

Full Title of the project: 66 KV Overhead Transmission line in SEZ by MPSEZ Utilities Limited.

Annexure-19

Compensatory Afforestation Scheme for double degraded area

Application for diversion of 0.40 Ha. of Forest land for installation of 66 KV Overhead Transmission line by DISCOM in their licensee area in Mundra SEZ, Ta.Mundra,Dist.Kutch(Gujarat).OnlineNo.FP/GJ/TRANS/46241/2019,dt.13/06/2020 under Forest Conservation Act-1980 in General Manager-Operation, MPSEZ Utilities Limited area in Kutch dist. of Gujarat State.

Detailed scheme of Compensatory Afforestation for degraded area 1.00 ha. to be carried out in lieu of 0.4 ha. of forest land to be diverted in Kutch district.

1. Details of degraded land.

Village	Bocha
Taluka	Mundra
Range	Mundra
District	Kutch
Division	Kutch East
Block/ Patal, Compartment No.	25/pt
Area to be afforested	1.00 Ha.
Working circle	

2. Description of Area.

Soil type	Black & Starey
Topography	Plain
Slope	Medium & Gentle
Whether the area is bearing any root stock of Vegetation	Yes

3. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

4. Schedule of Plantation Programme:-

(i) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Kutch East Division as early as possible after the proposal is formally approved.
(ii) Compensatory Afforestation will be done in 1.00 ha. area. The total afforestation cost will be about Rs.4,74,756/- General Manager-Operation, MPSEZ Utilities Limited. has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

5. Technical Details:-

Technical details of Compensatory Afforestation are as Follows:

Sr. No.	Details	Specifications																						
a	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 324.50 per day.																						
b	Spacement	3 X 3 mtr., 1111 plants per ha.																						
c	Species to be planted (No. of plants per ha.)	<table><tr><td>Gundi</td><td>211</td><td>65 cm</td><td rowspan="7">Minimum planting height will be 75 cm. at the time of planting. However it will vary for different species.</td></tr><tr><td>Neem</td><td>250</td><td>75 cm</td></tr><tr><td>Pilu</td><td>225</td><td>50 cm</td></tr><tr><td>Khijado</td><td>150</td><td>65 cm</td></tr><tr><td>DeshiBaval</td><td>225</td><td>65 cm</td></tr><tr><td>Chhini Lai (Tamarixaphylla)</td><td>50</td><td>65 cm</td></tr><tr><td>Total</td><td>1111</td><td></td></tr></table>	Gundi	211	65 cm	Minimum planting height will be 75 cm. at the time of planting. However it will vary for different species.	Neem	250	75 cm	Pilu	225	50 cm	Khijado	150	65 cm	DeshiBaval	225	65 cm	Chhini Lai (Tamarixaphylla)	50	65 cm	Total	1111	
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Total	1111																							
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.																						
e	Site Preparation	The malformed rootstock present in the area will be cutback & the site will be cleaned in the month of Nov-Dec. Alignment & pit digging 45 x 45 x 45 cms. will be carried out in the month of Dec-Jan.																						
f	Plantation Method	Polypot raised plants will be planted during monsoon.																						
g	Soil & Moisture Conservation Works	(i) Pucca structure like Check dam, check wall, retaining wall Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha.will be dug along the contour line. the dug out soil will be heaped on the down ward side. Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plants ...etc. will be planted during monsoon in the upper side of nala as per suitability.																						
h	Protection Trench	Barbed wire fencing, Seed sowing And planting of cuttings of Ipomea/Glarcidia along the fence																						
i	Silvicultural Operations	1 st year three weeding soil working, Support watering will be provided if needed. 2 nd year two weeding soil working.																						

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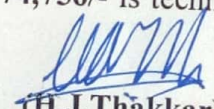
		3 rd year one weeding soil working.
j	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent silvicultural Operation	Cleaning, cutbacks, thinning etc. (as per species specific requirement) will be carried out at the age as per prescribed in the working plan.
l	Proposed monitoring mechanism	<p>(i) A plantation register is to be maintained.</p> <p>(ii) Monitoring is to be done as per the following norms.</p> <p>Forester – 100%</p> <p>RFO – 100%</p> <p>ACF – 20%</p> <p>DCF – 10%</p> <p>(iii) The results of survival etc. are maintained in the plantation register on a periodical basis, which is updated at the end of September and March each year.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) At the end of maintenance period, the area is aimed at full stocking and pole crop girth for all the species, except bamboo.</p>
m	Regeneration cleaning	Cut-back and promotion of root suckers.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest land.



(H.J. Thakkar)

Dy Conservator of Forest
Kachchh East Division, Bhuj.

The Compensatory Afforestation scheme at the cost of **Rs.4, 74,756/-** is technically and administrative approved by the undersigned.



(H.J. Thakkar)

Dy Conservator of Forest
Kachchh East Division, Bhuj.

Compensatory Afforestation Scheme for Non-Forest Areas to be carried out in field of forest land to be proposal for Application for diversion of 0.40 Ha. of Forest land for installation of 66 KV Overhead Transmission line by DISCOM in their licensee area in Mundra SEZ, Ta.Mundra, Dist.Kutch(Gujarat). OnlineNo.FP/GJ/TRANS/ 46241/2019, dt.13/06/2020 under Forest Conservation Act-1980 in General Manager-Operation, MPSEZ Utilities Limited area in Kutch dist. of Gujarat State.

Daily wages Rs.			324.5	
Spacemts = 3 m x 3 m				
1111 seedling / Ha				
1st year replacement 10 % = 111 seedling /ha				
2nd year replacement 20 % = 111+111 seedling /ha				
3rd year replacement 10 % = 111 seedling /ha				
Total Seedlings = 1333 seedling /ha				
Polypot size : 15 cm x 25 cm x 200				
Item of work	Qty.	Labour	Material	Total
1	2	3	4	5
0 year				
Nursery				
(a) Cost of soil, ,manure, seeds, water, fertilizier,insecticides, implements, rent of lands. Shade, etc. (including 10 % for casualty replacement)	1222	0	1913	1913
(b) labour : Preparation of beds,filling and arranging of bags,showing of seeds,watering shifting,weeding etc.	1222	4681	243	4924
(c) Seedling cost for casualty replacement in one year old (20%)	222	1479	441	1920
(d) Seedling cost for casualty replacement in two year old (10%)	111	741	221	962
Total		6901	2818	9719
2. Area Development (Land Preparation)				
(a) Survey, cutback and promotion of root suckers		3517	0	3517
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	10156	0	10156
Total		13673	0	13673
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0	10360	10360
Total		0	10360	10360
3. SMC Works				
(a) Check wall/ retaining wall /checkdem (all pucca only)	L.S.	12495	24804	37299
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	9510	0	9510
Total		22005	24804	46809
4. Protection				
(a) Barbed wire fencing	L.S.	3730	37299	41029
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence		1160	499	1659
Total		4890	37798	42688
Sub Total of 0 year		47469	75780	123249
1st Year				
(a) Maintenance of nursery (April to June)	1222	3591	359	3950
(b) Transport of seedling for plantation	1111	19439	406	19845
(c) Planting with khamna of Min 1 m dia	1111	6054	0	6054
(d)Transport of seediling for casualty replacement	111	210	46	256
(e) 3 weeding cum soil working	1111	24654	0	24654
(f) Support watering 5 times @ 3.25		15085	21647	36732
(g) Protection / tending operation		4854	0	4854
(h) Tending to natural vegetation		1220	0	1220
(i) Contingency		0	1220	1220
Total for 1st year		75107	23678	98785

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2nd Year				
(a) 2 weeding & soil working		13244	0	13244
(b) 20 % Casually replcement, transport and planting	111+111	221	1097	1318
(c) Natural fertilizer (neem cake / caster cake) etc.	Rs.5/ plant	0	12243	12243
(d) Support watering 3 times @ 3.25		9803	14070	23873
(e) Protection / tending operation		5290	0	5290
Total for 2nd year		28558	27410	55968
3rd Year				
(a) 2 weeding & soil working		13980	0	13980
(b) 10 % Casually replcement, transport and planting	111	118	592	710
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0	13421	13421
(d) Support watering 1 times @ 3.25		3520	5050	8570
(e) Protection & maintenance of fencing / tending operation	L.S.	9140	0	9140
Total for 3rd year		26758	19063	45821
4thYear				
(a) 1 weeding & soil working		7719	0	7719
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	7630	0	7630
Total for 4th year		15349	0	15349
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8139	0	8139
Total for 5th year		8139	0	8139
6thYear				
Protection & maintenance of fencing/ tending operation	L.S.	8647	0	8647
Total for 6th year		8647	0	8647
7thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9156	0	9156
Total for 7th year		9156	0	9156
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	9663	0	9663
Total for 8th year		9663	0	9663
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10172	0	10172
Total for 9th year		10172	0	10172
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	10681	0	10681
Total for 10th year		10681	0	10681
SUB TOTAL :		249699	145931	395630.0
The Cost of Supervision/subsequential silvicultureal Operations	20%	49940	29186	79126
		299639	175117	474756

Note :-

- (1) Seed sowing along fencing towards the inner side, and also in the plot.
- (2) Planting of cutting of ipomea//Glarcidia along the fencing towards outer side.

Compensatory afforestation will be done in 1.00 ha. Area.

Total Cost Rs. :4,74,756/-


Dy Conservator of Forest
Kachchh East Division, Bhuj.