## Compensary Afforestation Scheme for double degraded area

Diversion of 3.8089 ha forest land under section-2 of the forest (conservation) act 1980 in favor of M/s Adani Green Energy (MP) Limited for construction of 220KV transmission line from Ratadiya PS to Bhuj PS 220KV D/C line in Kutch district of Gujarat – Submission of Forest proposal Reg.

Detailed scheme of Compensatory Afforestation for degraded area 8.00 ha. to be carried out in lieu of 3.8089 ha. of Unclass(Sec.-4) forest land to be diverted in Kutch district.

#### 1. Details of degraded land.

Village	Medisar
Taluka	Nakhatrana
Range	Nakhatrana-East
District	Kutch
Division	Kutch-West
Block/ Patal, Compartment No.	Tra.Sr.no. (22/ Pt.)
Area to be afforested	8.00 ha.
Working circle	

ANNE

2. Description of Area.

Soil type	Black cotton with Murom
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-West Division as early as possible after the proposal is formally approved.
- (ii) Compensatory Afforestation will be done in 8.00 ha. area. The total afforestation cost will be about Rs. 34,41,027 /- M/s Adani Green Energy(MP) Ltd., Ahmedabad-Gujarat 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.	Details	Specifications				
No.	General Details	The C.A. will be taken under Compensatory Afforestation for double land on degraded Forest Areas. The prevailing wage rate is 310.40 per day.				
b	Spacement	3 X 3 mtr., 1111 plants per ha.				
c	Species to be planted		211			
	(No. of plants per ha.)	Gundi	211			
	8.0	Gugal	250	Minimum planting		
		Pilu	225	height will be 30		
		Khijado	150	cm. at the time of planting. However		
	٠.	Desi baval	225	it will vary for		
		Chhini Lai (Tamarix aphylla)	50	different species.		
		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-				
	1.,	Jan.	carried of	at in the month of Bee		
f	Plantation Method	Polypot raised plants will be planted	during m	ionsoon.		
g	Soil & Moisture	(i) Pucca structure like Check d	am, check	wall, retaining wall		
	Conservation Works	(ii) Contour trenches 2.00 x 0.43				
	No.	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 Pillu, Desi bavaletc. will be planted				
		during monsoon in the upper	r side of r	nala as per suitability.		
h	Protection Trench	Protection trench, Seed sowing And planting of cuttings of Ipomea/Glarcidia along the trench.				
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed.				
	3	2 <sup>nd</sup> year two weeding soil working.				
j	Maintenance	3 <sup>rd</sup> year one weeding soil working.  It is proposed to maintain the Plant	ation un t	to ten years.		
		proposed to maintain the Hall	acton up t	to ton jours.		
k	Subsequent	Cleaning, cutbacks, thinning etc. (a				
D. View Surve	Silvicualtural Operation	will be carried out at the age as per	prescribe	ed in the working plan.		

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	Proposed monitoring	(i) A plantation register is to be maintained.
	mechanism	(ii) Monitoring is to be done as per the following norms.  Forester - 100%  RFO - 100%  ACF - 20%  DCF - 10%  (iii) The results of survival etc. are maintained in the plantation
		register on a periodical basis, which is updated at the end of
		November and March each year.
		(iv) The collar girth is also to be reordered at the end of each year.
	,	(v) At the end of maintenance period, the area is aimed at full
		stocking and pole crop girth for all the species, except bamboo.
		(vi) Bamboo would be of the harvestable size by the end of 4th year.
		(vii)Third party monitoring mechanism is also in the State and if the
	١.	plantation is in the sample selected, it will also be monitored by
		the third party selected for this purpose.
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.

(B. J. Asari)

Dy Conservator of Forest

Kachchh West Division, Bhuj

The Compensatory Afforestation scheme at the cost of Rs. 34,41,027 I- is technically and administrative approved by the undersigned.

> Dy Conservator of Forest Kachchh West Division, Bhuj

	_		T	TE	1		_
	Diversion of 3.8089 ha forest land under section-2 of the forest (conservation) act 1980 in favor of M/s Adani Green Energy (MP) Limited for construction of 220KV transmission line from Ratadiya PS to Bhuj PS 220KV D/C line in Kutch district of Gujarat – Submission of Forest proposal Reg. (Proposed diversion area: 3.8089 ha.)			20% Add Grand Total	18	4865.20 280997.94 56199.59 337197.53	9730.40 10216.92 358440.29 71688.06 430128.34
	struction eg.	07-70		20% Add	11	56199.59	71688.06
	ited for cor roposal Re	Year 2019		Total	91	280997.94	358440.29
	89 ha forest land under section-2 of the forest (conservation) act 1980 in favor of M/s Adani Green Energy (MP) Limited for const transmission line from Ratadiya PS to Bhuj PS 220KV D/C line in Kutch district of Gujarat – Submission of Forest proposal Reg. (Proposed diversion area: 3.8089 ha.)	Increased by 10% year with 20 % add Supervision charge of Rate Structure for Compensatory Afforestation for the Year 2019-20		5th Year 6th Year 7th Year 8th Year 9th Year 10th Year	IS		10216.92
	n Energy ( bmission	(fforestati		9th Year	14	4865.20 4865.20	9730.40
	dani Gree jarat – Su	ensatory A		8th Year	12	4865.20	8757.36 9243.88
	of M/s A rict of Gu 89 ha.)	or Compe		7th Year	12	4865.20	8757.36
0:- 19	conservation) act 1980 in favor of M/s 220KV D/C line in Kutch district of (Proposed diversion area: 3.8089 ha.)	tructure j		6th Year	=	9686.61 4865.20 4865.20	14529.92 7784.32 8270.84
Checklist No :- 19	n) act 198 C line in I liversion a	of Rate S			10	4865.20	7784.32
Ch	onservatio 20KV D/o roposed d	n charge		4th Year	6		
	forest (co Bhuj PS 2 (P	upervisio		3rd Year	8	29859.38	41803.13
	n-2 of the iya PS to ]	8 add S		1st Year 2nd Year 3rd Year	7	41081.78	53406.31
	ıder sectio om Ratadi	ar with 20		1st Year	9	64003.39	76804.07
	est land ur sion line fr	у 10% уе	1	0 Year	5	107175.58	117893.14
	3089 ha for transmis	ncreased	310.40 /-	Rate/ha.	4	A Normal Rate 107175.58 64003.39 41081.78 29859.38	Increased by 117893.14 76804.07 53406.31 41803.13
	f3.				3	<	м
	iversion o		Daily Wage: Rs.	MODEL No.	2	MODEL No-3	Annexure-4 (1)
_	П		Da	Sr. No.	-	-	2

Date :- 03 / 03 / 2020 Place :- Bhuj - Kutch

(B.J.Asari)
Dy. Conservator of Forest
Kutch West Division, Bhuj

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Diversion of 3.8089 ha forest land under section-2 of the forest (conservation) act 1980 in favor of M/s Adani Green Energy (MP) Limited for construction of 220KV transmission line from Ratadiya PS to Bhuj PS 220KV D/C line in Kutch district of Gujarat – Submission of Forest proposal Reg. (Proposed diversion area: 3.8089 ha.)

			\all.	
Spacements = 3 m x 3 m		-	aily wages l	Rs. 310.40 /
and anodling / Ha				
the ar replacement 10 % = 111 seedling /ha				
tweet replacement 20 % = 111+111 seedling /ha				
the property of the second of				
Seedlings = 1333 seedling /na				
Polypot size: 15 cm x 25 cm x 200				
Item of work	Qty.	Labour	Material	
1	2	3		Total
0 year			4	5
Nursen	1			
(a) Cost of soil, ,manure, seeds, water, fartillizer, insecticides, implements, rent of lands. Shade, etc. (including 10 % for casuality replacement)	1222	0.00	1663.90	1663.90
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4070.55	210.82	4281.37
(c) Seedling cost for casuality replacement in one year old (20%)	222	1286.04	384.35	1670.39
(d) Seedling cost for casuality replacement in two year old (10%)	111	643.83	191.36	835.19
Total		6000.42	2450.40	
2. Area Development ( Land Preparation )		6000.42	2450.43	8450.85
(a) Survey, cutback and promotion of root suckers		3058.59	0.00	3058.59
(b) Aligment and digging of pits 0.45 X 0.45 X 0.45	1111@ 6.00	8831.97	0.00	8831.97
Total		11890.56	0.00	11890.56
(a) Natural fertilizer (Neem cake/ Castor cake)	1111 @ 5.00	0.00	9008.74	9008.74
Total	1111 @ 0.00			
3. SMC Works		0.00	9008.74	9008.74
(a) Check wall/ retaining wall /checkdem (all pucca only)				
	L.S.	10865.62	21569.07	32434.69
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.17.00/rmt (300 trench)	600 rmt.	8270.85	0.00	8270.85
Total		19136.47	21569.07	40705.54
4. Protection				10100.0-
(a) Barbed wire fencing	L.S.	3243.47	32434.70	35678.17
(b) Seed sowing and planting of cuttings of Ipomea/ Glaricidia along the fence	2.0.	1008.72	433.00	1441.72
votal		4050.40	20007 70	
Sub Total of 0 year		4252.19	32867.70	37119.89
1st Year		41279.64	65895.94	107175.58
(a) Maintenance of nursery (April to June)	1005	0000.00	005.15	04.5
(b) Transport of seedling for plantation	1222	2862.36	285.43	3147.79
(c) Planting with the	1111	1569.84	324.35	1894.19
(c) Planting with khamna of Min 1 m dia (d)Transport of seediling for casualty replacement (e) 3 weeding cum activities	1111	4826.29	0.00	4826.29
(e) 3 weeding cum soil working	111	167.04	37.30	204.34
working curn soil working	1111	18812.12	0.00	18812.12

(f) Support watering 5 times @ 3.25		12025.16	17255.26	29280.42
(g) Protection / tending operation		3892.16	0.00	3892.16
(h) Tending to natural vegetation		973.04	0.00	973.04
(i) Contigency		0.00	973.04	973.04
Total for 1st year		45128.01	18875.38	
- I Voar			1007 0.30	64003.39
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 20 % Casually replecement, transport and planting	111+111	162.17	807.62	969.79
(c) Natural fertilizer (neem cake / caster cake ) etc.	Rs.5/ plant	0.00	9008.74	9008.74
(d) Support watering 3 times @ 3.25		7213.48	10353.15	17566.63
(e) Protection / tending operation		3892.16	0.00	3892.16
Total for 2nd year		20912.27	20169.51	41081.78
3rd Year				2011-00-00-00-00-00-00-00-00-00-00-00-00-
(a) 2 weeding & soil working		9644.46	0.00	9644.46
(b) 10 % Casually replecement, transport and planting	111	81.09	403.81	484.90
(c) Natural fertilizer, neem cake etc.	Rs.5/ plant	0.00	9008.74	9008.74
(d) Support watering 1 times @ 3.25		2405.03	3451.05	5856.08
(e) Protection & maintenance of fencing / tending operation	L.S.	4865.20	0.00	4865.20
Total for 3rd year		16995.78	12863.60	29859.38
4thYear				
(a) 1 weeding & soil working		4821.41	0.00	4821.41
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	4865.20	0.00	4865.20
Total for 4th year		9686.61	0.00	9686.61
5thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 5th year		4865.20	0.00	4865.20
6thYear		4865.20	0.00	4865.20
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 6th year		4005.20	0.00	4000.20
7thYear Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 7th year	2.0.	4865.20	0.00	4865.20
8thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 8th year		4865.20	0.00	4865.20
9thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 9th year		4865.20	0.00	4865.20
10thYear				
Protection & maintenance of fencing/ tending operation	L.S.	4865.20	0.00	4865.20
Total for 10th year		4865.20	0.00	4865.20
Grand Total :	=	163193.51	117804.43	280997.94

Note :-

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

Dy.Conservator of Forests
Kutch West Division, Bhuj

As per APCCP, Land, Gandhinagar letter dated: 18/11/2019 & 27/11/2019

