०० लक्ष आर्थिक तरतुद आराखड्यामध्ये केलेली आहे. बाबनिहाय तपशिल खालीलप्रमाणे आहे.

The Financial Outlay of the Wildlife Conservation Plan for Activities

Sr.No.	Conservation Activities	Total Outlay of Wildlife Conservation Plan 1% of Project Cost	Amount of Percentage (in Rs. Lakhs)
1.	Habitat improvement & mitigation measures (Food, Water, Shelter, Movement etc.) and measures to reduce/minimize the human-animal conflicts.	50%	37.50
2.	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation)	10%	7.50
3.	Support to Forest Department for monitoring, rescue & rehabilitation of Wildlife (Veterinary care, animal health, rescue, tools and equipments etc.)	10%	7.50

4.	Contribution towards conservation of Wildlife in PA's	10%	7.50
5.	Administrative Cost for processing inspections etc.	10%	7.50
6.	Miscellaneous including Eco- development.	10%	7.50
Total		100%	75.00

तरी, केन्द्र शासनाने घालून दिलेल्या अट क्र. iii चे अनुंगाने वरील रु. ७५.०० लक्ष रक्कम असलेला वन्यजीव संवर्धन आराखडा वन्यजीव व्यवस्थापनाच्या हष्टीने पोषक स्वरूपाचा असल्यामुळे, त्यांस मान्यता प्रदान करण्यात येत आहे.

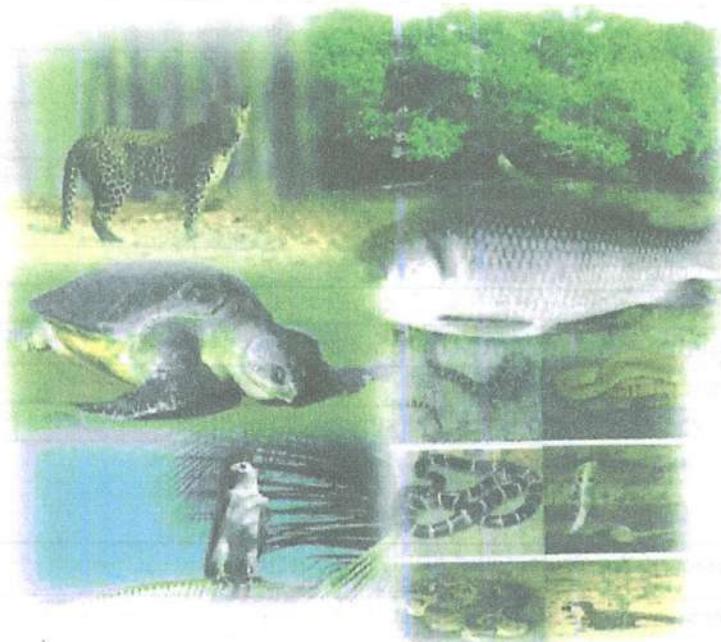


(महिप गुन्ता)
प्रधान मुख्य वनसंरक्षक (वन्यजीव),
महाराष्ट्र राज्य

प्रतिलिपी : मुख्य वनसंरक्षक (प्रा.), ठाणे यांना माहितीस व आवश्यक कार्यवाहीस अग्रेषित.

प्रतिलिपी : कार्यकारी अभियंता, अति उच्च दाब प्रकल्प विभाग, कल्याण यांना माहितीस व आवश्यक कार्यवाहीस अग्रेषित.

WILDLIFE CONSERVATION PLAN



Project Name : DIVERSION OF 20.5983 HA. FOREST LAND FOR CONSTRUCTION & LAYING OF 132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT.

User Agency : Executive Engineer
EHV Project Division, Kalyan

Geopoint
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

THE WILDLIFE CONSERVATION PLAN
 (With particular emphasis to avifauna and mangrove ecosystem)
Annexure - 1

1	Name of Project Proponent	: Construction & laying of 132 KV LILO D/C transmission line on 132 KV D/C Boisar - Dahanu (MIDC) transmission line.
2	Name of Project	: Construction & laying of 132 KV LILO D/C transmission line on 132 KV D/C Boisar - Dahanu (MIDC) transmission line
3	Activities to be undertaken in project (in brief)	: Comprise the rivers and some of perennial streams. The modified habitats in the Study Area comprise habitations, forest, Mangroves, agricultural land, bunds, culverts and roads. The land-use in the Study Area is dominated by human settlements. User Agency in consultation with the State Forest Department shall prepare a site specific wildlife conservation plan for 10 years with special emphasis on conservation and habitat improvement of the avifauna. The forests i.e. the Wildlife Habitats comprise of Moist Deciduous Forests which are susceptible to Fires from December to May. Protection of Habitats from Fires is an important activity in which contribution by way of gadgets like Fire Blowers and support for Firefighting Squads can make a positive contribution in protecting Wildlife and its Habitat.
4	Cost of Project	: Rs. 7117.58 Lakhs
5	Location of project (district, tehsil, revenue village etc. with geo-coordinates	: Palghar
6	Area of project (in ha) & 10 km buffer area (in ha)	: 20.5983 Ha

Chapter - 1

Introduction

1.1 General :

The construction & laying of 132kv D/C transmission line from villages of Palghar district. The proposal under the Forest Conservation Act 1980 is being submitted for the approval of the Central Government for the diversion of 20.5983 Ha Forest land in villages Popharan, Unbhat, Uchhali, Pathravali, Tembhi, Pam, Kumbhavali, Agyan, Dapoli, Morekuran, Palghar, District- Palghar. Total 20.5983 Ha forest land involves the construction & laying of 132kv D/C LILO on 132KV D/C Boisar-Dahanu(MIDC) Tr transmission line for the proposed 220kv Palghar SS. The work involves the construction of the transmission line for LILO on the existing 132KV D/C Boisar – Dahanu(MIDC) Tr. Line for the proposed 220KV Palghar substation by establishing 132KV level at Palghar, 132KV at Dahanu, 132KV at Boisar, and 132KV at Palghar substation. This will have the 2nd strong and reliable source.

Presently, 220KV Boisar II is feeding 132KV Boisar I (MIDC) and 132KV Palghar stn. The 132KV Dahanu S/stn is fed from 132KV Boisar (MIDC) & extended up to 132KV TSS-Gholwad stn. Further, 132KV Dahanu S/stn will feed proposed MMRDA S/stn (Suryanagar & Kavdas) for water supply and proposed 132KV Jawhar Slstn. The 132KV Palghar Sstn is currently feeding 132KV Tss Palghar S/stn. From above, it is seen load demand increases in Palghar, Dahanu, and Boisar region.

The said LILO arrangement will strengthen the complex network in Palghar areas, and there will be improved reliability of the system. Further, in the present scenario, there is heavy load shedding due to a lack of power supply, hence for avoiding the load shedding of power, Maharashtra State Electricity Transmission Company Limited has sanctioned plans to construct & lay 132kv D/C LILO on 132KV Boisar-Dahanu transmission line for proposed 220kv Palghar SS. This transmission line belt is very essential to construct and operate 132kv D/C LILO on 132KV Boisar-Dahanu transmission line for proposed 220kv Palghar SS for zero load shedding to be implemented w.e.f. 2021 and for the industrial growth of Palghar District for future upcoming Maharashtra government projects.

The human population in the tract exhibit great contrast, the population in and around the industrialised townships like Dahanu, Palghar, Boisar and Tarapur consists mainly of industrial workers, business men and horticulturists who have their farms of Chickoo, Cocoanut, Papaya, Banana and flowers. Tarapur Atomic Power Station is situated just 20 km from Dahanu. Business men who have their farms depend on the forest for the requirement of firewood and small timber most of which are supplied to them through headloads brought by villagers from adjoining forests. Sporadically growing number of brick kilns, quarries, and saw mills all of which attract illicit wood from nearby forests meet the increasing demands of bricks, stones and timber required for the construction of the domestic and industrial houses for these people. The Total population of the coastal tract extending from Bordi to Dahisar consists of fishermen who require bark of ain for colouring their nets, poles and fencing material for the mast and repair of their boats and construction of dwelling huts. The entire population depends on the forest for supply of firewood.

The local communities living in the forest tract are mainly Adivasis like Thakur, Katkaries, and Warlis etc. Agriculture is the main profession of the people in the tract. They practice mostly primitive type of agriculture. Paddy, nagli and warai are the main crops. Paddy grows in the low lying areas and nagli and warai are the crops grown in the hilly tract. A common practice followed by Agriculturist in the tract is rab burning. These people own large herds of cattle. They depend solely on forests for grazing. For burning the rab the tribals and local people collect the fallen dead leaves from the the forest. They also cut 'Tahal' from certain trees of the reserve forests where ever the opportunity is available. They also need a lot of timber, which is quite often brought by illicit cutting, for construction of their houses. Their requirement of poles and fencing material like Karvi and Bamboo is also very great and is more often met by hacking of plantations and lopping of trees. They also require timber for preparing cow sheds and agricultural implements. The need of firewood in the developing areas is so great that most of the tribal women collect firewood on head loads and sell these by traveling about 10 to 15 km. on an average.

The vesicles are filled with various minerals such as quartz, amethyst, calcite, agate, zeolite, and jasper.

Pleistocene-Recent: - Laterite is compact and vesicular rock essentially composed of hydrated oxides of aluminium and iron with small amount of oxides of manganese and titanium. Generally it is reddish brown in colour. It is found at many places particularly on crest of hills where it forms cappings over the Deccan trap.

c) Soil :

Sub-Recent-Recent: - The typical soil derived from the Deccan-trap is the "Regur" or black cotton soil. The black soil contains high alumina and carbonates of calcium and magnesium with variable amount of potash, low nitrogen and phosphorous. The soil is generally porous and swells considerably on addition of water and dries up with cracks on losing moisture. The "Black Cotton Soil" is usually found in the flat area, which have almost pure crop of Ain. In the hilly areas the soil is loamy and varies greatly in colour, depth and texture. On the upper slopes it is generally light in colour, shallow and murrumy brown, fairly deep and only at some places it is rich in humus. The difference in the soil on the lower and upper slopes is reflected in the quality and composition of the crop found on these slopes. On the upper slopes the crop is of poorer quality and consists of more xerophytic and inferior species like Kandol, Pangara, Kakad, Shemad, Tiwas etc.

d) River/Water supply :

The various rivers which flow through the tract provide water to the villages situated nearby. However, many of the rivers particularly the small ones dry up during the hot season especially in April and May. The same thing happens in case of springs, nallas and ponds in which a large number of villages depend for their supply of water. The district Local Board and later on the Zilla Parishad have constructed a number of wells to supply water to the villages. But a large proportion of these wells do dry up in the hot season. Thus inspite of the heavy rainfall received during the monsoons, large tract of the division suffers from acute shortage of water during the hot season.

1.4 Flora and Fauna of the WCP

9	Babul	Vachellia Nilotica
10	Behada	Terminalia bellirica
11	Bhendi/Bhend	Thespesia populnea
12	Bibala	Pterocarpus Marsupium Roxb.
13	Bor	Ziziphus mauritiana
14	Chafa	Plumeria
15	Chikoo	Manilkara zapota
16	Chinch	Tamarindus indica
17	Dakhirava	Other
18	Dhaman	Grewia Titiaefolia (VAHL)
19	Galgughar	Other
20	Glisidia	Gliricidia sepium
21	Jambhul	Syzygium cumini
22	Kadu Neem/Neem/Nimbara	Azadirachta indica
23	Kakad	Garuga Pinnata
24	Kapshi	Trema orientale
25	Karanj	Millettia pinnata
26	Karvand	Carissa carandas
27	Khair	Acacia catechu (L.F.) WILD
28	Khajur (Sindhi)	Phoenix Dactylifera
29	Kharot	Other
30	Kirmira	Schleichera
31	Lajri	Capparis decidua
32	Lokhandi	Maytenus rothiana
33	Maad	Pterygota alata v. irregularis
34	Moha	Madhuca Indica GMEL
35	Naral	Cocos nucifera
36	Palas	Butea Monosperma (LAM)
37	Pangara	Erythrina variegata
38	Peru	Psidium guajava
39	Raan-aaval	Phyllanthus acidus
40	Ranjani	Memecylon umbellatum.
41	Saag	Tectona grandis L.F.
42	Saru	Casuarina equisetifolia
43	Savar	Bombax Ceiba L.
44	Shemat	Lannea coromandelica (MERRILL)
45	Shevga	Moringa oleifera
46	Shisav	Dalbergia sissoo
47	Sindh	Prosopis cineraria
48	Subabul	Leucaena leucocephala

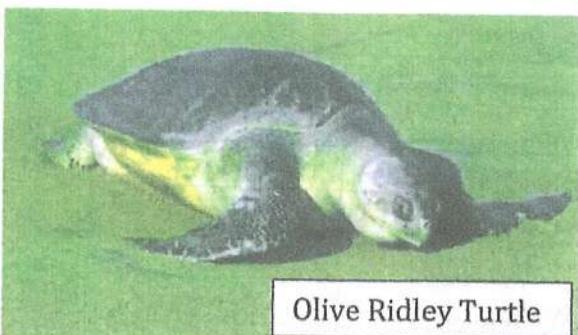
Fauna of the Area

A) MAMMALS

The wildlife population in Palghar district is dwindling in spite of having a relatively good forest. In the past the wildlife was abundant but the population has gone down due to increasing biotic pressure on their habitat. The forests areas are confined to compartments surrounded by cultivation lands on lower slopes. In addition, forests are shrinking from border due to rapid deforestation by encroachments and illicit cutting. Consequently, these forests are not rich in wildlife. Wildlife has been rendered shelter less. Wildlife in the search of shelter and food has started migrating and moving outside the forest areas. They are now more vulnerable to damage from greedy poachers.

SR.NO	NAME	SCIENTIFIC NAME	LOCAL NAME	DETAILS
1	Leopard	<i>Panthera pardus</i>	Bibalya Wagh	In 2001 Census, only one Leopard was reported in the Division but it has increased to six in numbers. The increase may be due to migration from other forest areas. Recent sighting of the animal was at Bavda village in Dahanu on July 2023
3	Wild Boar	<i>Sus scrofa</i>	Ran Dukkar	There are altogether 207 Wild Boar reported from all the Ranges of the Division. The maximum numbers of Wild Boar were reported from Boisar Range having 60 in numbers. In Udhwa only 4 Wild Boar have been reported. The reasons for presence of a large number of Wild Boars may be attributed to Agricultural fields in the adjoining areas.
4	Common Langur	<i>Presbytis entellus</i>	Langur	Langur is found in all the Ranges except Udhwa Range. The maximum number of Langur is found in Safale, Palghar and Kasa Ranges.
5	Barking Deer	<i>Muntiacus muntjak</i>	Bhekad	Barking Deer is found in all the Ranges except Boisar and Dahanu. Maximum numbers of Barking Deers are found in Manor, Bhatane, Dhisar and Safale Ranges. Barking Deers are found in the areas of the Division where the density of the Forest is relatively high
6	Blacknaped Hare	<i>Lepus nigricollis</i>	Sasa	Hare is the most abundant wild animal found distributed all over the Division. Maximum

7	Common Pochard	Aythya ferina	Lal Chari
8	Ferruginous Duck	Aythya nyroca	Nayansari
9	Pariah Kite	Milvus migrans	Ghar
10	Shikra	Accipiter badius	Shikra
11	Indian White-backed Vulture	Gyps bengalensis	Gidhad
12	Grey Jungle Fowl	Gallus sonneratti	Rakhi Ran Kombda
13	White-breasted Waterhen	Amaurornis phoenicurus Hydrophasianus chirurgus	Kukud Kombdi Panmor
14	Pheasant-tailed Jacana	Vanellus indicus	Lalmukhi Titvi
15	Common Greenshank	Tringa nebularia	Timbla
16	Blue Rock Pigeon	Columba livia	Parva
18	Indian Ring Dove	Streptopelia decaocto	Pitha Hola
19	Spotted Dove	Streptopelia chonensis	Thipkyा Kavada
20	Emerald Dove	Chalcophaps indica	Pachu Kavda
21	Rose-ringed Parakeet	Psittacula krameri	Popat
22	Blossom-headed Parakeet	Psittacula cyanocephala	Keera
23	Brain Fever Bird	Cuculus varius	Pavshaa
24	Indian Koel	Eudynamys scolopacea	Kokil
25	Crow Pheasant	Centropus sinensis	Bharadwaj
26	Spotted Owl	Athene brama	Pingla
27	Common Kingfisher	Alcedo atthis	Dhivar Khandya
28	White-breasted Kingfisher	Halcyon smyrnensis	Khandya
29	Crimson-breasted Barbet	Megalaima haemacephala	Juktuk
30	Yellow-fronted Pied Woodpecker	Picoides maharattensis	Kaudya Sutar
31	Common Myna	Acridotheres tristis	Shale
32	Bank Myna	Acridotheres ginginianus	Gnga Myna
33	Indian Tree Pie	Dendrocitta vagabunda	Takkachor
34	House Crow	Corvus splendens	Kaola
35	Jungle Crow	Corvus macrorhynchos	Dom Kaula
36	Common Wood Shrike	Tebhrodornis pondicerianus	Jangli
37	Gold-fronted Chloropsis	Chloropsis aurifrons	Hirva Bulbul
38	Gold-mantled Chloropsis	Chloropsis cochinchinensis	Harewa
39	Red-vented Bulbul	Pycnonotus cafer	Lalabudya Bulbul
40	Yellow-eyed Babbler	Chrysomma sinense	Pivlya
41	Paddyfield Pipit	Anthus novaeseelandiae	Bhartriya Pipit
42	House Sparrow	Passer domesticus	Chimni



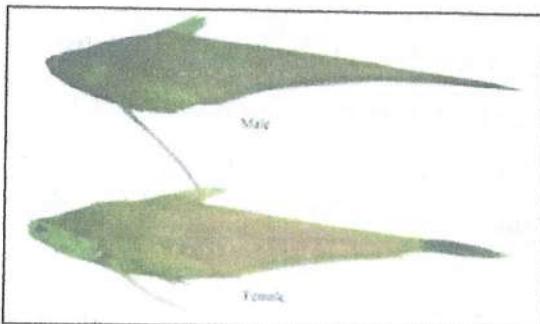
Olive Ridley Turtle



D) FISH

1. Fresh water fish

SR.NO	COMMON NAME	SCIENTIFIC NAME	LOCAL NAME
1	Stinging Cat Fish	<i>Seccobranchus</i>	Nal Singali



1.7 Forests Types of the Area - The area is formed of following types of forests as per Seth and Champion "Classification of Forests".

The forests can be grouped under the following types as per the "Revised Classification of Indian Forest Types" by Champion and Seth:-

- i) 3B/C1 – Tropical Southern moist teak bearing forests.
- ii) 3B/C2 – Tropical Southern moist mixed deciduous forests.
- iii) 8A/C2- Western sub-tropical hill forests.
- iv) 4B/TS1 Mangrove scrub forests.

3B/C1-Tropical Southern Moist Teak Bearing Forests: Major part of the forests comprises of this type. Within this main type, considerable local variations in composition and quality of crop are observed. These variations are due to the edaphic factor in some cases but in the majority of them, other factors like topography, biotic influences, and past treatment are responsible for such variations. The following four main associations can be distinguished in this main type viz.

3B/C2-Southern Tropical Moist Mixed Deciduous Forest:

Some part of Reserve Forest as well as woodland protected forest comprises of this type in which teak and ain form the principal species. Site quality of teak forest is mainly IVa. Density varies from 0.3 to 0.5. Its occurrence is more marked in damp valleys.

8A/C2-The Western Sub-Tropical Hill Forests: This type is found on the higher slopes of the Western Ghats on the Gambhirgad hills in Udhava. It occurs as a narrow strip between 500 to 1100 meters altitude. Locally the rainfall is higher than the

However permanent threats of any Transmission project are

1. Fire and 2. Electrocution 3.Bird deaths by electric current

For that necessary mitigation measures have been suggested.

1. Fire: Mitigation measures for fire include:

a) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

b) Fire retardant coating on the cables. This will help to reduce the risk of fire.

c) Fire retardant coating on the insulators. This will help to reduce the risk of fire.

d) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

e) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

f) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

2. Electrocution: Mitigation measures for electrocution include:

a) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

b) Fire retardant coating on the cables. This will help to reduce the risk of fire.

c) Fire retardant coating on the insulators. This will help to reduce the risk of fire.

d) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

e) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

f) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

3. Bird deaths by electric current: Mitigation measures for bird deaths by electric current include:

a) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

b) Fire retardant coating on the cables. This will help to reduce the risk of fire.

c) Fire retardant coating on the insulators. This will help to reduce the risk of fire.

d) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

e) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

f) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

g) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

h) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

i) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

j) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

k) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

l) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

m) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

n) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

o) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

p) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

q) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

r) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

s) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

t) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

u) Fire retardant coating on the poles and towers. This will help to reduce the risk of fire.

v) Fire retardant coating on the conductors. This will help to reduce the risk of fire.

w) Fire retardant coating on the ground wires. This will help to reduce the risk of fire.

- h. Impact on displacement / movement of fauna territorial, aquatic or aerial (such as creation of barriers etc.) - No permanent displacement /movement of territorial fauna is expected. No aquatic fauna exists. For avifauna mitigation as well as conservation measures are prescribed.
- i. Any other direct or indirect impacts on the flora and fauna of WCP area. - Not noticed during the studies.
- j. Study techniques adopted and observations of the experts in the field giving details of visits, areas visited, observations, records referred to, sampling method adopted and justification in extrapolation.

2.2 Overview of the Study Area

Comprise the rivers and some of perennial streams. The modified habitats in the Study Area comprise habitations, forest, Mangroves, agricultural land, bunds, culverts and roads. The land-use in the Study Area is dominated by human settlements.

2.3 Methodology

The study of the area was carried out in two stages -

- 1) Direct observation by several seasonal field visits
- 2) By referring Management plan of Dahanu forest division.

Chapter - 4

Interventions and Mitigations

4.1 Proposed management strategies within the Project Site (Core Area) to be implemented by the project proponent and include following points -

Interventions to be implemented by the project authorities inside the project area (core area) with suitable justifications. -to mitigate and minimize adverse impacts as indicated in chapter 2.

- 1) The forests i.e. the Wildlife Habitats comprise of Moist Deciduous Forests which are susceptible to Fires from December to May. Protection of Habitats from Fires is an important activity in which contribution by way of gadgets like Fire Blowers and support for Firefighting Squads can make a positive contribution in protecting Wildlife and its Habitat.
- 2) The other part of the project falls under Mangrove scrubs forest which is susceptible to Habitat loss of marine fauna (Birds and animals) during the implementation of the work. Protection of the mangroves habitats is an important activity in which contribution by way of planting more mangroves in degraded or affected land parcels, improving the habitats for fauna by using some artificial nests and micro habitats.
- 3) Presence of the transmission line may cause electrocution hence necessary mitigation measures as suggested by the department will be wholly implemented.
- 4) Wildlife Habitats are under excessive pressure from the human settlements for meeting the basic requirements of fuel wood, grazing by domestic animals, and forest produce removal of economic sustenance. The preliminary issues of water and road need to be addressed.

6. Annual surveying for new populations of invasive species caused by construction disturbances should be carried out. Weeds or invasive species should be removed from the cleared area annually before their flowering and fruiting. If unchecked, Invasive species will likely spread and impact natural habitat. Each exotic or invasive species requires its own protocol for control or elimination. Expert should be consulted to determine the best methods for control of encountered invasive species.
7. Insulation to cross arms must be insured to prevent electrocution.
8. Polymer insulation should be used on ground wires, cross areas and Jumper wires.
9. Suitable Guard Spikes at the height of 4-7 feet to ward off animals from coming near poles.
10. Power lines must be marked to make more visible to Birds and help prevent contact with them.
11. Sufficient separation must be kept between phases and grounded hardware.
12. Insulated cables must be used wherever separation between the energized phase conduction are not possible.
13. Switches should be designed such that perching by birds on switch gear should be prevented.
14. Insulated perch should be provided wherever possible. In order to make the perches effective, it is advisable to so construct the tower or install means which will make it difficult or impossible for the bird to alight on other portions of the tower other than the insulated perch

Chapter - 5

Financial Outlay for Wildlife Conservation Plan

5.1 General

The Mangrove forests defied very important role in wildlife conservation of sea shore area. Mangrove forests provide goods and services that are of economic, ecological and environmental values to the people. Environmentally, mangroves offer coastal protection against erosion, storm damage, prevent siltation of adjacent seagrass beds and control floods (FAO 1994).

This study provides a considerable updated knowledge which will help in exploring links for future research among soil properties, vegetation, species composition and structure of mangrove forests.

5.2 Total Cost of the Project: 75.00 Lakh

FINANCIAL FORECAST

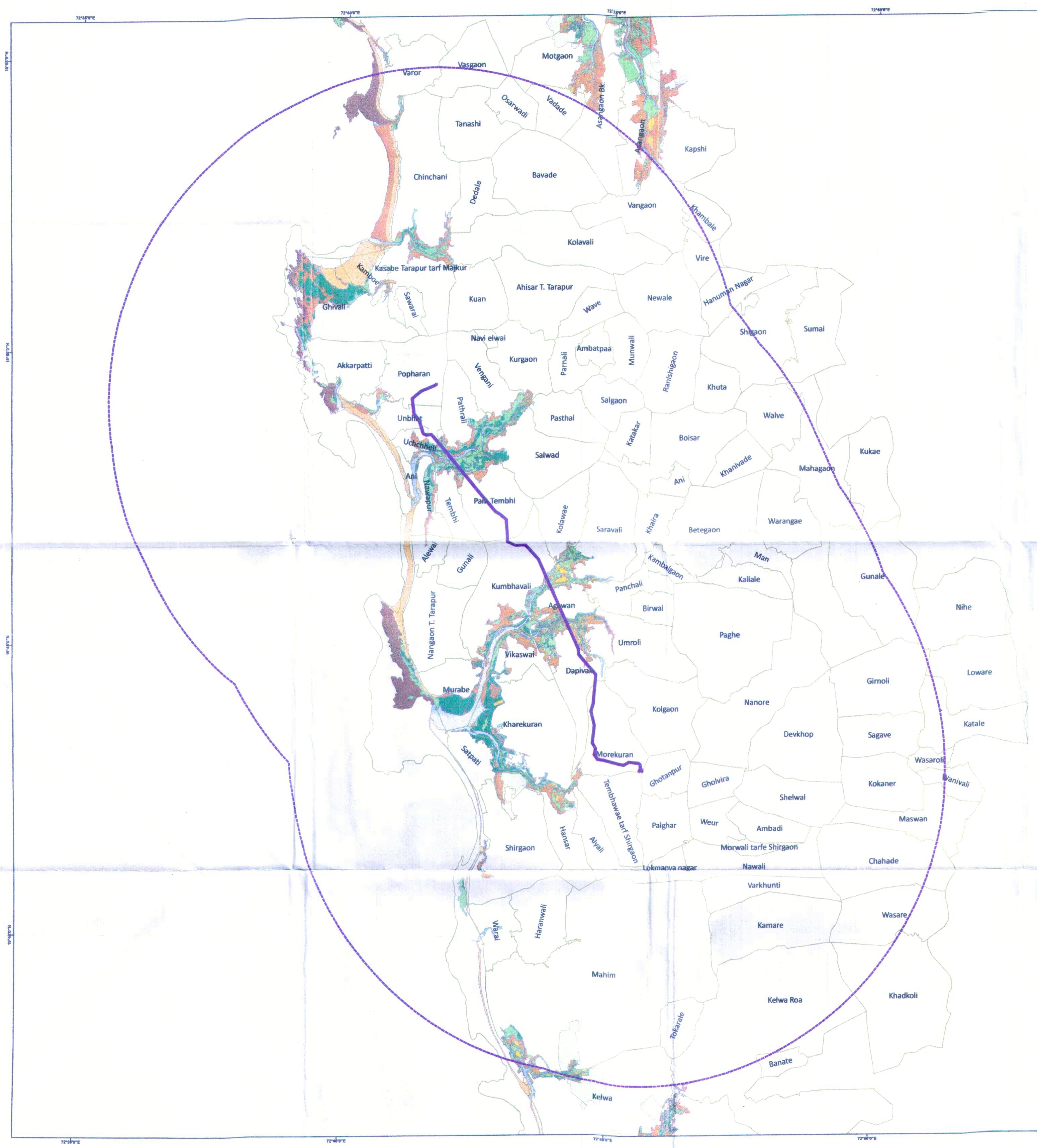
Sr.No	Item	Total Outlay of wildlife conservation plan 1% of Project Cost	Amount of Percentage (In lakhs)
1	Habitat improvement & mitigation measures (Food, Water, Shelter, Movement etc.) and measures to reduce minimize the human-animal conflicts :- This may includes 1. Awareness works/ site Specific Boards 2. Artificial Nests 3. SMC works (dry rubble check dams/ culvert 4. Bird reflectors 5. Removal of invasive alien species in the PF and ESZ areas and Plantation of Native plant species 6. Water holes creation 7. Salt licks	50	37.5
2	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation) 1. Information board in the forest area of nearly area	10	7.5

The schedule of activity is proposed in 10 year period

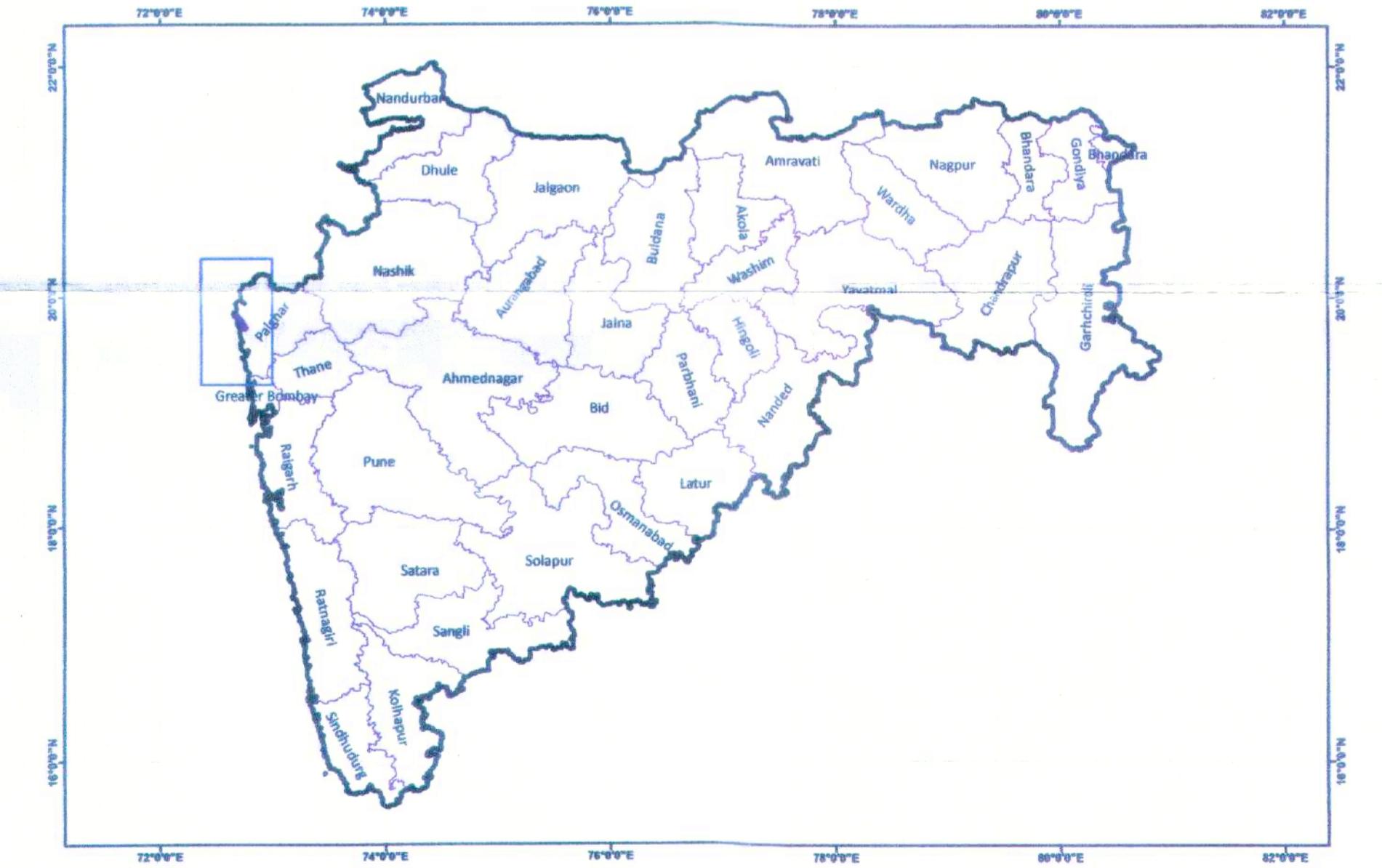
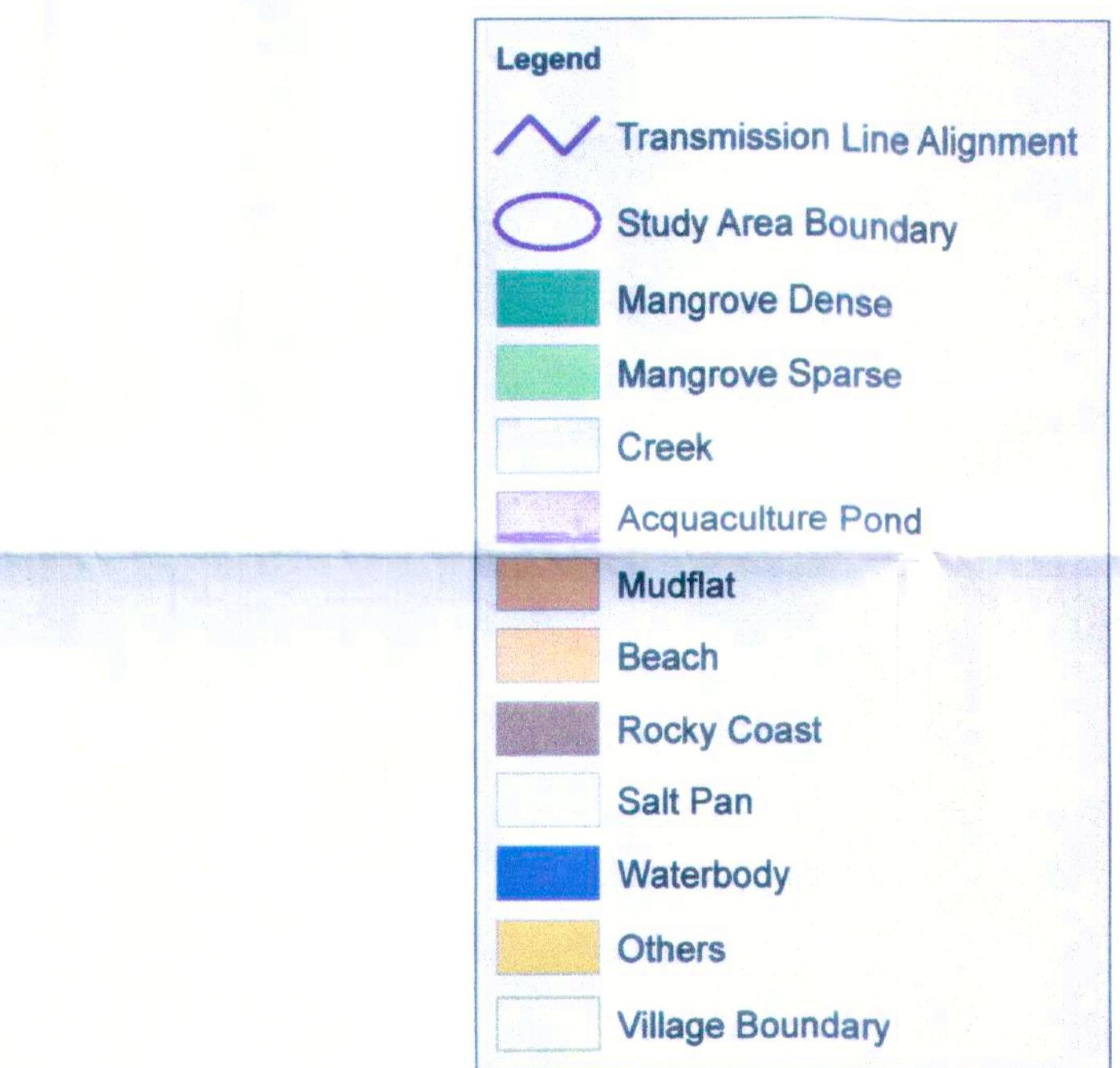
Sr.No.	Name of the activity	Year wise Financial Targets									
		1 st Year	2 nd Year	3 rd Year	4 th Year	5 th Year	6 th Year	7 th Year	8 th Year	9 th Year	10 th Year
1	Habitat improvement & mitigation measures (Food, Water, Shelter, Movement etc.) and measures to reduce minimize the human-animal conflicts:- This may includes	*	*	*	*	*	*	*	*	*	*
2	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation)	*	*	*	*	*	*	*	*	*	*
3	Support to Forest Department for monitoring, rescue & rehabilitation of wildlife (Veterinary care, animal health, rescue, tools and equipment's etc.)	*	*	*	*	*	*	*	*	*	*
4	Contribution towards conservation of wildlife in PAs (to be deposited in RPACS)		*	*	*	*	*	*	*	*	*
5	Administrative Cost for processing inspections etc. (To be deposited in RPACS)			*	*	*	*	*	*	*	*
6	Miscellaneous including Eco-development.				*	*	*	*	*	*	*

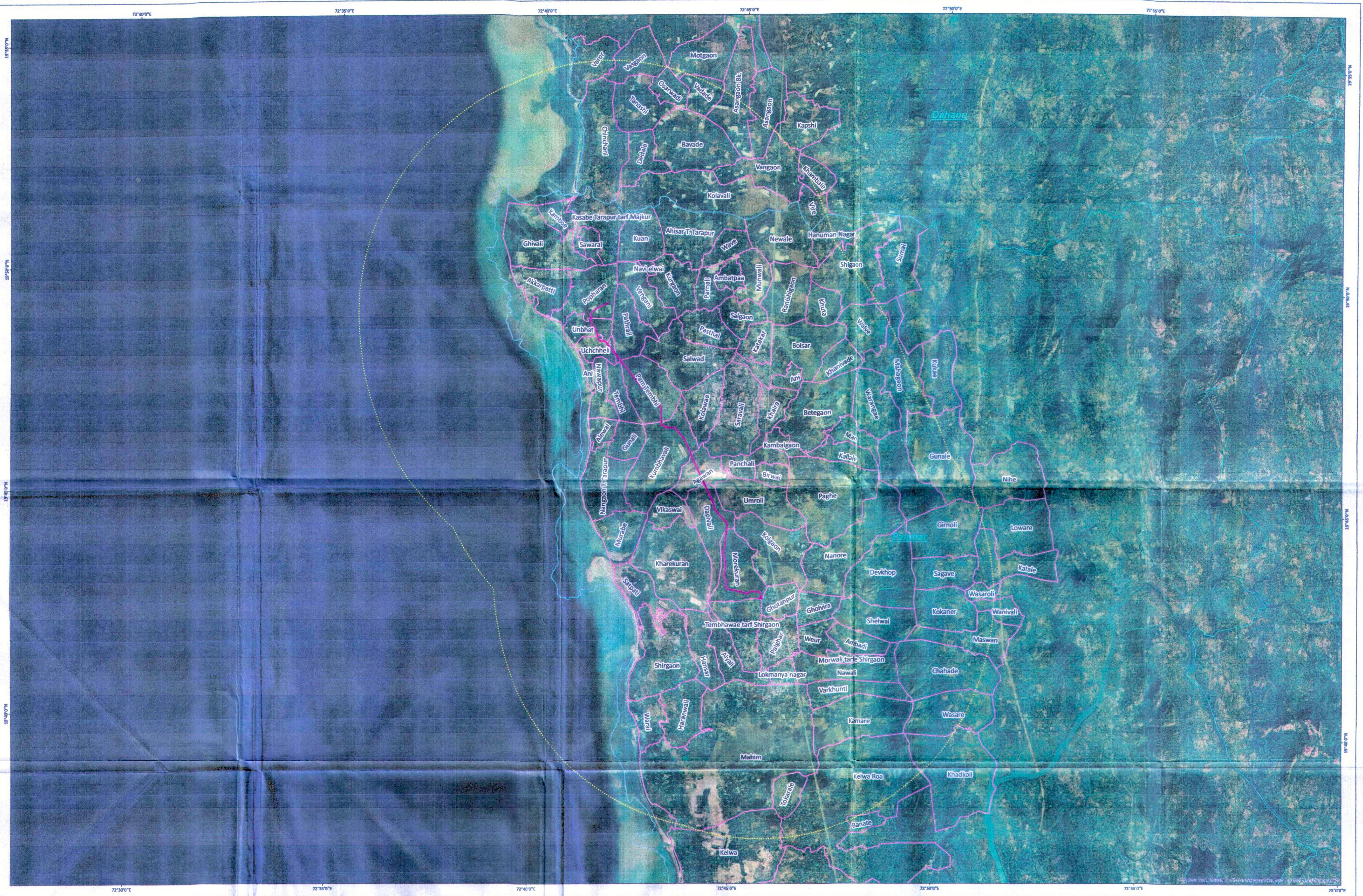
THE PROPOSED BUDGET FOR INTERVENTION FOR DFO AS PER ACTIVITY

Sr.No.	Name of the activity	Year wise Financial Targets (Rs. In Lac.)										TOTAL 13
		1st Year 2	2nd Year 3	3rd Year 4	4th Year 5	5th Year 6	6th Year 7	7th Year 8	8th Year 9	9th Year 10	10th Year 11	
MANAGEMENT OF FOOD												
1	Habitat enrichment with plantation of mangrove/ fruit bearing species / fuel & fodder plantation	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	15.00
	Total	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	15.00
MANAGEMENT OF WATER												
2	Desilting, Renovation & Maintenance of water holes and old ponds	1.50	1.50	1.50	1.00	0.50	0.50	0.50	0.50	0.50	0.25	8.75
3	Construction of 3 pond within the study area and maintenance from 2nd year	1.50	1.50	1.00	0.50	0.50	0.50	0.50	0.50	0.50	0.25	7.00
4	Soil & moisture conservation measures	1.00	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.25	0.25	6.75
	Total	4.00	4.00	3.5	3	2.5	1.50	1.50	1	0.75	0.75	22.50
MANAGEMENT OF SHELTER												
5	Fire Protection											
6	(a) Fire line cutting & Controlled burning along forest area	0.50	0.50	0.50	0.50	0.5	0.25	0.25	0.25	0.25	0.25	3.75
7	(b) Fire protection through VFPC.	0.50	0.50	0.50	0.50	0.5	0.25	0.25	0.25	0.25	0.25	3.75
	Total	1.00	1.00	1.00	1.00	1.00	0.50	0.50	0.50	0.50	0.50	7.50
ECO DEVELOPMENT												
8	Eco- development work in different villages (Signages, Information Board, Workshop etc)	0.50	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	3.25
9	Veterinary health care camp including vaccination	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	2.25
10	Human health care camp	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	0	0	2.00
	Total	1.00	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.50	0.25	7.50



**MAP INDICATING MANGROVE DISTRIBUTION WITHIN THE 10 KM RADIUS OF STUDY AREA FOR DIVERSION OF 20.5983 HA.
FOREST LAND FOR CONSTRUCTION & LAYING OF 132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT**





THE DIGITAL IMAGERY OF GOOGLE ILLUSTRATE LANDCOVER AND LANDUSE ACTIVITIES WITHIN 10 KM RADIUS OF STUDY AREA FOR DIVERSION OF 20.5983 HA. FOREST LAND FOR CONSTRUCTION & LAYING OF 132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT



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16 Kms
SCALE 1:72000

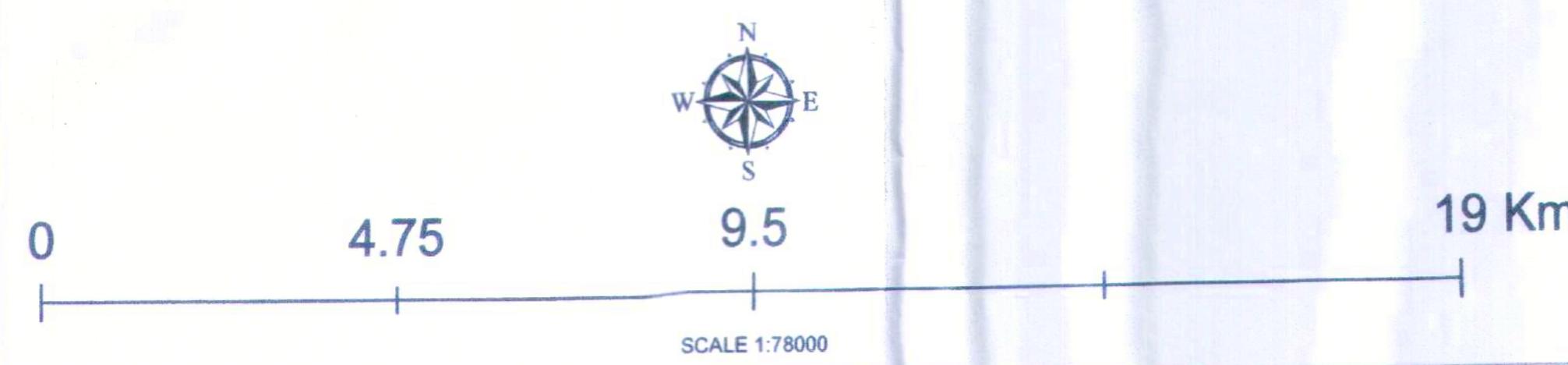
Legend	
Study Area Boundary	Village Boundary
Transmission Line Alignment	Tehsil Boundary

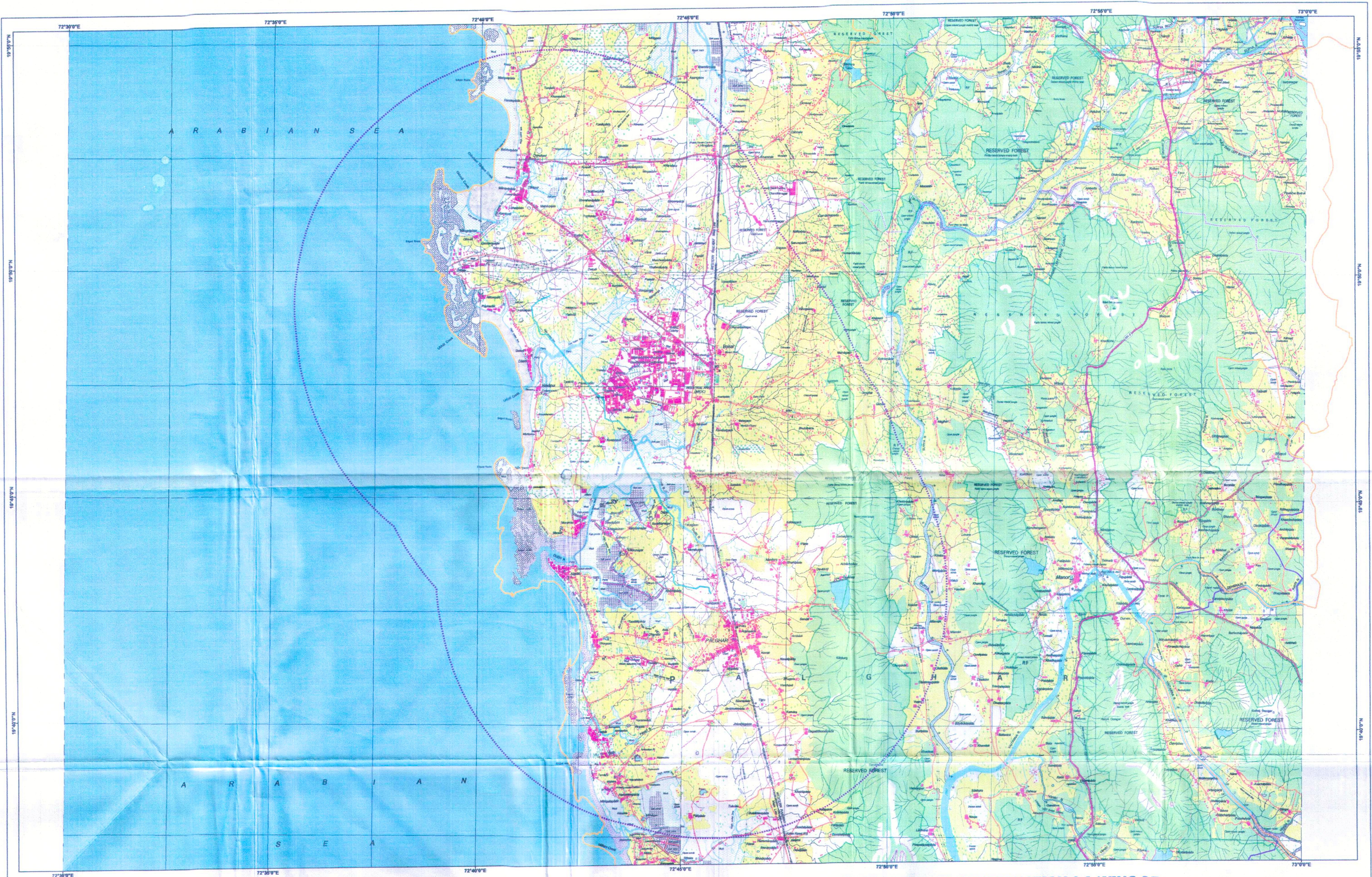


**MAP INDICATING VILLAGES WITHIN 10 KM RADIUS OF STUDY AREA FOR DIVERSION OF 20.5983 HA. FOREST LAND FOR CONSTRUCTION & LAYING OF
132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT**

Yuvapriya
Executive Engineers
M.S.E.T. Co. Ltd.
E.H.V. Projects Da. Kalyan

Legend			
	Study Area		Village Boundary
	Project Alignment		Taluka Boundary





1:50000 SOI TOPOSHEET INDICATING 10 KM RADIUS OF STUDY AREA FOR DIVERSION OF 20.5983 HA. FOREST LAND FOR CONSTRUCTION & LAYING OF 132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT



0 4 8 16 Kms

Legend

- (Purple dotted line) Study Area Boundary
- (Blue line with arrows) Transmission Line
- (Orange line) Division Boundary

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLLIO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.11

With reference to above, we the project authority, do hereby undertake that, the Proper Soil Conservation Plan needs to be implemented at the cost of the User Agency to arrest soil erosion.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANTHANE
Amount(in Rs)	87086734/-

Amount In Words :Eight Crore Seventy Lakh Eighty-Six
Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following
details;

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

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- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank,
ubin0903710@unionbankofindia.bank

*Yogendra
Executive Engineer
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan*

66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204-02991- MAHARASHTRA CAMPA	RTGS INB: CRG4654243	TRANSFER TO 4599110044308 / MAHARASHTRA CAMPA
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73	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204-02998- MAHARASHTRA CAMPA	RTGS INB: CRG4653708	TRANSFER TO 4599110044303 / MAHARASHTRA CAMPA
74	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204-02999- MAHARASHTRA CAMPA	RTGS INB: CRG4653439	TRANSFER TO 4599110044305 / MAHARASHTRA CAMPA
75	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204-03000- MAHARASHTRA CAMPA	RTGS INB: CRG4653276	TRANSFER TO 4599110044305 / MAHARASHTRA CAMPA
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83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR1202408204-02804611- MAHARASHTRA CAMPA	RTGS INB: CRG4655035	TRANSFER TO 4599109044308 / MAHARASHTRA CAMPA
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*Yogamitra
Executive Engineers
M.S.E.I. Co. Ltd.
G.H.V. Projects Dr. Kalyan*

SOIL CONSERVATION PLAN



Project Name : DIVERSION OF 20.5983 HA. FOREST LAND FOR CONSTRUCTION & LAYING OF 132 KV LILO D/C TRANSMISSION LINE ON 132 KV D/C BOISAR-DAHANU (MIDC) TRANSMISSION LINE FOR 220 KV PALGHAR SUBSTATION PASSING THROUGH PALGHAR DISTRICT.

**User Agency : Executive Engineer
EHV Project Division, Kalyan**

Yogeshwar
**Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan**

INDEX

Sr. No.	Item	Page No.
1	Chapter - 1 INTRODUCTION	
	1.1 General	
	1.2 Scope of Work	
	1.3 Location of the Project	
	1.4 Location of Study Area	
2	Chapter - 2 LAND USE PLAN FOR SOIL CONSERVATION	
	2.1 General	
	2.2 Type of mangrove species for soil conservation	
	2.3 Method of Executing the Work :	
	2.4 Planting Technique for soil conservation	
3	Chapter - 3 BASIC DATA GENERATION	
	3.1 General :	
	3.2 Source of database	
	3.3 Assessment of Surface Soil Wetness (in mts)	
	3.4 Precipitation Status within study area	
	3.5 Profile Soil Moisture Status within study area	
	3.6 Wind Speed Status within study area	
4	Chapter - 4 STUDY AREA MONITORING, MAPPING AND ANALYSIS	
	4.1 Monitoring and interpolation of Mangrove Forest	
5	Chapter - 5 Financial Outlay for Soil Conservation Plan	
	5.1 General	
	5.2 Total Cost of the Project	
6	Chapter - 6 Conclusion	

Chapter – 1

INTRODUCTION

1.1 General

The project has been approved administratively by Government of Maharashtra, Industry, Energy and Labour Department, Mantralaya, Mumbai- 400032. This transmission line sanctioned vides MBR NO. 121/4 DT. 27.9.2017 with an estimate cost of Rs.7117.58 Lakh. The construction & laying of 132kv D/C transmission line from villages of Palghar district. The proposal under forest Conservation Act 1980 is being submitted for the approval of the Central Government for diversion of 20.5983 Ha Forest land in villages Popharan, Unbhat, Uchhali, Pathravali, Tembhi, Pam, Kumbhavali, Agvan, Dapoli, Morekuran, Palghar, District- Palghar.

Presently 220KV Boisar II is feeding 132KV Boisar I (MIDC) and 132KV Palghar stn. The 132KV Dahanu S/stn is fed from 132KV Boisar (MIDC) & extended up to 132KV TSS-Gholwad stn. Further 132KV Dahanu S/stn will feed proposed MMRDA S/stn (Suryanagar & Kavdas) for water supply and proposed 132KV Jawhar Slstn. The 132KV Palghar Sstn is currently feeding 132KV Tss Palghar S/stn.

In view of this, MSECL has decided to improve the supply of power requirement by constructing new transmission lines. The proposed scheme of construction and laying of 132kv transmission line is also one of them.

1.2 Scope of Work:

- a) Proper mitigate measures to minimize soil erosion and choking of streams shall be prepared.
- b) The understocked and degraded areas by way of plantation of appropriate mangrove species.
- a) Study of construction of check dam, retention/toc walls to arrest sliding down of the excavated material along the contour.
- b) No damage of mangrove forest zone area hence the user agency will follow the top soil management plan.
- c) Mapping and monitoring of mangroves along with the satellite image used and sensor used.
- d) Soil Conservation Map

1.3 Location of the Project:

Total 20.5983 Ha forest land involves for the construction & laying of 132kv D/C LILO on 132KV D/C Boisar-Dahanu(MIDC) Tr transmission line for proposed 220kv Palghar SS. The work involves construction of transmission line for LILO on existing 132KV D/C Boisar -Dahanu(MIDC) Tr. Line for proposed 220KV Palghar substation by establishing 132KV level at Palghar, 132KV at Dahanu, 132KV at Boisar and 132KV at Palghar substation. The area is covered in the Survey of India Toposheet No. 47A/9, 47A/10, 47A/13 and 47A14 (R.F.1:50,000)) and is bound by

From	To
Longitude : 72°45'36.58"E	Longitude : 72°41'42.62"E
Latitude : 19°42'53.95"N	Latitude : 19°49'30.20"N

1.4 Location of Study Area :

1.5 Need for Soil Conservation Plan :

Soil Conservation Plan is normally applicable for Hydroelectric and Irrigation Projects where impounding of water is proposed by construction of Barrage, Dam etc. This project is involves construction of transmission line for LILO on existing 132KV D/C Boisar - Dahanu(MIDC) Tr. Line for proposed 220KV Palghar substation by establishing 132KV level at Palghar, 132KV at Dahanu, 132KV at Boisar and 132KV at Palghar substation. Forests in small patches along the creeks and revenue wastelands along the creeks termed as mangrove forest will be protected, conserved and where ever necessary it will be suitably regenerated. The Mangrove forests consist mostly of evergreen trees and shrubs belonging to several unrelated families and share similar habitat preferences and a similar physiognomy. They are predominantly associated with wetness. The root system is modified into a specialized structure called *pneumatophores* in *Avecennia* and *Sonneratia*, stilt roots in *Rhizophora* and *Braguira* spp which serves to meet inadequate aeration consequent on a submerged and water logged soil. However, the top-soil erosion flowing towards the costal catchment area where the mangrove forest patches located it will loss erosion is leading to a direct loss in the mangrove forests. This soil erosion leads to degradation of mangroves. But if the mangrove stretch is already degraded due to reduction in sediment inflow (upstream dams), tree felling, and pollution then an already eroding shoreline goes through further cycles of erosion causing excessive loss. Therefore, the soil conservation important component in the mangrove forest protection.

1.6 Objective of SC Plan :

The objective of SC Plan is to rejuvenate various potential and degraded ecosystems in the mangrove area. Mangroves have rich biodiversity. Mangrove plays the role of a nursery for a large array of aquatic organisms. Mangrove vegetation along the creeks is more or less dense forest of very low average height. The action plans have been prepared for this purpose with the following objectives.

1. To protect and conserve Casuarina and mangrove forests as a special marine /coastal eco-system and safeguard the ecological sensitivity of the coastal area and also to enhance its aesthetic value.
2. To minimize erosion and protect the in-land cultivation from shifting sands
3. To implement soil erosion activity such as soil conservation structure.
4. To make the otherwise barren, unproductive, sandy area a productive area by planting casuarina which is the species that can thrive well in area.
5. To restore the Mangrove areas by way of afforestation which have been degraded due to biotic interference.
6. The maps depicting various categories such as dense mangrove, sparse mangrove and mud flats based on satellite imagery.
7. Preparation treatment map shall show the Unworkable Areas, Plantable Areas, Dense Mangrove areas distinctly for soil conservation management.

Chapter – 2

LAND USE PLAN FOR SOIL CONSERVATION

2.1 General :

Mangrove species and Casuarina species. The Mangrove forests belong to the Group "Littoral and Swamp Forests" sub-group "4 B/ TSI - Mangrove Scrub Forests" under revised classification of Indian Forest Types by Champion and Seth. The Mangrove forests consist mostly of evergreen trees and shrubs belonging to several unrelated families and share similar habitat preferences and a similar physiognomy. They are predominantly associated with wetness. The root system is modified into a specialized structure called *pneumatophores* in *Avecennia* and *Sonneratia*, stilt roots in *Rhizophora* and *Braguira* spp which serves to meet inadequate aeration consequent on a submerged and waterlogged soil. They possess an exclusive ability to thrive in saline environment.

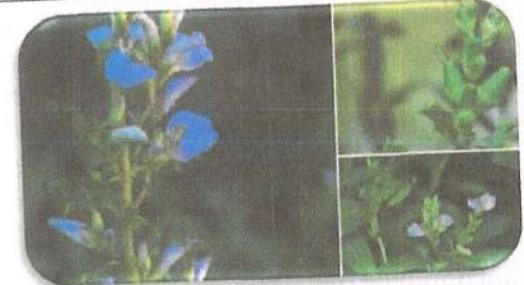
Mangroves have rich biodiversity. Mangrove plays the role of a nursery for a large array of aquatic organisms. Mangrove vegetation along the creeks is more or less dense forest of very low average height. Some species attain a height of 10 m at favourable places. The density varies from 0.2 to 0.8. The tidal vegetation consists mostly of Tiwar (*Avicenia alba*), and Maraudi (*Acanthus ilicifolius*). The area remains submerged by salt water during the high tides. As a result of constant movement of water currents the soil is muddy. Due to various uses of Mangrove trees, the mangrove forests in the tract were exploited to a considerable extent. Reclamation of mangrove areas for human habitation, grazing, salt pans, and fishing and paddy cultivation are some of the main factors responsible for destruction of mangrove forests. On the other hand along the western coasts forests consisting of plantations of Suru (*Casuarina equisetifolia*) have been raised. There is no underwood or undergrowth. In the younger plantations there is some ground cover consisting of herbs and grasses. But in older plantations even this is absent and the ground is covered with the fallen needies of suru trees. Eucalyptus hybrid has been interplanted in Suru plantations raised in 1962-63.

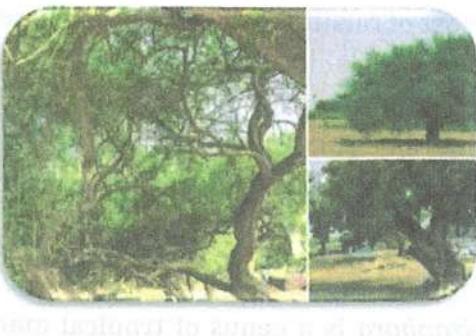
Mangrove Forest the main object of management is to enrich the understocked and degraded areas by way of plantation of appropriate mangrove species. Well stocked mangrove areas will be protected from biotic interference. No harvesting is being proposed. Hence no Silvicultural system is prescribed. Casuarina occurs almost along the coasts, the plantations are proposed to be retained as green belt for aesthetic and

environmental reasons. Only the gaps will be planted up with Suru. Dead, illicitly gridled and windfallen trees will only be removed.

2.2 Type of mangrove species for soil conservation

	<p><i>Rhizophora mucronata</i> is a small to medium size evergreen tree growing to a height of about 20 to 25 metres (66 to 82 ft) on the banks of rivers. On the fringes of the sea 10 or 15 metres (33 or 49 ft) is a more typical height. The tallest trees are closest to the water and shorter trees are further inland.</p>
	<p><i>Rhizophora apiculata</i> has a C4 plant morphology that best adapts the plant for high temperature and low water climates, enabling the plant to thrive in tropical environments due to the diffuse CO₂ whilst limiting the amount of water transpired out of the leaves.</p>
	<p>The young tree forms a low, dense bushy crown. When it matures, it forms a columnar tree up to 15 m and may grow up to 30 m. The shiny green leaves, 10 cm long by 5 cm wide, have rounded apexes and golden-brown under leaf and grow in opposites.</p>
	<p>A tree that can grow up to 35m, though usually smaller, around 7-20m, it has a glabrous, smoothish trunk with reddish-brown bark that is sometimes fibrous, sometimes lightish brown or grey. The tree develops short prop-roots rather than long stilt-roots.</p>

	<p><i>Sonneratia alba</i> grows up to 40 m (130 ft) tall with a trunk diameter up to 70 cm (30 in). The cracked to fissured bark is brownish, turning grey below the tidal mark. The flowers are white, with pink at their base. The dark green fruits measure up to 5 cm (2 in) long.</p>
	<p><i>Acanthus ilicifolius</i> The plant grows as a shrub, up to 2 metres (6 ft 7 in) tall. It has shallow tap roots and occasionally develops a stilt root. Fruits are kidney-shaped.</p>
	<p><i>Aegiceras corniculatum</i> grows as a shrub or small tree up to 7 metres (23 ft) high, though often considerably less. Its leaves are alternate, obovate, 30–100 millimetres (1.2–3.9 in) long and 15–50 millimetres (0.59–1.97 in) wide, entire, leathery and minutely dotted.</p>
	<p><i>Ceriops decandra</i> grows as a shrub or small tree up to 15 metres (50 ft) tall with a trunk diameter of up to 30 cm (12 in). Its bark is pale brown. The flowers are white. The ovoid to conical fruits measure up to 1.8 cm (0.7 in) long.</p>
	<p><i>Lumnitzera racemosa</i> is a small to medium-sized evergreen tree, growing to a maximum height of 37 m (121 ft). It develops pneumatophores and often has stilt roots. The leaves are arranged spirally at the tips of the shoots; they are simple and obovate, with slightly toothed margins.</p>

	<p><i>Sesuvium portulacastrum</i> is a vine up to 30 centimetres (12 in) high, with thick, smooth stems up to 1 metre (3.3 ft) long. It has smooth, fleshy, glossy green leaves that are linear or lanceolate, from 1–7 centimetres (0.39–2.76 in) long and 2–1.5 centimetres (0.79–0.59 in) wide.</p>
	<p><i>Salvadora persica</i> is a small tree or shrub with a crooked trunk, typically 6–7 metres (20–23 ft) in height. Its bark is scabrous and cracked, whitish with pendulous extremities. The root bark of the tree is similar in colour to sand, and the inner surfaces are an even lighter shade of brown.</p>
	<p><i>Acrostichum aureum</i> The golden leather fern has large fronds growing to a length of 1.8 metres (six feet). The leaves are glossy, broad and pinnate, the pinnae being dark green, leathery, alternate and widely spaced. The outer fronds arch over sideways but the central ones are nearly straight. Some of the larger fronds bear sporangia (reproductive organs) on the upper five to eight pairs of pinnae. These are brick red and give the pinnae a felted appearance.</p>

Casuarina equisetifolia (Suru) is the species that can be grown well in the coastal sands and hence the same species is recommended for the areas under soil conservation and mangrove forest development. The management of protection and suitable rehabilitation of the degraded areas. Hence there is no need for fixing rotation.

2.3 Method of Executing the Work :

A treatment map will be prepared for the Mangrove Forests after thoroughly inspecting the area and treatment map shall show the following areas distinctly.

I. Unworkable Areas :

No work will be carried out. Protection will be given.

II. Plantable Areas :

Plantation of Mangrove species will be raised.

III. Dense Mangrove :

No work will be done. Only protection will be given.

IV. Mangrove nursery :

Mangrove nursery will be selected near the Estuary or Sea in the low lying areas which gets inundated during the high tide. This will facilitate watering of the seedlings twice a day thereby reducing the cost of raising seedlings in the nursery. The nursery should be located near the site of the plantation to minimize the cost of transportation of the seedlings. The matured propagules of viviparous species like *Rhizophora*, *Bruguiera* and *Kandelia* should be collected and planted directly in the plantation. They need not be raised in the nurseries. Other species species like *Avecennia*, *Sonneratia* etc should be raised in the nursery.



Rhizophora is a genus of tropical mangrove trees, sometimes collectively called true mangroves. The most notable species is the red mangrove (*Rhizophora mangle*) but some other species and a few natural hybrids are known. *Rhizophora* species generally live in intertidal zones which are inundated daily by the ocean.



Bruguiera is a plant genus in the family Rhizophoraceae. It is a small genus of five mangrove species and three hybrids of the Indian Ocean region



Kandelia candel is a species of mangrove in the family Rhizophoraceae, found around the coasts of western India. Its flaky bark is lenticellate and coloured greyish to reddish brown. The flowers are white.

Chapter – 3

BASIC DATA GENERATION

3.1 General :

The mangrove forests play a very important role in soil conservation along the seashore area. The soil conservation improves soil quality by reducing pollutant concentrations, optimizing structure, chemical equilibrium and ecological stability, thereby enabling the soil to perform better in supporting plant growth.

1. Remote sensing satellite imagery provides valuable information for mangrove mapping and monitoring.
2. Preparation of soil distribution maps
3. Land use/land cover maps and the mangrove change map are generated to identify the mangrove distribution and temporal variation
4. Precipitation mapping within the study area
5. Assessment of mangrove forest type using high resolution satellite imagery
6. Preparation of topographic maps
7. Digital Elevation Model (DEM)
8. Micro Watershed including streams and water-logged area
9. Preparation of treatment maps for soil conservation
10. Normalized Vegetation Index (NDVI) is classified to have high accuracy in mapping mangrove in an area.

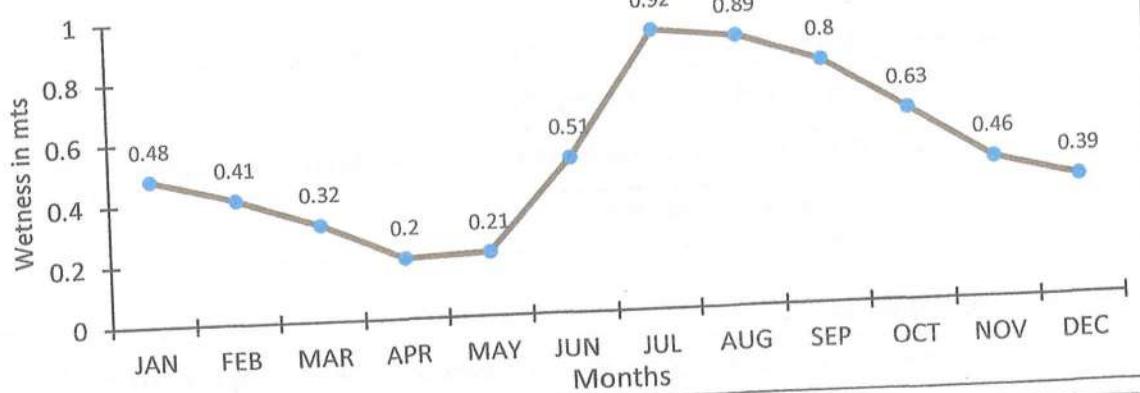
3.2 Source of database

- a) Sentinel multispectral images were obtained from the European Space Agency (ESA)
- b) The POWER Data Services consists of a series of restful Application Programming Interfaces (API), geospatial enabled image services, and the Registry of Open Data on AWS. These three different service offerings support data discovery, access, and distribution to our user base as Analysis Ready Data (ARD) and as direct application inputs.
- c) Digital Elevation Models (DEM) high accuracy satellite data
- d) Geo-Spatial Technology used for analysis of data

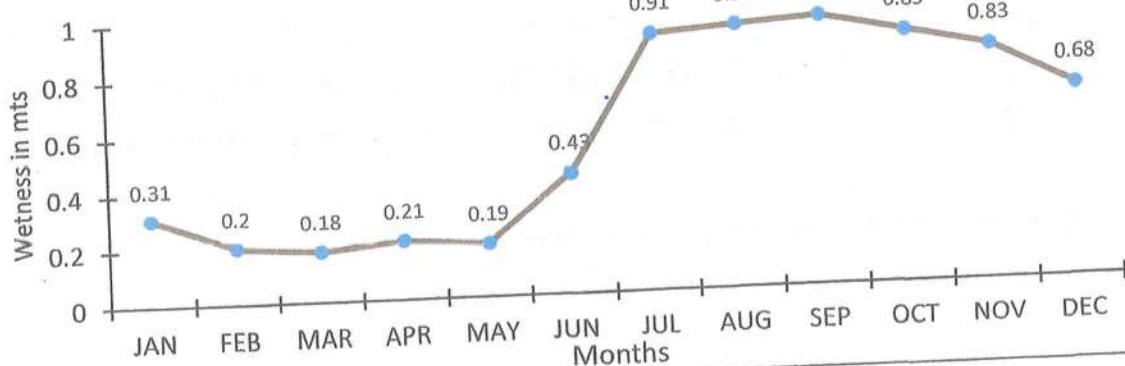
3.3 Assessment of Surface Soil Wetness (in mts):

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
2018	0.48	0.41	0.32	0.2	0.21	0.51	0.92	0.89	0.8	0.63	0.46	0.39	0.52
2019	0.31	0.2	0.18	0.21	0.19	0.43	0.91	0.93	0.95	0.89	0.83	0.68	0.56
2020	0.51	0.41	0.34	0.23	0.23	0.63	0.88	0.96	0.94	0.87	0.73	0.57	0.61
2021	0.47	0.4	0.3	0.23	0.41	0.67	0.84	0.89	0.94	0.9	0.78	0.73	0.63
2022	0.55	0.44	0.38	0.25	0.25	0.46	0.93	0.92	0.93	0.87	0.73	0.55	0.61

Surface Soil Wetness - 2018



Surface Soil Wetness - 2019



To raise mangrove species in the nursery, perforated polybags will be filled with sandy/silty clay and arranged in the beds. The filled bags will be supported by a framework made up of bamboo splits placed along the boundary of each bed. The filled bags may also be placed in a dug up place similar to sunken beds but water should be regulated so that the salinity does not increase. The works will be done during the low tide.

2.4 Planting Technique for soil conservation

In case of Mangrove plantation in the areas of high salinity species of *Rhizophora mucronata*, *Avicennia marina*, *Bruguiera parviflora* and *Sonneratia alba* etc should be planted while in a relatively lower salinity areas species of *Rhizophora apiculata*, *Avicennia officinalis*, and *Kandelia rheedi* etc should be planted. In order to preserve the existing local species the following species should also be tried in the Mangrove plantations; *Avicennia alba*, *Bruguiera gymnorhiza*, *B. cylindrical*, *Sonneratia apatala*, *Acanthus ilicifolius*, *Aegiceras corniculatum*, *Ceriops decandra*, *C.tagal*, *Lumnitsera racemosa*, *Sesuvium portulacastrum*, *Sucada Decentra*, *Salvadora persica*, and *Aerostachium aerium*.

Based on their mode of regeneration two planting techniques will be adopted.

I. Planting of Viviparous Species:

Viviparous genus like *Rhizophora*, *Bruguiera*, *Ceriops* and *Kandelia* produces propagules on the mother plant itself. Matured and healthy propagules having a band of pale tissues near the fruit wall will be collected and planted from April to July. The propagules will be planted 4 cm to 8 cm deep in the soil. The propagules will be planted within seven days from the day of collection.

II. Planting of Non-Viviparous Species:

Species like *Avicennia* and *Sonneratia* will be raised and maintained in the nurseries for a year before planting. When the seedlings attain a height of about 40cm to 45 cm in 6months to 12 months the seedlings will be planted during the low tide period.

III. Subsidiary Cultural Operation.

In case of Mangrove Plantation casualty replacement will be done in the second year of plantation. No weeding will be required but debris and garbage collected

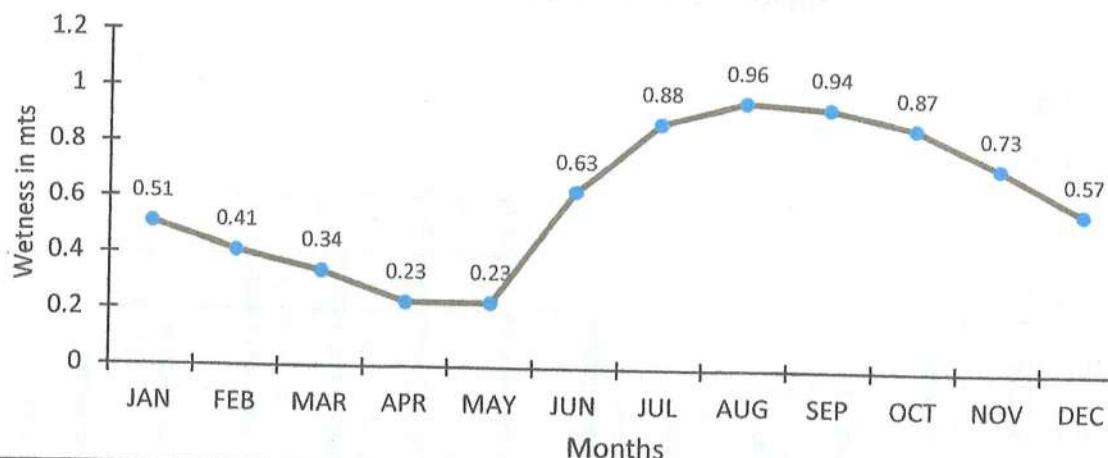
at the base of the seedlings should be removed and heaped above the tidal limits.

No cleaning and thinning is prescribed.

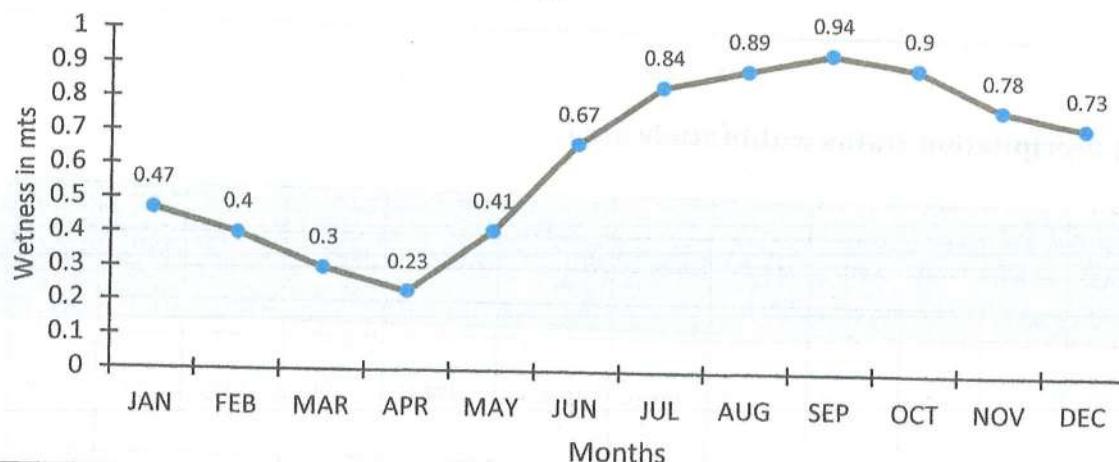
In the case of Casuarina Plantations

- a) **Weedings** - There is very little growth of weeds in the area. No weeding will therefore ordinarily be necessary.
- b) **Cleanings** - Since no thinning is prescribed and the area being sandy no cleaning will therefore ordinarily be necessary

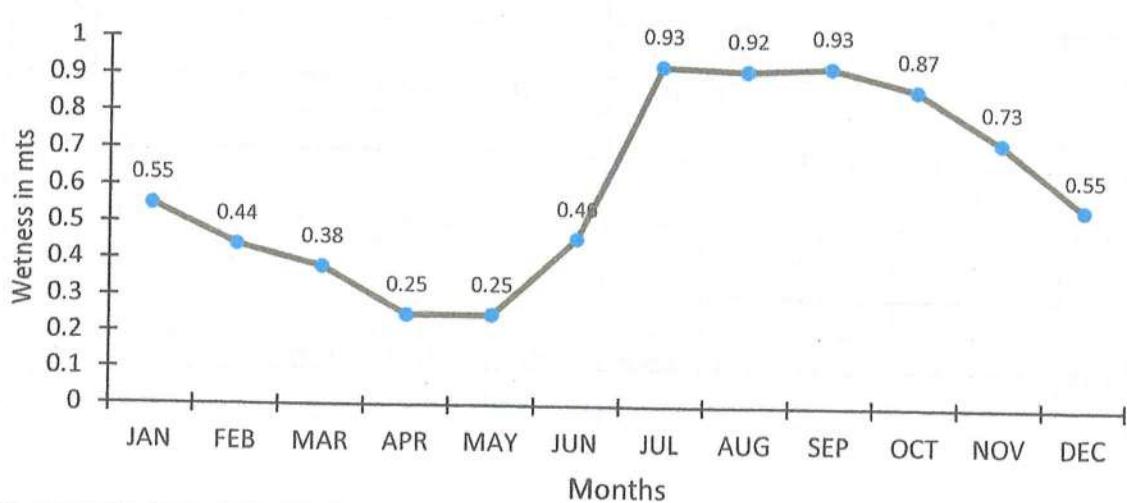
Surface Soil Wetness - 2020

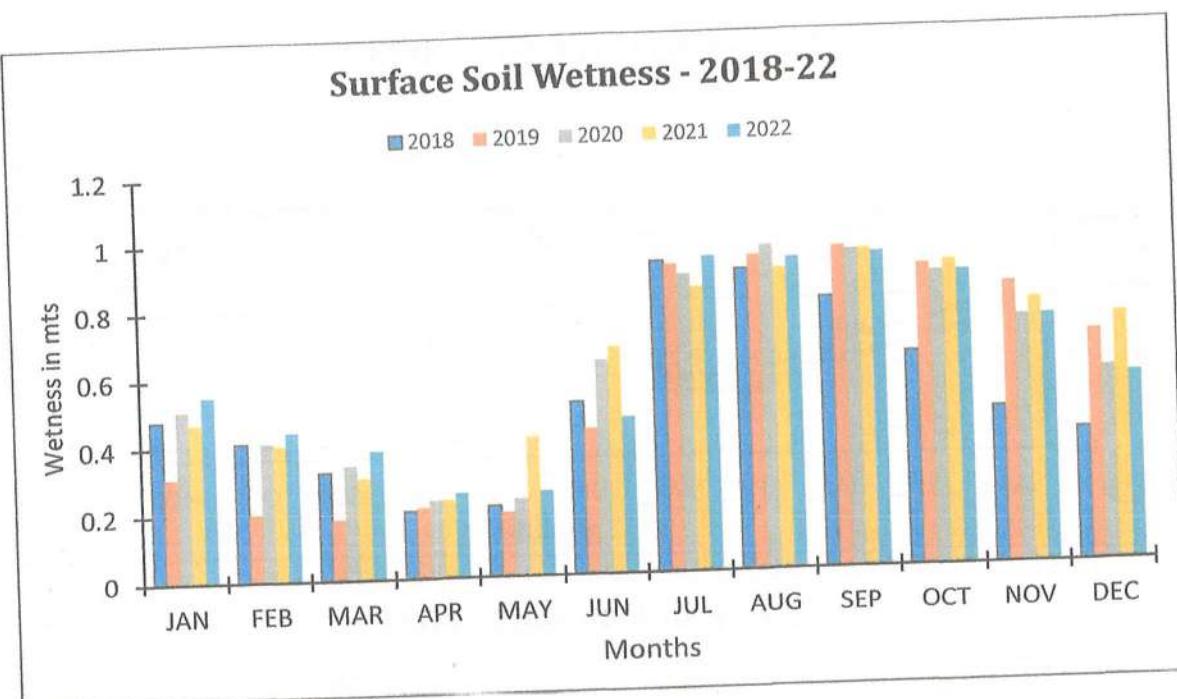


Surface Soil Wetness - 2021



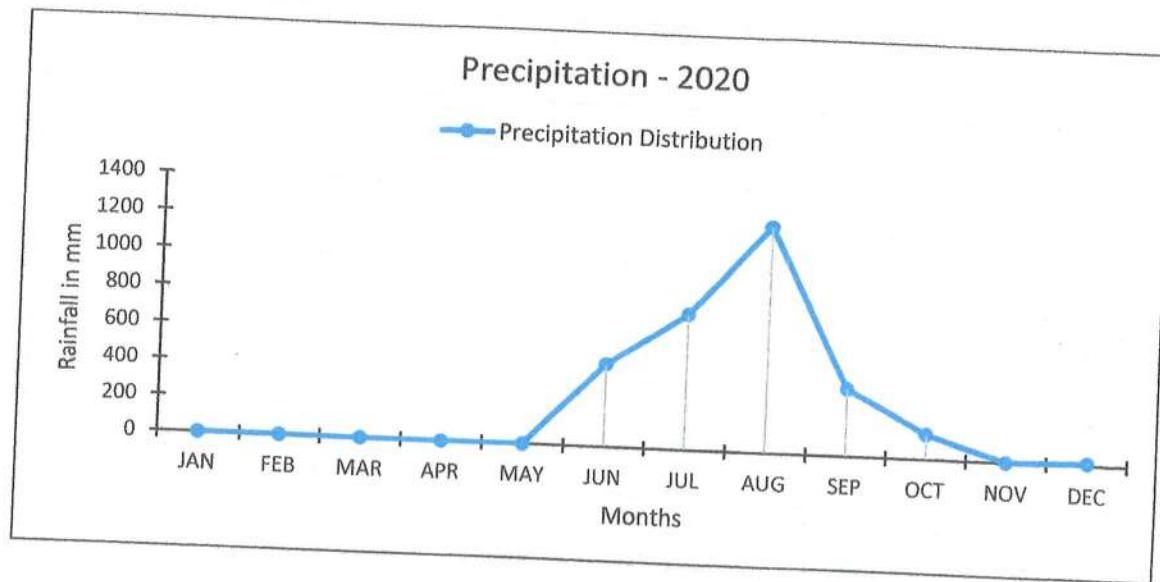
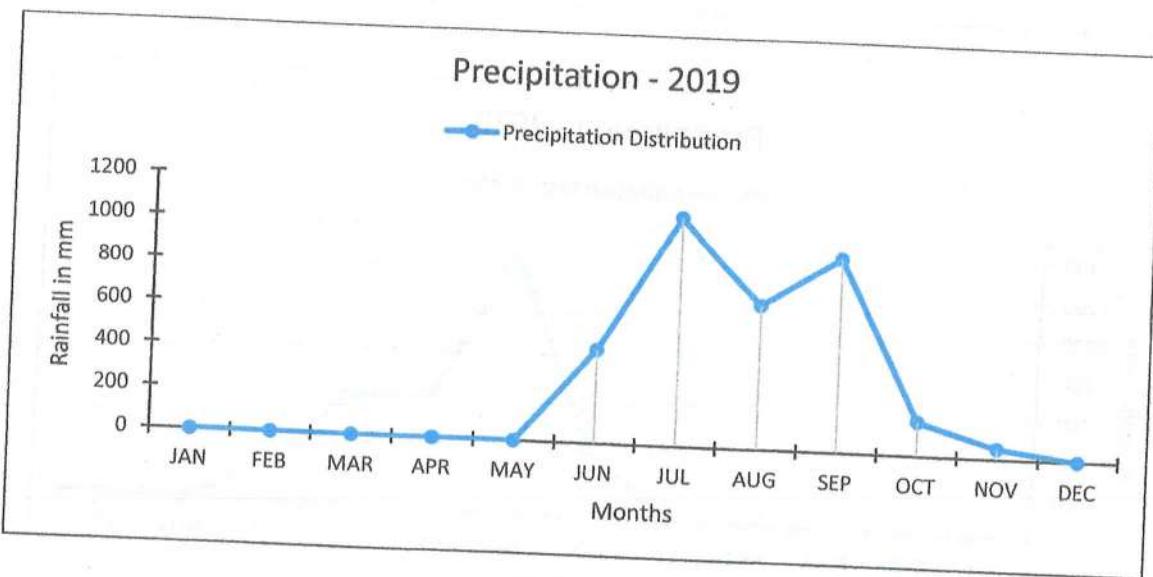
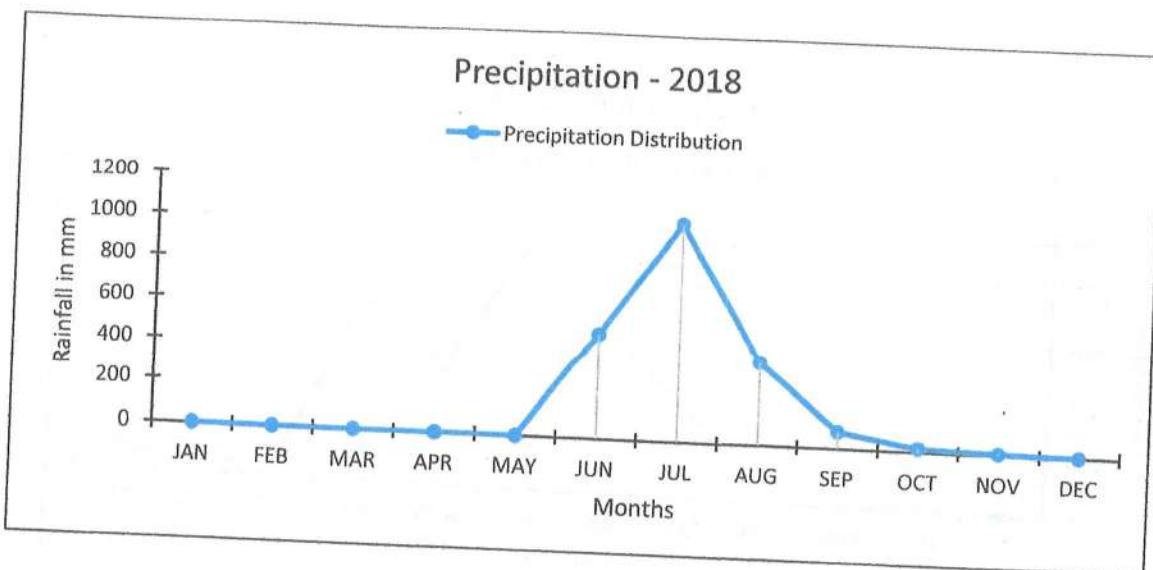
Surface Soil Wetness - 2022

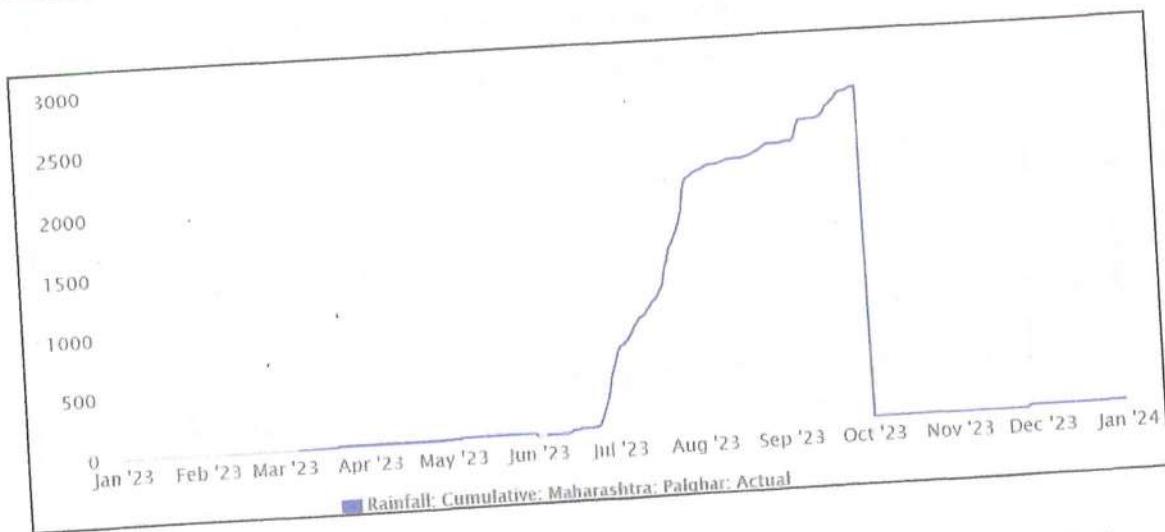
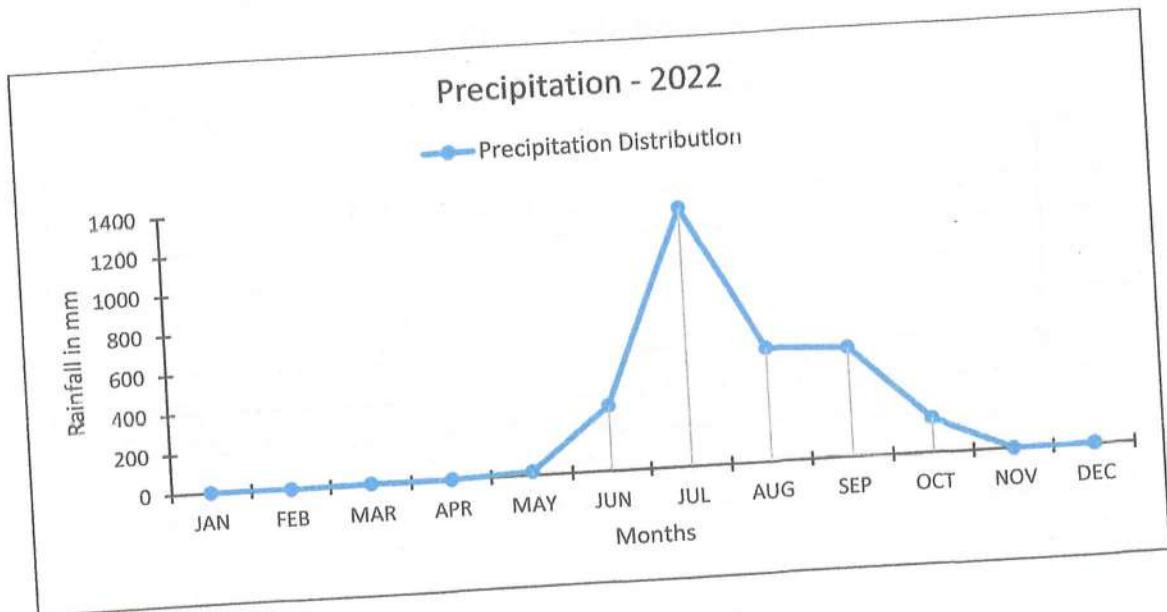
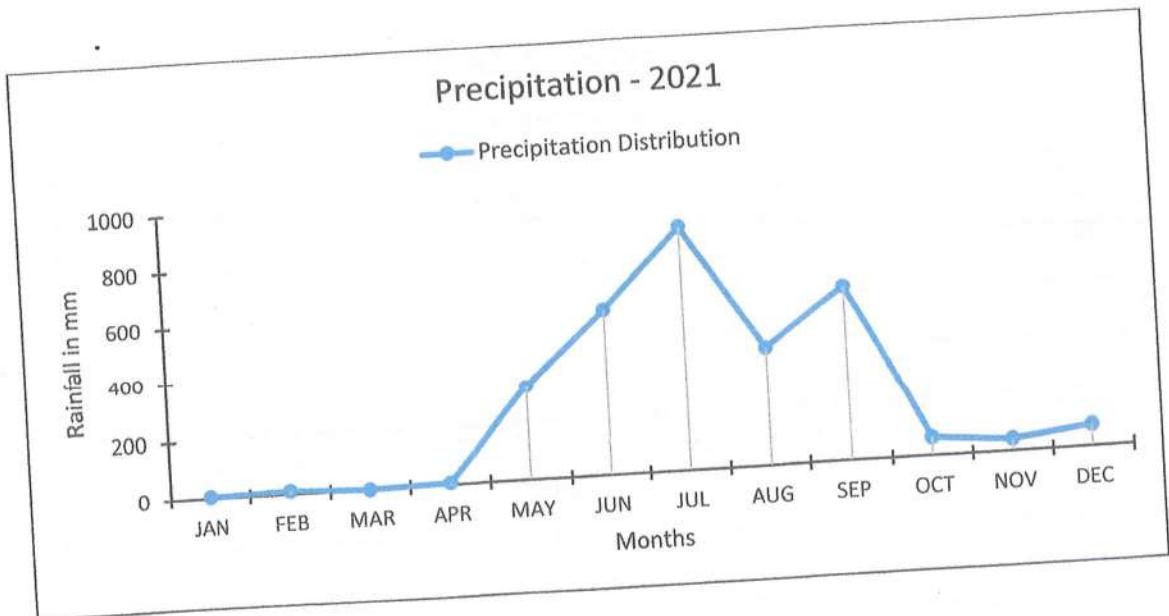


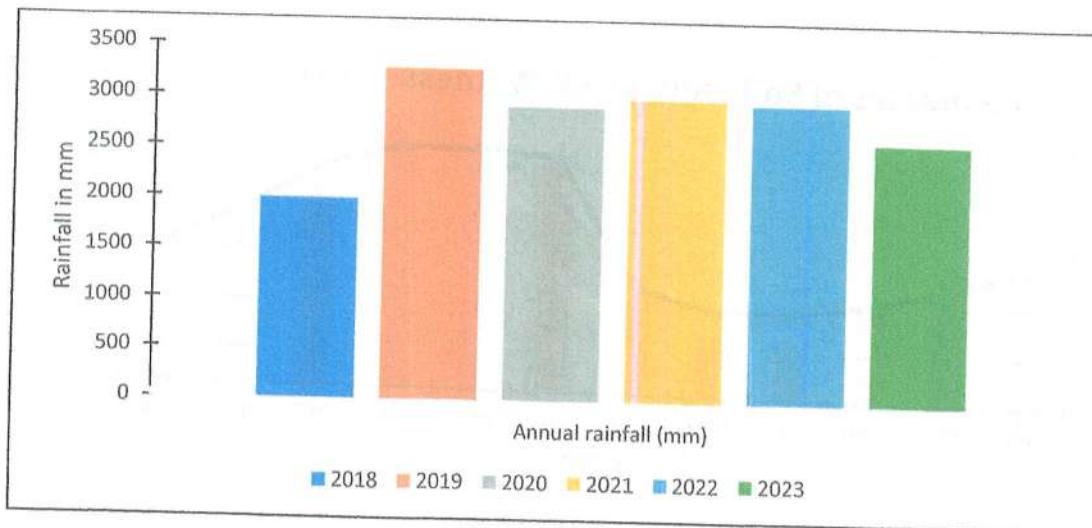


3.4 Precipitation Status within study area

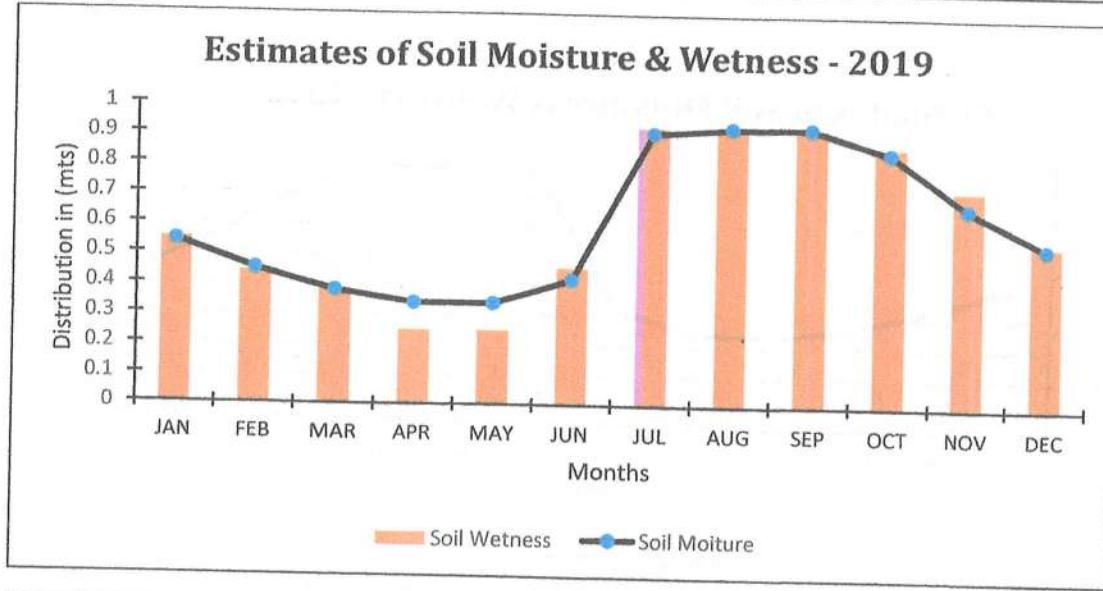
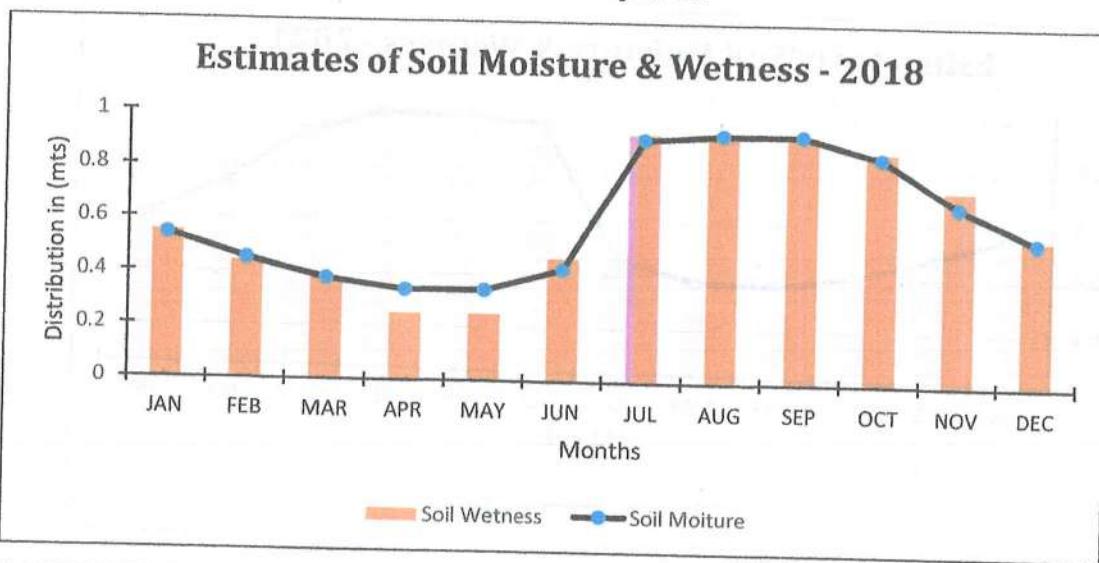
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
2018	0	0	0	0	0	485.16	1028.32	374.41	79.1	15.82	5.27	0	1988.09
2019	0	0	0	0	0	432.42	1065.23	669.73	901.76	158.2	47.46	0	3274.8
2020	0	0	0	0	0	448.24	738.28	1223.44	363.87	131.84	0	10.55	2916.21
2021	5.27	10.55	0	7.4	322.68	583.86	865.46	413.82	618.19	60.92	40.08	71.4	2999.65
2022	2.15	0.28	5.58	1.93	17.11	328.35	1308.8	572.47	551.46	173.44	0.42	4.63	2966.64

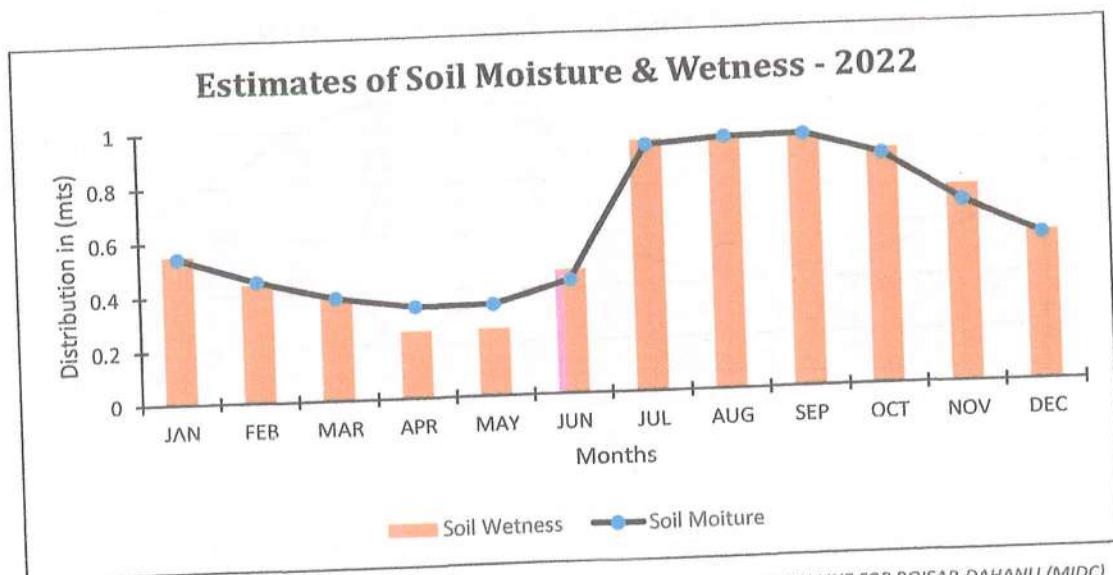
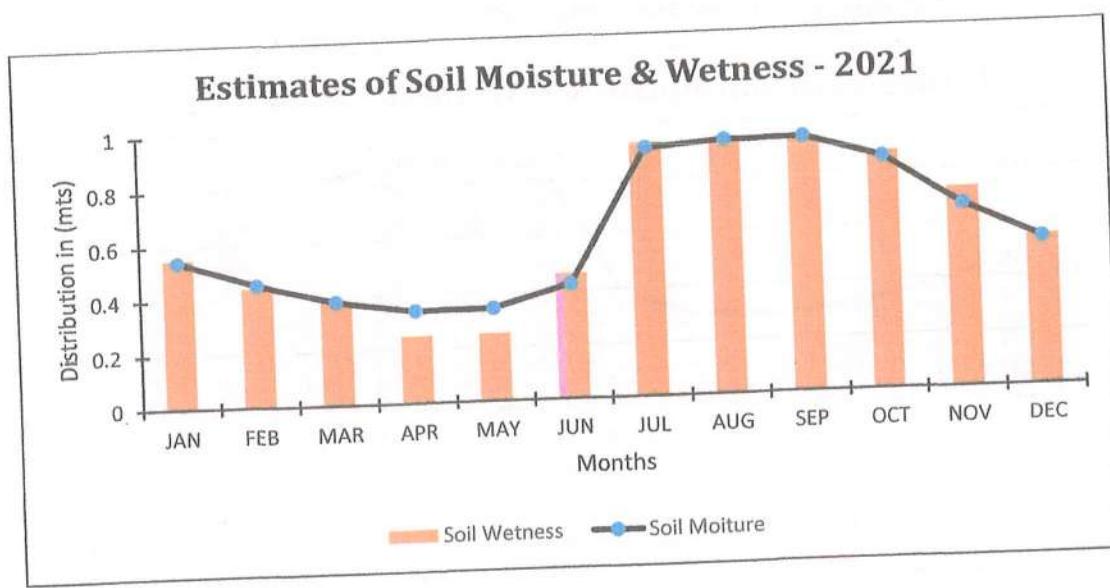
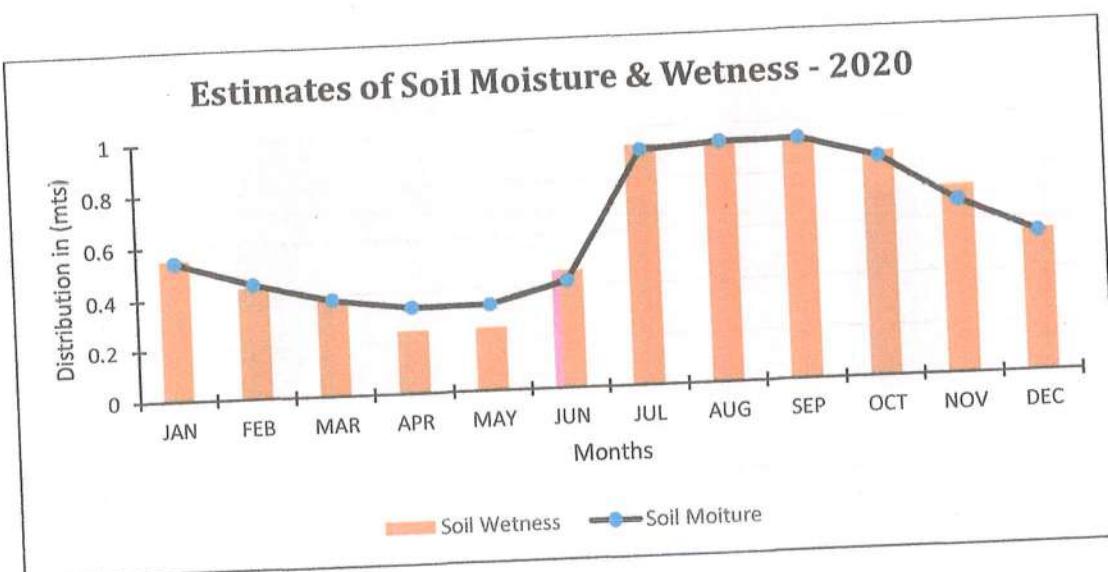






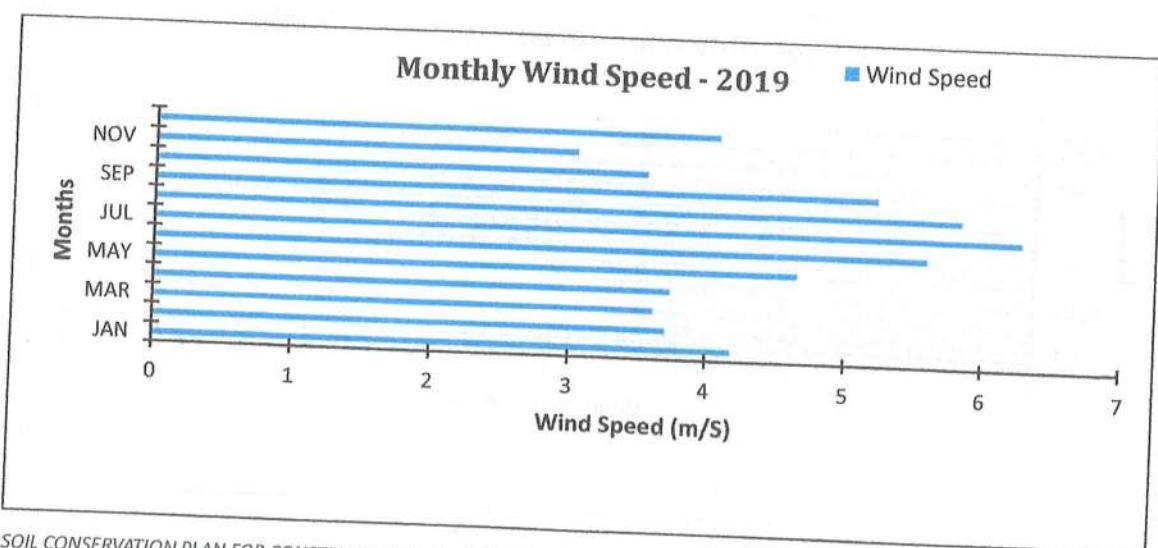
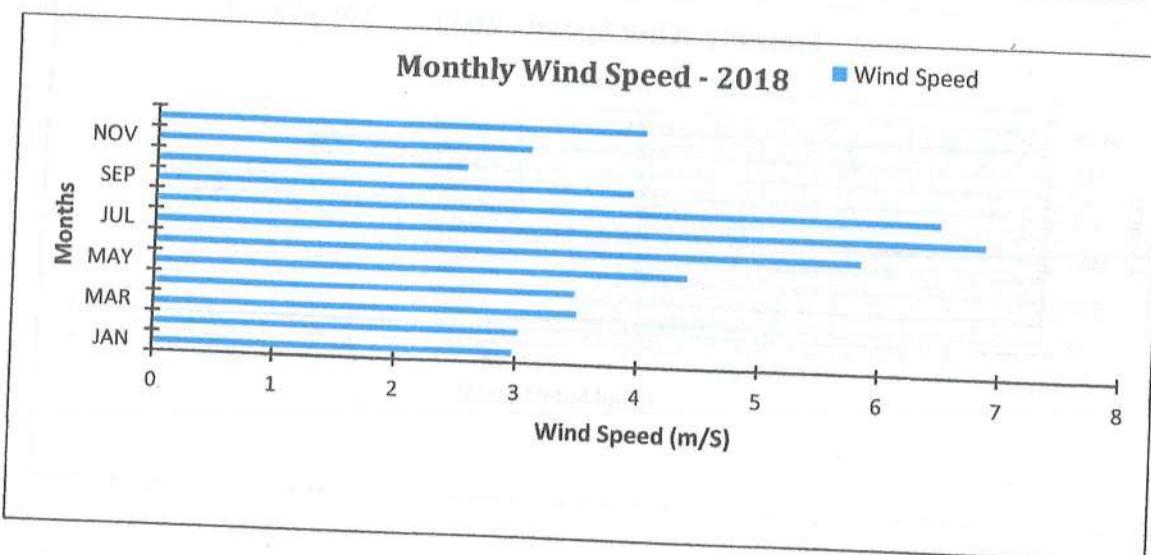
3.5 Profile Soil Moisture Status within study area

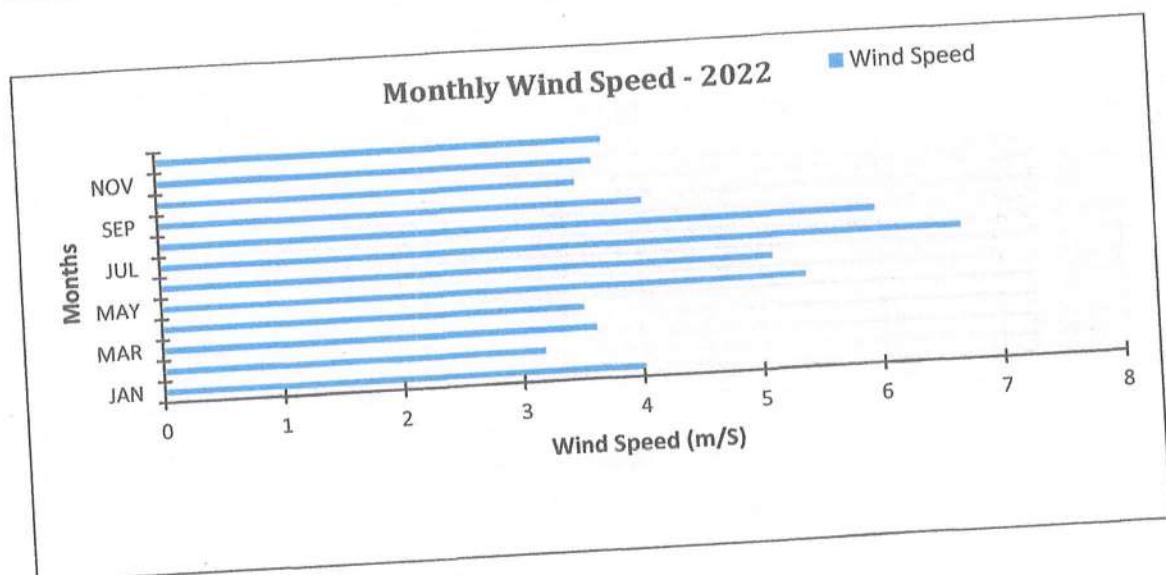
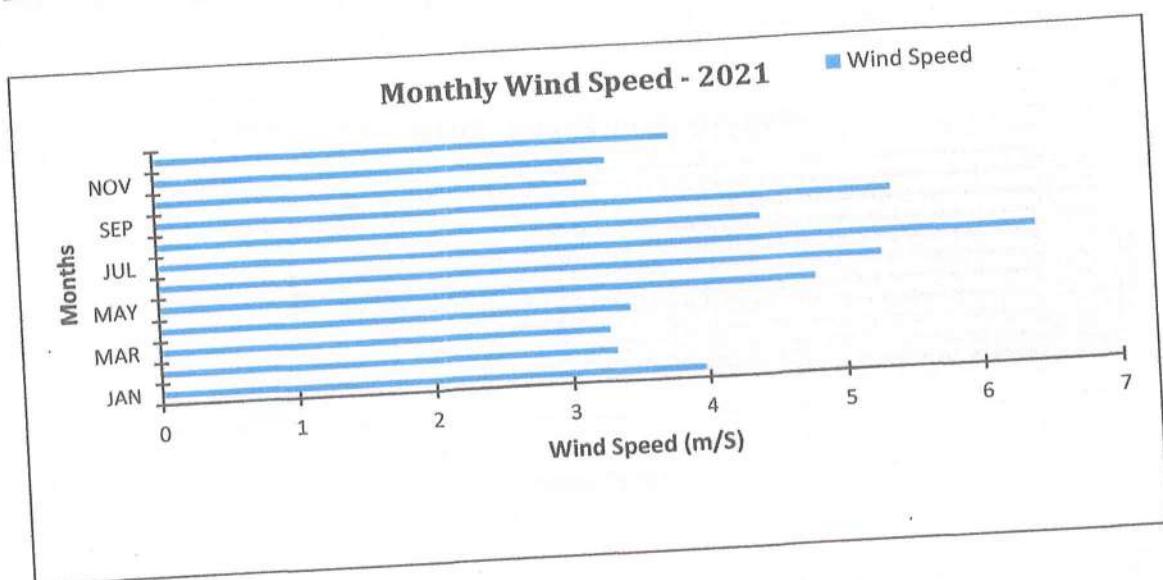
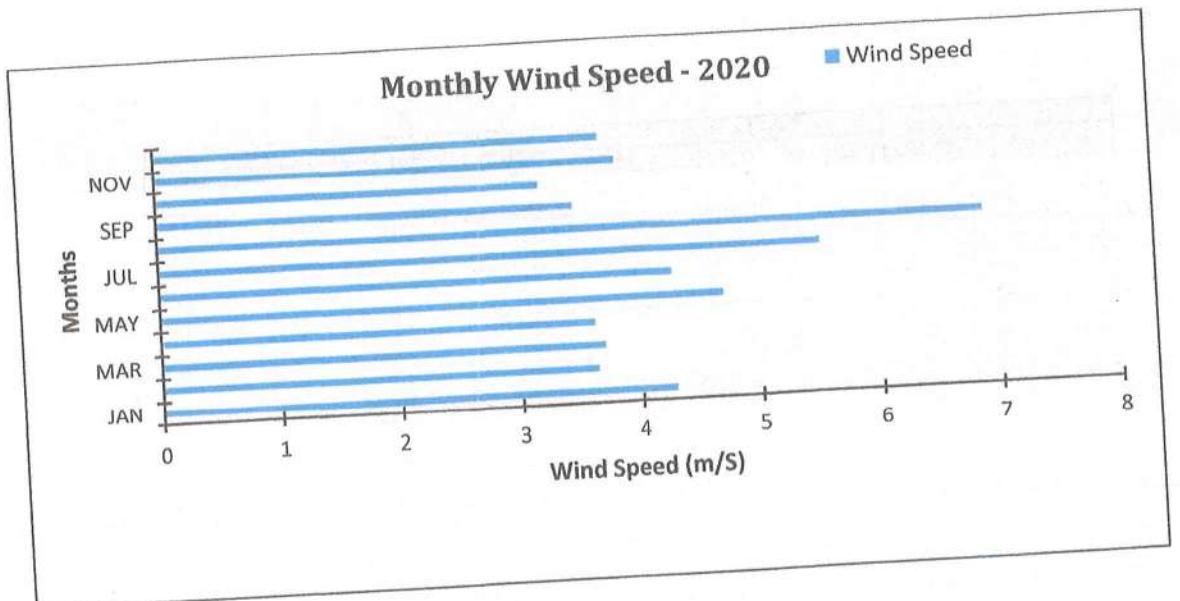




3.6 Wind Speed Status within study area

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN
2018	2.97	3.02	3.5	3.48	4.41	5.84	6.88	6.5	3.94	2.56	3.09	4.03	4.2
2019	4.18	3.7	3.61	3.73	4.65	5.59	6.28	5.84	5.22	3.55	3.04	4.07	4.46
2020	4.29	3.64	3.7	3.62	4.7	4.28	5.52	6.88	3.48	3.2	3.84	3.71	4.25
2021	3.97	3.33	3.28	3.44	4.79	5.27	6.4	4.41	5.36	3.16	3.3	3.77	4.21
2022	4.01	3.18	3.62	3.52	5.37	5.11	6.68	5.97	4.04	3.49	3.64	3.73	4.38





Chapter - 4

STUDY AREA MONITORING, MAPPING AND ANALYSIS

4.1 Monitoring and interpolation of Mangrove Forest:

The area under this Working Circle comprises of Mangrove species and Casuarina species. The Mangrove forests belong to the Group "Littoral and Swamp Forests" "sub-group "4 B/ TSI - Mangrove Scrub Forests" "under revised classification of Indian Forest Types" by Champion and Seth. The Mangrove forests consist mostly of evergreen trees and shrubs belonging to several unrelated families and share similar habitat preferences and a similar physiognomy. They are predominantly associated with wetness. The root system is modified into a specialized structure called *pneumatophores* in *Avecennia* and *Sonneratia*, stilt roots in *Rhizophora* and *Braguira* spp which serves to meet inadequate aeration consequent on a submerged and waterlogged soil. They possess an exclusive ability to thrive in saline environment. Mangroves have rich biodiversity.

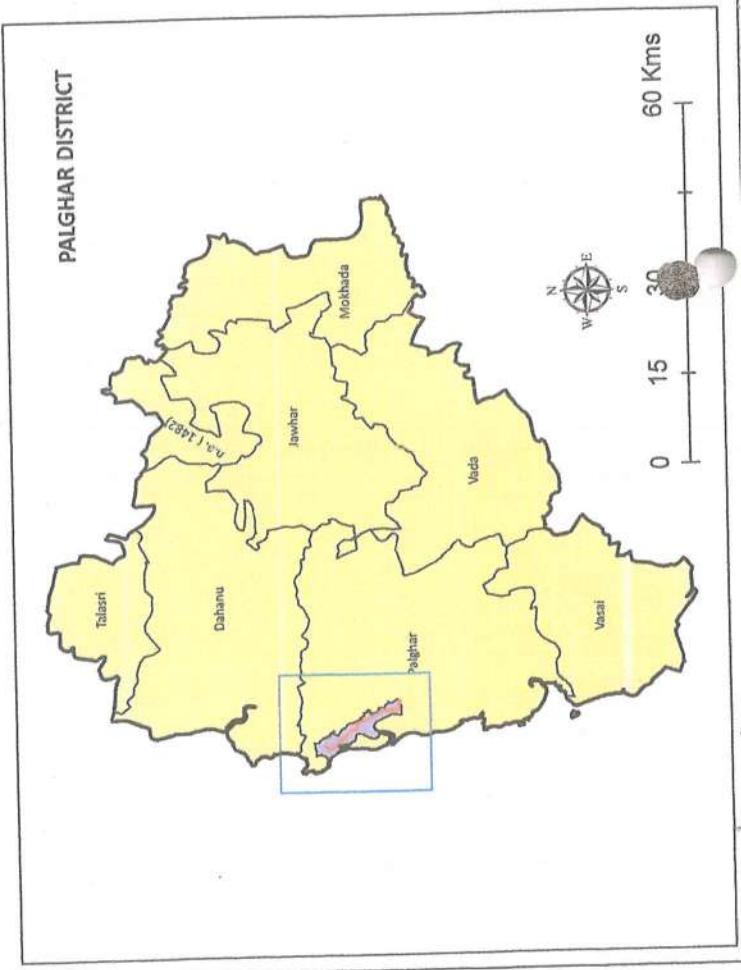
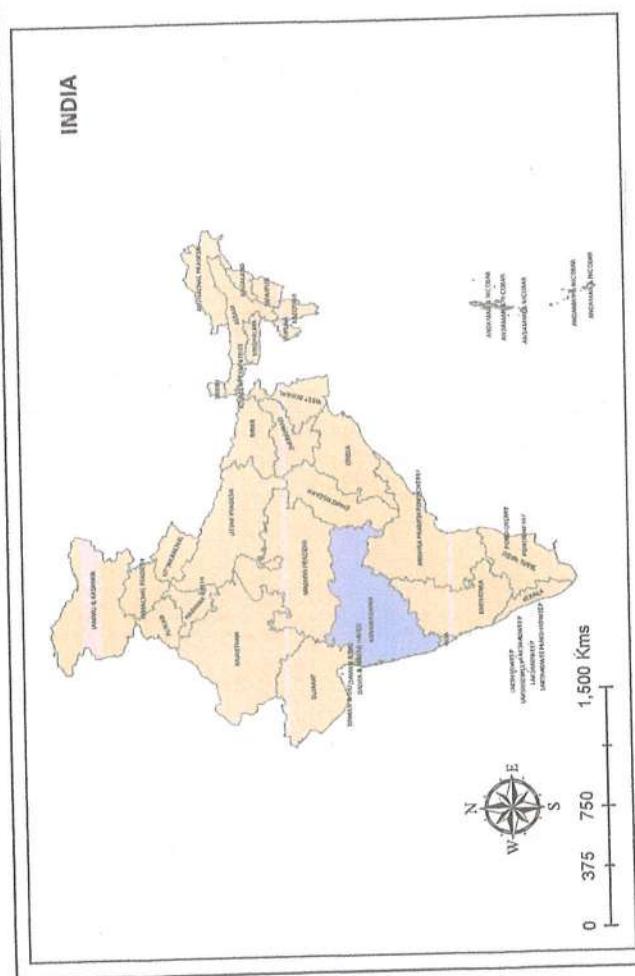
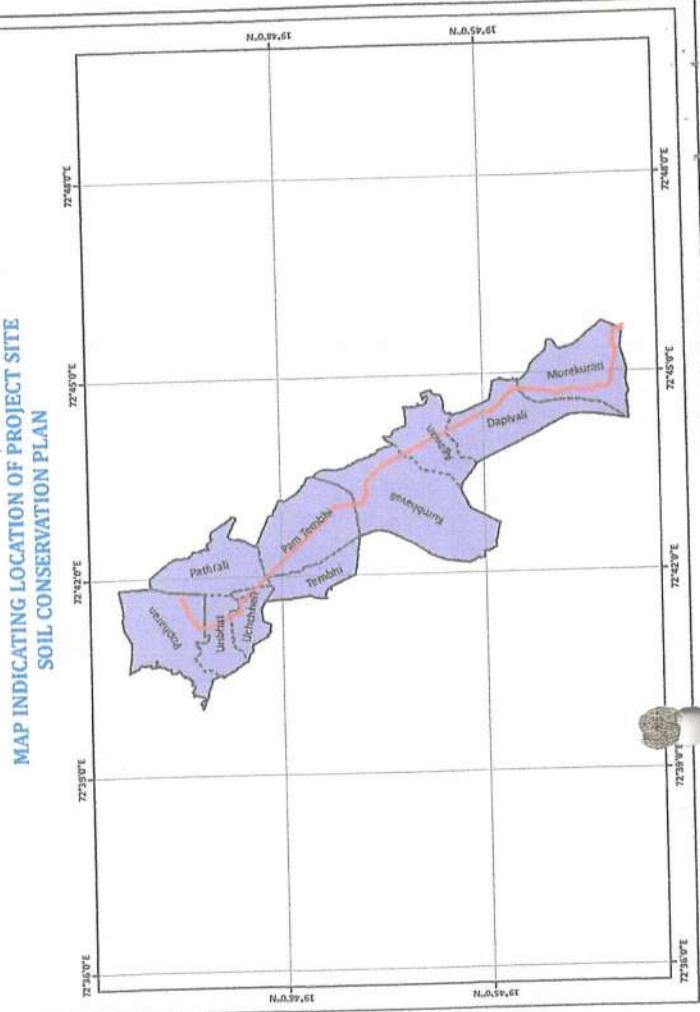
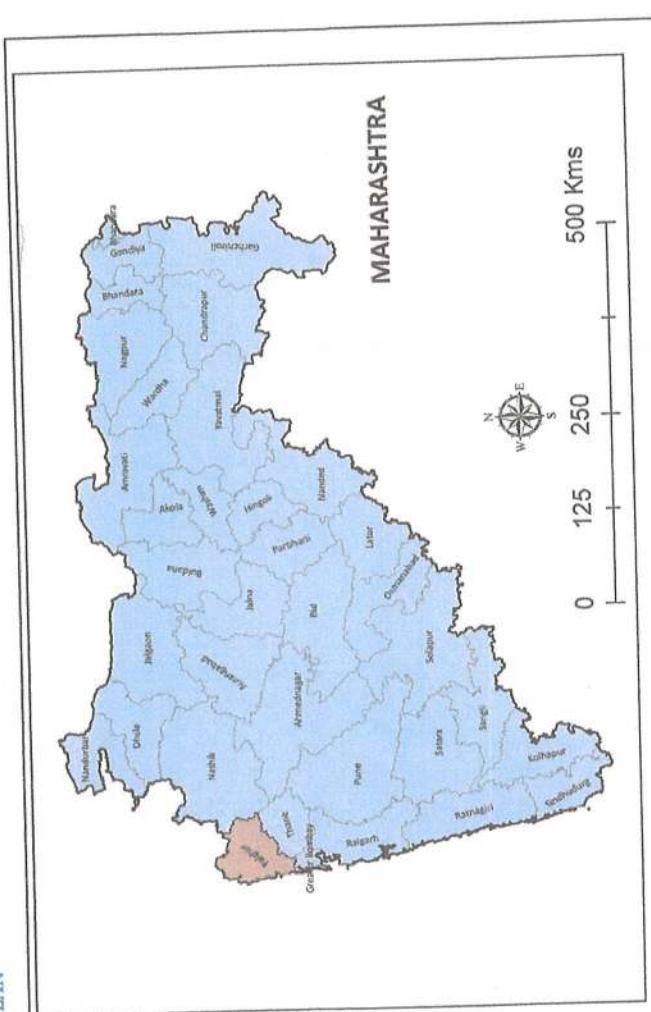
Mangrove plays the role of a nursery for a large array of aquatic organisms. Mangrove vegetation along the creeks is more or less dense forest of very low average height. Some species attain a height of 10 m at favourable places. The density varies from 0.2 to 0.8. The tidal vegetation consists mostly of Tiwar (*Avicenia alba*), and Maraudi (*Acanthus ilicifolius*). The area remains submerged by salt water during the high tides. As a result of constant movement of water currents the soil is muddy. Due to various uses of Mangrove trees, the mangrove forests in the tract were exploited to a considerable extent. Reclamation of mangrove areas for human habitation, grazing, salt pans, and fishing and paddy cultivation are some of the main factors responsible for destruction of mangrove forests. On the other hand along the western coasts forests consisting of plantations of Suru (*Casuarina equisetilolia*) have been raised.

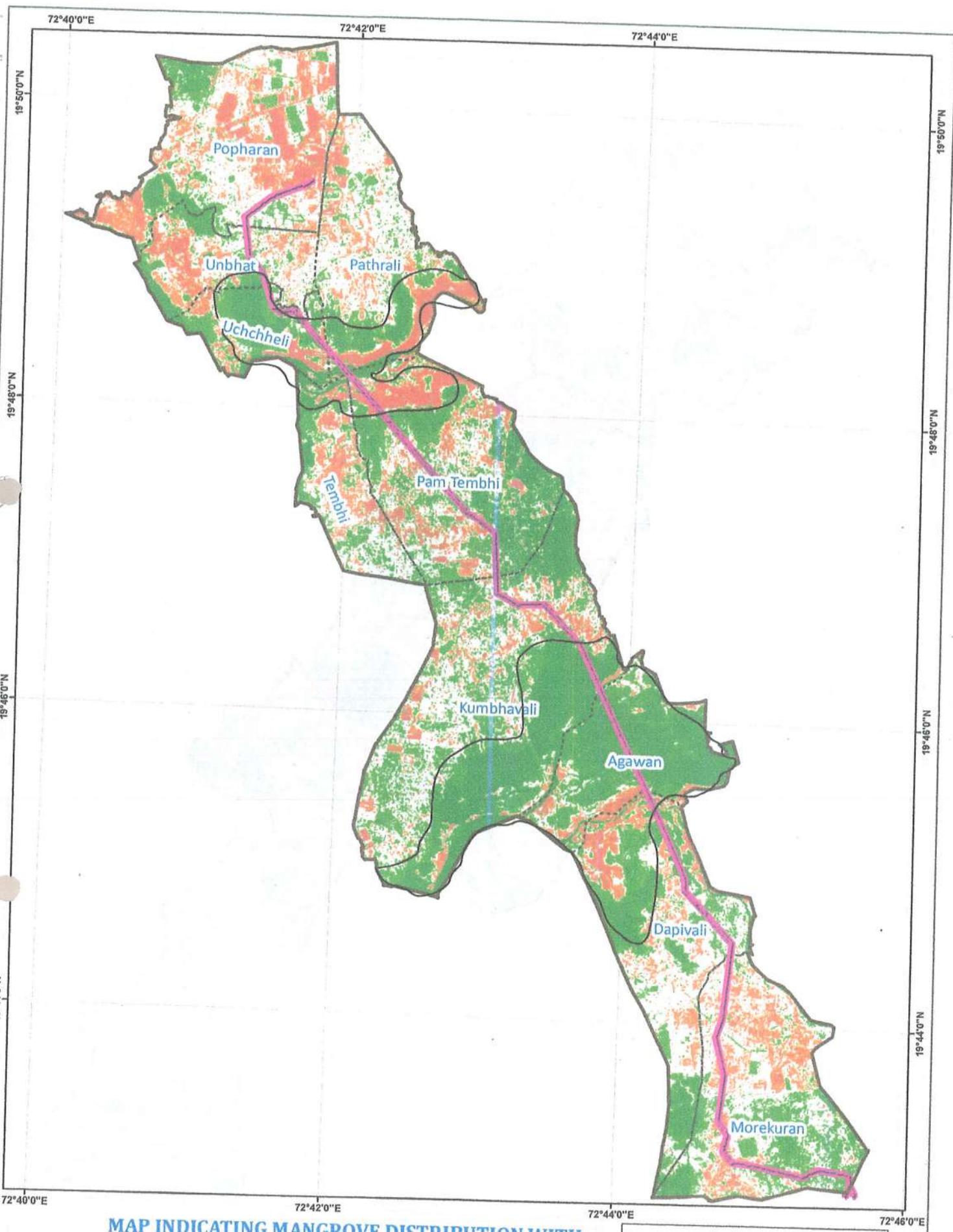
There is no underwood or undergrowth. In the younger plantations there is some ground cover consisting of herbs and grasses. But in older plantations even this is absent and the ground is covered with the fallen needies of suru trees. Eucalyptus hybrid has been interplanted in Suru plantations raised in 1962-63.

The distribution of mangroves increased from 2020 to 2023. Therefore, in 2019, the distribution of mangrove patches, which was very low, indicated a low soil holding capacity.

However, the rainfall data indicates the scenario in the study area from 2018 to 2023. The graph illustrates the development of soil moisture and soil weightiness, which are crucial for soil conservation management within the study area.

**MAP INDICATING LOCATION OF PROJECT SITE
SOIL CONSERVATION PLAN**



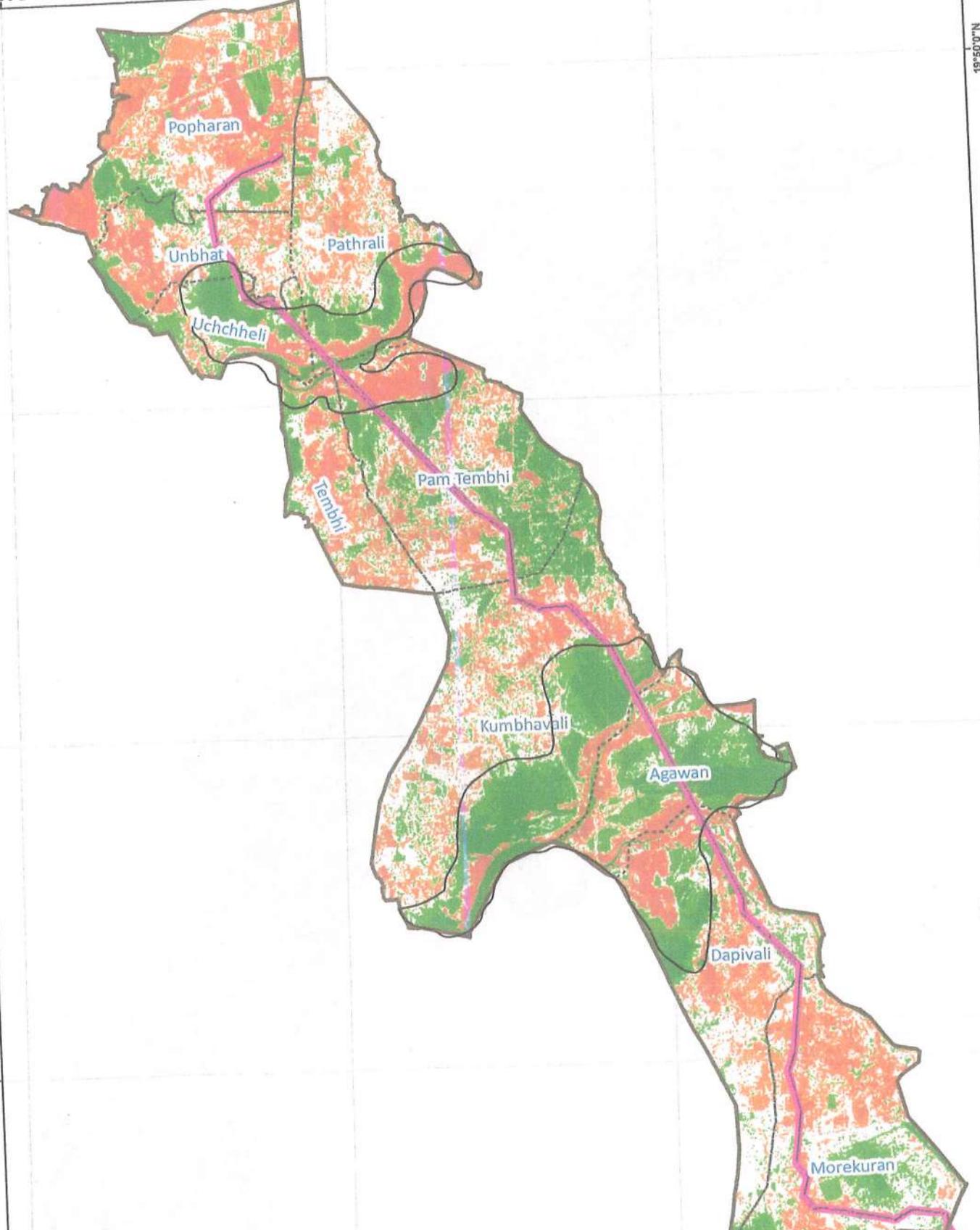


MAP INDICATING MANGROVE DISTRIBUTION WITH HOLDING SOIL IN STUDY AREA

Year - 2019

0 0.75 1.5 3 Kms
SCALE 1:57000

Legend	
Very Low	Very High
Low	Transmission Line
Moderate	Study Area
High	Village Boundary

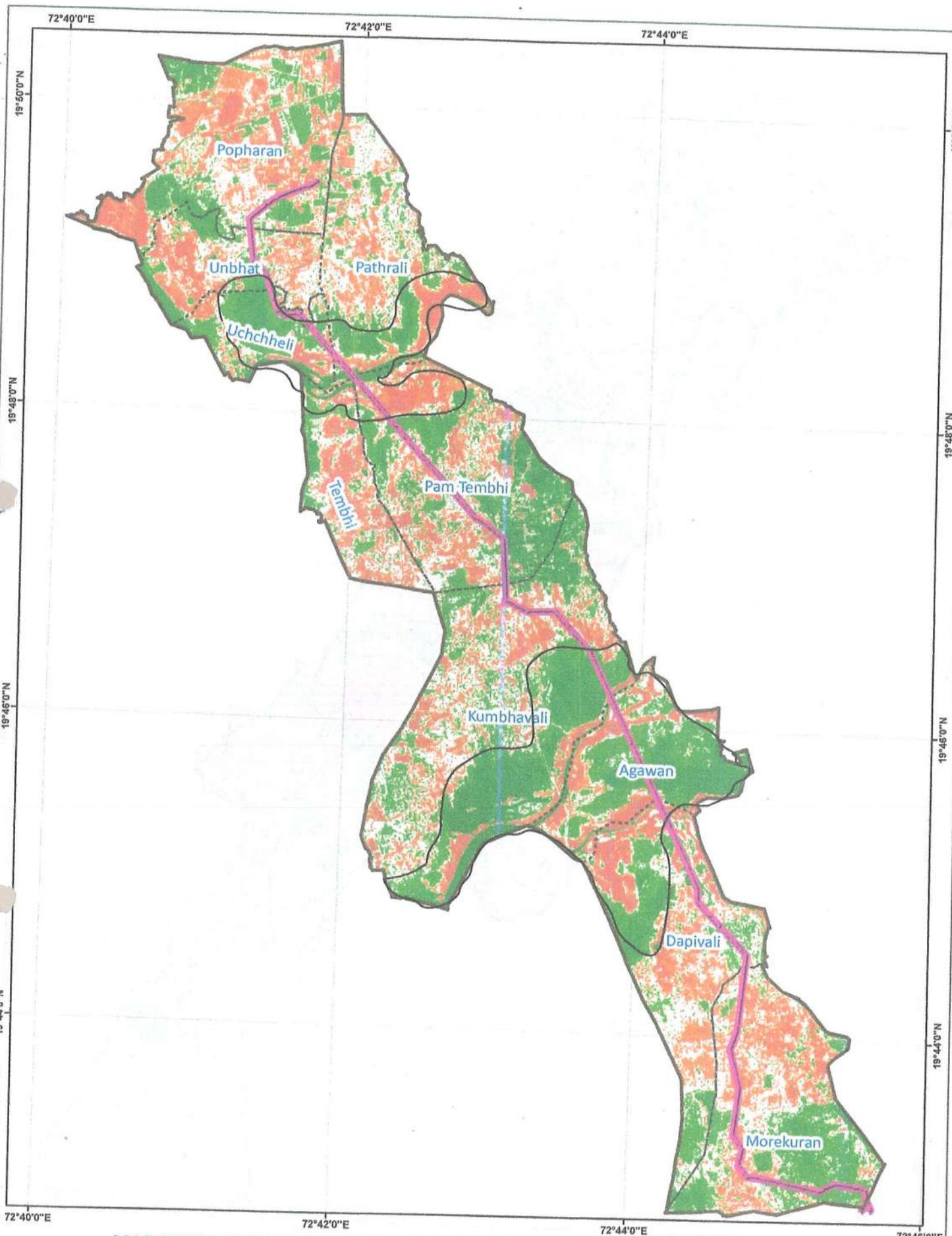


MAP INDICATING MANGROVE DISTRIBUTION WITH HOLDING SOIL IN STUDY AREA

Year - 2020

0 0.75 1.5 3 Kms
SCALE 1:57000

Legend	
Very Low	Very High
Low	Transmission Line
Moderate	Study Area
High	Village Boundary

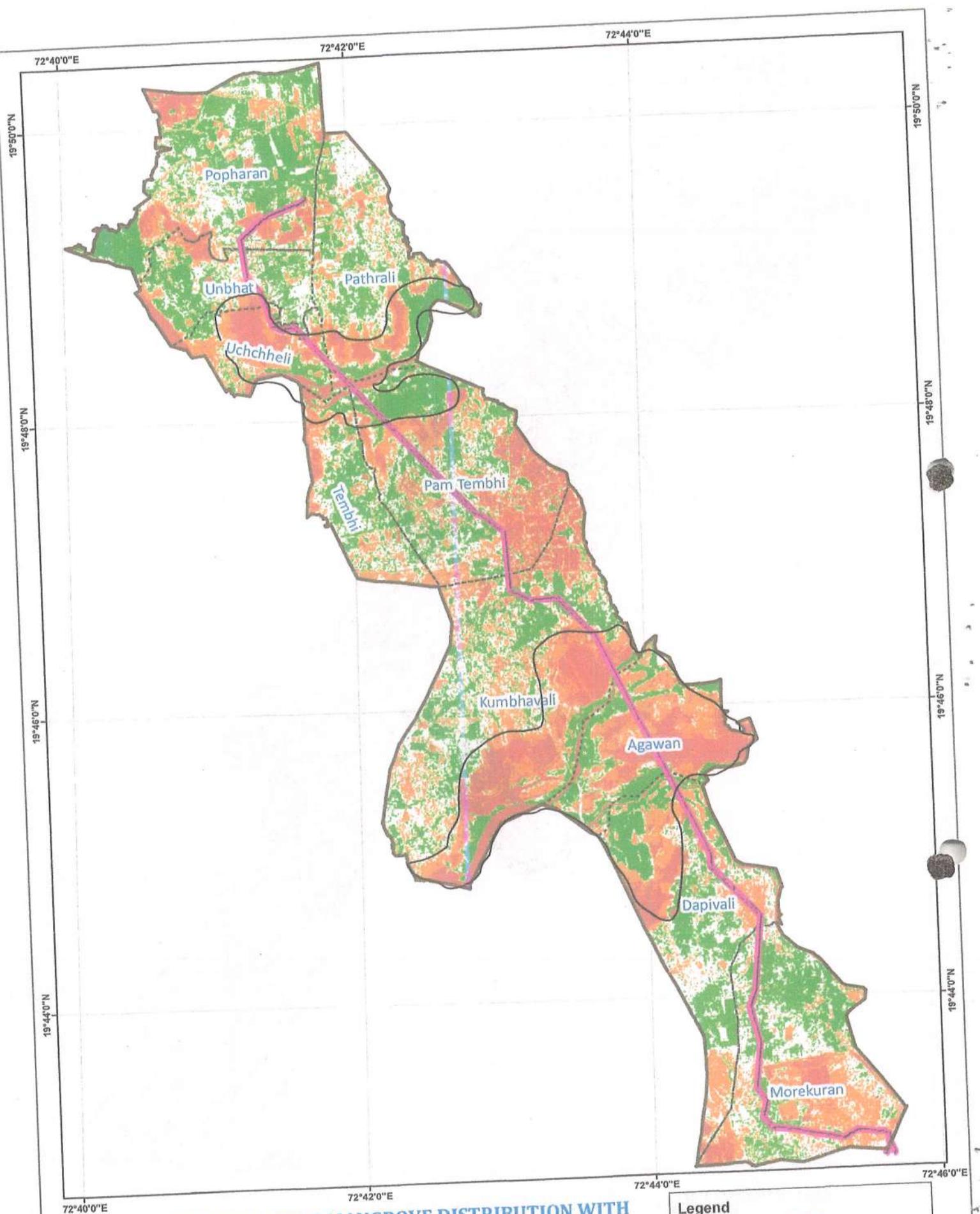


MAP INDICATING MANGROVE DISTRIBUTION WITH HOLDING SOIL IN STUDY AREA

Year - 2021

0 0.75 1.5 3 Kms
SCALE 1:57000

Legend	
Very Low	Very High
Low	Pink Wavy Line
Moderate	Black Solid Line
High	Dashed Line
	Village Boundary

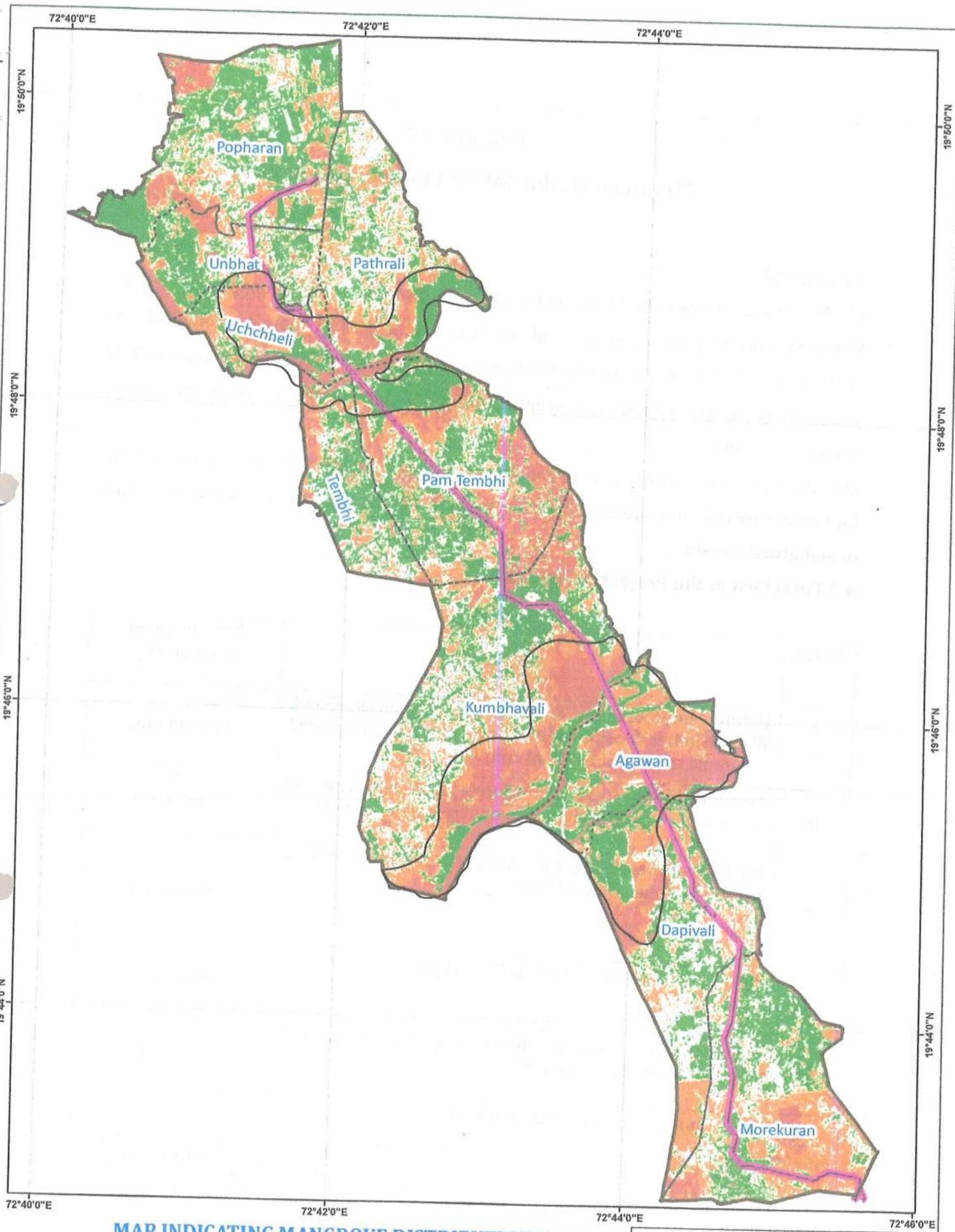


MAP INDICATING MANGROVE DISTRIBUTION WITH HOLDING SOIL IN STUDY AREA

Year - 2022

0 0.75 1.5 3 Kms
SCALE 1:57000

Very Low	Very High
Low	
Moderate	
High	
	Transmission Line
	Study Area
	Village Boundary



MAP INDICATING MANGROVE DISTRIBUTION WITH HOLDING SOIL IN STUDY AREA

Year - 2023

0 0.75 1.5 3 Kms
SCALE 1:57000

Very Low	Very High
Low	
Moderate	
High	
	Transmission Line
	Study Area
	Village Boundary

Chapter - 5

Financial Outlay for Soil Conservation Plan

5.1 General

The Mangrove forests defied very important role in soil conservation of sea shore area. Mangrove forests provide goods and services that are of economic, ecological and environmental values to the people. Environmentally, mangroves offer coastal protection against erosion, storm damage, prevent siltation of adjacent seagrass beds and control floods (FAO 1994).

This study provides a considerable updated knowledge which will help in exploring links for future research among soil properties, vegetation, species composition and structure of mangrove forests.

5.2 Total Cost of the Project: 75.00 Lakh

Sr. No.	Item	Percentage of total outlay
1	Habitat improvement & mitigative measures (Food, Water, Shelter, Movement etc) and measures to reduce/minimize the human-animal conflicts	3750000.00
2	Awareness and Extension (Forest staff will also be invited for various activities to ensure participation)	750000.00
3	Method of Executing the Work (Unworkable Areas, Plantable Areas, Dense Mangrove)	750000.00
4	Nursery Techniques, Planting Technique.	750000.00
5	Administrative Cost for processing inspections etc. (To be deposited in RPACS)	750000.00
6	Miscellaneous including Eco-development.	750000.00
	Total	7500000.00

THE PROPOSED BUDGET FOR INTERVENTION FOR DFO AS PER ACTIVITY FOR SOIL CONSERVATION PLAN

Sr. No.	Name of the activity	Year wise Financial Targets (Rs. In Lacs.)									
		1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year
1	2	3	4	5	6	7	8	9	10	11	12
	MANAGEMENT OF FOOD										
1	Habitat enrichment with plantation of mangrove/ fruit bearing species / fuel & fodder plantation	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	15.00
	Total	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	15.00
	MANAGEMENT OF WATER										
2	Desilting, Renovation & Maintenance of water holes and old ponds	1.50	1.50	1.50	1.50	1.00	0.50	0.50	0.25	0.25	8.75
3	Construction of 3 pond within the study area and maintenance from 2nd year	1.50	1.50	1.00	0.50	0.50	0.50	0.50	0.25	0.25	7.00
4	Soil & moisture conservation measures	1.00	1.00	1.00	1.00	0.50	0.50	0.25	0.25	0.25	6.75
	Total	4.00	4.00	3.5	3.00	2.5	1.50	1.50	1.00	0.75	22.50
	ADMINISTRATIVE COST FOR PROCESSING INSPECTIONS										
5	Staff Expenses	1.00	1.00	1.00	1.00	0	0	0	0	0	5.00
6	Administrative Expenses	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	2.50
	Total	1.25	1.25	1.25	1.25	0.25	0.25	0.25	0.25	0.25	7.50
	ECO DEVELOPMENT										
7	Eco- development work in different villages (Signages, Information Board, Workshop etc)	0.50	0.50	0.25	0.25	0.25	0.25	0.25	0.25	0.25	3.25
8	Veterinary health care camp including vaccination	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	2.25
9	Human health care camp	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0	0	2.00
	Total	1.00	1.00	0.75	0.75	0.75	0.75	0.75	0.50	0.25	7.50

METHOD OF EXECUTING THE WORK							
11 Unworkable Areas, Plantable Areas, Dense Mangrove	1.5	1.5	0.50	0.50	0.50	0.25	0
12 Survey and demarcation of soil conservation area	0.25	0.25	0.25	0.25	0.25	0	0
Total	1.75	1.75	0.75	0.75	0.75	0.25	0
MANGROVE NURSERY AND PLANTING TECHNIQUE							
13 To raise mangrove species in the nursery, perforated polybags will be filled with sandy/silty clay and arranged in the beds.	0.50	0.50	0.50	0.50	0.50	0.50	0.50
14 Increase of Mangrove plantation in the areas of high salinity species	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Total	0.75	0.75	0.75	0.75	0.75	0.75	0.75
MISCELLANEOUS ACTIVITY							
15 Preparation of Microplan of 4 villages in in study area for soil conservation	0.50	0.50	0.50	0.50	0.25	0.25	0.25
16 Watch Tower within project area	0.50	0.50	0.00	0	0	0	0
17 workshop and traning about mangrove plantation	0.50	0.50	0.25	0.25	0.25	0.25	0
Total	1.50	1.50	0.75	0.75	0.50	0.50	0.25
Total	11.75	11.75	9.50	8.75	8.25	6.00	7.50


Executive Engineers
M.S.E.I. Co. Ltd.
G.H.V. Projects Dn. Kalyan


Dy. Conservator of Forests
Dehnu

Chapter - 6

Conclusion

The current knowledge on physico-chemical properties of soil, soil nutrition, ecological relationship of soil and vegetation and relationship of soil with species composition and structure of mangrove forests in tropical mangrove environment is reviewed and discussed. Large differences occur between mangrove forests with respect to soil pH, salinity, bulk density, CEC, nutrients, carbon and organic matter contents of the mangrove soils. Recent findings suggest that different soil properties influence the vegetation, species composition and structure of mangrove forests.

In recent years, a considerable research results on mangrove soils are available to improve our knowledge, but there are still significant gaps and shortcomings. These are, therefore, emphasized and relevant research directions are needed. This study provides a considerable updated knowledge which will help in exploring links for future research among soil properties, vegetation, species composition and structure of mangrove forests.

The traditional mangrove ecosystem was by and large, self contained following subsistence production, but now it is closely related to the market. The changing land use has drastically affected the mangrove ecosystem. The high returns from high tech aquaculture especially shrimp farming has led to rather quick transformation of the mangrove lands. Many people sold out their mangrove lands to big investors not realizing its environmental and social values. Decline in area under mangrove ecosystem continues in an unconcealed manner due to increase of population, industrialization and implementation of developmental activities. Mangrove afforestation initiative is yet to make a successful leap in the State. Socially, afforestation programme would be benefiting people living in coastal areas in terms of protection, environmental services and support for livelihood.

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.12

With reference to above, we the project authority, do hereby undertake that, Wherever possible, Dwarf species (preferably medicinal plants) shall be raised under the transmission line at the project cost.

yogeshpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

AGENCY COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
Location.	MAHARASHTRA
Address.	O/O THE EXECUTIVE ENGINEER, MSETCL, EHV CONSTRUCTION DIVISION, KALYANThané
Amount(in Rs)	87086734/-

Amount in Words :Eight Crore Seventy Lakh Eighty-Six Thousand Seven Hundred and Thirty-Four Rupees Only

NEFT/RTGS to be made as per following details:

Beneficiary Name:	MAHARASHTRA CAMPA
IFSC Code:	UBIN0996335
Pay to Account No.	1507864116830152 Valid only for this challan amount.
Bank Name & Address:	Union Bank Of India FCS Centre, 21/1, III Floor, Jelitta Towers, Mission Road, Bengaluru-560027

- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

BANK COPY



NEFT / RTGS CHALLAN for CAMPA Funds

Date : 19-08-2024

Agency Name.	MAHATRANSCO
Application No.	64116830152
MoEF/SG File No.	FC-II/MH-225/2023-NGP
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- This Challan is strictly to be used for making payment to CAMPA by NEFT/RTGS only

Note: After making the required payment through challan, if the payment status has not been updated even after 7 working days, then kindly mail a copy of your challan with transaction date and reference id to Email: fcsblr@unionbankofindia.bank , epurse@unionbankofindia.bank,
ubin0903710@unionbankofindia.bank

Yogeswaran
Executive Engineer
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

65	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820291 / MAHARASHTRA CAMPA	RTGS INB: CRG4655243	TRANSFER TO 999911044308 / MAHARASHTRA CAMPA	99922 10.00.000
66	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820292 / MAHARASHTRA CAMPA	RTGS INB: CRG4655310	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
67	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820293 / MAHARASHTRA CAMPA	RTGS INB: CRG46554081	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
68	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820428 / MAHARASHTRA CAMPA	RTGS INB: CRG46553977	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA	99922 10.00.000
69	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820428 / MAHARASHTRA CAMPA	RTGS INB: CRG46553952	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
70	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042802984 / MAHARASHTRA CAMPA	RTGS INB: CRG46553924	TRANSFER TO 45991108044305 / MAHARASHTRA CAMPA	99922 10.00.000
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76	20-08-2024	20-08-2024	TO TRANSFER-INB NEFT UTR NO: SBINR24233751373 / MAHARASHTRA CAMPA	RTGS INB: CRG46553823	TRANSFER TO 45991108044309 / MAHARASHTRA CAMPA	99922 10.00.000
77	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804590 / MAHARASHTRA CAMPA	RTGS INB: CRG4655920	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
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79	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804592 / MAHARASHTRA CAMPA	RTGS INB: CRG4655508	TRANSFER TO 4599112044304 / MAHARASHTRA CAMPA	99922 10.00.000
80	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804593 / MAHARASHTRA CAMPA	RTGS INB: CRG4655281	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10.00.000
81	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804594 / MAHARASHTRA CAMPA	RTGS INB: CRG4655060	TRANSFER TO 45991108044309 / MAHARASHTRA CAMPA	99922 10.00.000
82	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804595 / MAHARASHTRA CAMPA	RTGS INB: CRG4655035	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
83	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR120240820428045951 / MAHARASHTRA CAMPA	RTGS INB: CRG4655015	TRANSFER TO 4599111044305 / MAHARASHTRA CAMPA	99922 10.00.000
84	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804596 / MAHARASHTRA CAMPA	RTGS INB: CRG4654983	TRANSFER TO 45991108044308 / MAHARASHTRA CAMPA	99922 10.00.000
85	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804597 / MAHARASHTRA CAMPA	RTGS INB: CRG4655174	TRANSFER TO 4599113044308 / MAHARASHTRA CAMPA	99922 10.00.000
86	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804598 / MAHARASHTRA CAMPA	RTGS INB: CRG4655156	TRANSFER TO 45991108044309 / MAHARASHTRA CAMPA	99922 10.00.000
87	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804599 / MAHARASHTRA CAMPA	RTGS INB: CRG4655884	TRANSFER TO 45991108044305 / MAHARASHTRA CAMPA	99922 10.00.000
88	20-08-2024	20-08-2024	TO TRANSFER-INB RTGS UTR NO: SBINR12024082042804600 / MAHARASHTRA CAMPA			\$70,86,734

Yachane
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalvad

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.13

With reference to above, we the project authority, do hereby undertake that, The State Government shall issue working permission only after submission of wild life conservation plan and SMC plans to the Regional Office and compliance to all such condition (s) to issue such working permission.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalyan

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.14

With reference to above, we the project authority, do hereby undertake that, The User Agency shall ensure to maintain required RoW in the entire alignment as per the standard RoW required for 132 KV transmission line.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.15

With reference to above, we the project authority, do hereby undertake that, UA shall provide Bird reflectors to be installed at technically suitable distance at the cost of User Agency.

Yogesh Pachpande
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EHV Project division
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

UNDERTAKING

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Condition No.16

With reference to above, we the project authority, do hereby undertake that the State / UA shall ensure all other approvals / permission under relevant rules/ regulation, if any required prior to commencement of the project work.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.

*Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan*

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.17

With reference to above, we the project authority, do hereby undertake that the Proper labour camps shall be constructed in the non-forest area and in any case, labour camp shall not be made within the RF area.

(Signature)
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
(Signature)
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

UNDERTAKING

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Condition No.18

With reference to above, we the project authority, do hereby undertake that, before issuing of working permission or diversion order as the case may be, the State Government shall ensure settlement of rights under I 1 the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 (2 of 2007) and ensure required certificate from the competent authority in the prescribed format.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalvan

UNDERTAKING

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Condition No.19

With reference to above, we the project authority, do hereby undertake that, the User Agency shall obtain Environmental Clearance as per the provisions of the Environmental (Protection) Act, 1986. if applicable.

yogesh
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.20

With reference to above, we the project authority, do hereby undertake that, the Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourers after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel.

yogesh pachpande
(Yogesh pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.21

With reference to above, we the project authority, do hereby undertake that No additional or new path will be constructed inside the forest area for the transportation of construction materials for execution of the project work.

Yogesh Pachpande
(Yogesh pachpande)
Executive Engineer
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dr. Kalvan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

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Condition No.22

With reference to above, we the project authority, do hereby undertake that, The forest land proposed to be diverted shall under no circumstances be transferred or sublet to any other agencies. Department or person without prior approval of Govt. of India.

(Yogesh pachpande)
(Yogesh pachpande)
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.23

With reference to above, we the project authority, do hereby undertake that, The total forest area utilized for the project shall not exceed 20.5983 ha. and the forest area diverted shall not be used for any purpose other than those shown in the diversion proposal. The User Agency shall furnish an undertaking to this effect.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
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Executive Engineers
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E.H.V. Projects Dn. Kalva

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KV LILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.24

With reference to above, we the project authority, do hereby undertake that The User Agency and the State Government shall ensure compliance to the all acts, rules, regulation and guidelines of the Ministry, for the time being in force, as applicable to the subject project.

Yogesh Pachpande
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Executive Engineers
M.S.E.T. Co. Ltd.
E.H.V. Projects Dn. Kalva

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.25

With reference to above, we the project authority, do hereby undertake that, Any other condition that the Regional Office, Nagpur may impose from time to time in the interest of afforestation, conservation and management of flora and fauna in the area shall be complied by the User Agency.

Yogesh Pachpande
(Yogesh Pachpande)
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Dn. Kalva

UNDERTAKING

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Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.26

With reference to above, we the project authority, do hereby undertake that, in the event of failure to comply with any of the above conditions the User Agency is liable for penal action as per the rules / guidelines issued under Van(Sanrakshan Eevam Samvardhan) Adhiniyam, 1980.

Yogesh Pachpande
(Yogesh Pachpande)
Executive Engineer
EHV Project division
MSETCL, Kalyan.
Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Div. Kalyan

UNDERTAKING

Diversion of 20.5983 ha. Forest land in favour of MHSETCL, Kalyan for laying of 132 KVLILO DIC Transmission Line on 132 KV D/C Boisar Dahanu (MIDC) Transmission Line for 220 KV Palghar Sub Station passing through Palghar district in the State of Maharashtra. - FPIMH/TRANS/116830/2020- in principle approval - regarding.

Ref: - DDGF (central) MoEF& CC, Regional office Nagpur vide letter no. FC-II/MH-225/2023-NGP/3165 dated 06.05.2024.

Condition No.27

With reference to above, we the project authority, do hereby undertake that, the State Government shall process and submit compliance report on the above conditions through online (<https://parivesh.nic.in/>).

Yogesh Pachpande
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Executive Engineer
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Executive Engineers
M.S.E.I. Co. Ltd.
E.H.V. Projects Da. Kalyan