

**Annexure - 19****Compensatory Afforestation Scheme for Double Degraded Area**

**Diversion of 226.3223 ha. Forest land of Banni Protected land for construction of 765 KV D/C Transmission line project from Khavda Plant SS of Hybrid Power Park to Pooling Substation (PSS1) of PGCIL at Bhuj-Kutch in favour of Adani Green Energy Thirty ltd., Ahmedabad.**

Detailed scheme of Compensatory Afforestation for 453.00 ha. Degraded forest area to be carried out in lieu of 226.3223 ha. Forest Land to be diverted in Kutch district.

**1. Details of degraded area:**

Village	Baiyavo	Mudhvay
Taluka	Lakhpat	Lakhpat
Range	Dayapar (North)	Dayapar (North)
District	Kutch	Kutch
Division	Kutch (West)	Kutch (West)
Block/ Patal Compartment No.	Survey no.56/pt	Survey no.26/pt
Area to be afforested	290.00 ha.	163.00 ha.
<b>Total</b>	<b>453.00 ha.</b>	

**2. Description of area:**

Soil type	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 forest area would be started by Dy. Conservator of Forest, Kutch West Division, Bhuj as early as possible after the proposal is approved.
(ii) Compensatory Afforestation will be done in 453.00 ha. area. The total afforestation cost will be about <b>Rs.21,72,79,828/-</b> Adani Green Energy Thirty ltd., Ahmedabad 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 Compensatory Afforestation taken for Degraded forest area. The prevailing daily wage rate is Rs.340.20 per/day.									
b	Spacement	3 X 3 mtr., 1111 plants per / ha.									
c	Species to be planted (No. of plants per / ha.)	<table border="1"> <tr> <td>Desi Baval</td><td>444</td><td rowspan="4">Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.</td></tr> <tr> <td>Pilu</td><td>444</td></tr> <tr> <td>Gugal</td><td>223</td></tr> <tr> <td><b>Total</b></td><td><b>1111</b></td></tr> </table>	Desi Baval	444	Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.	Pilu	444	Gugal	223	<b>Total</b>	<b>1111</b>
Desi Baval	444	Minimum planting height will be 30 cm. at the time of planting. However it will vary for different species.									
Pilu	444										
Gugal	223										
<b>Total</b>	<b>1111</b>										
d	Nursery Technique	Nine months old polypot raised plants will be planted at the onset of monsoon.									
e	Site Preparation	Site cleaning of area and 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) SMC structure like check dam, check wall, retaining wall, Van talay, Earthen bund, and Loose boulder. (ii) Contour trenches 2.00 x 0.45 x 0.30, 300 Nos/ha. as per site specific condition will be carried out of Gully plugging & Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Pillu, Desi baval...etc. will be planted during monsoon in the upper side of nala as per suitability.									
h	Protection Trench	Protection trench, Barbed wire fencing Seed showing and planting of cuttings of Desi baval/ Pilu or any local species.									
i	Silvicultural Operations	1 <sup>st</sup> year three weeding soil working, Support watering will be provided if needed. 2 <sup>nd</sup> year two weeding soil working. 3 <sup>rd</sup> 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 November and March each year.</p> <p>(iv) The collar girth is also to be reordered at the end of each year.</p> <p>(v) Third party monitoring mechanism is also in the State and if the plantation is in the sample selected, it will also be monitored by the third party selected for this purpose.</p>
m	Regeneration cleaning	Soil working around natural regeneration.
n	Silviculture & other activities	Only afforestation aimed plantation will be taken up, as the area falls under degraded forest area.

  
 ( Tushar B. Patel )  
 Dy. Conservator of Forests  
 Kutch West Division, Bhuj

The Compensatory Afforestation scheme at the cost of **Rs.21,72,79,828/-** is technically and administrative approved by the undersigned.

  
 Chief Conservator of Forest  
 Kachchh Circle, Bhuj.


**Diversion of 226.3223 ha. Forest land of Banni Protected land for construction of 765 KV D/C Transmission line project from Khavda Plant SS of Hybrid Power Park to Pooling Substation (PSS1) of PGCIL at Bhuj-Kutch in favour of Adani Green Energy Thirty Ltd., Ahmedabad.**

*Increased 10% rate/ year with 20 % add Supervision charge of Rate Structure for Compensatory Afforestation scheme for the Year 2021-22*

**Daily Wages : Rs. 340.20 /-**

Sr. No.	MODEL No.		Rate/ha	0 Year	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year	8th Year	9th Year	10th Year	Total	20% Add	Grand Total
1	2	3	4	5	6	7	8	9	10	11	12	12	14	15	16	17	18
1	MODEL No-3 Annexure-4(1)	A	Normal Rate	123628.69	70167.19	45050.24	32739.06	10616.57	5332.28	5332.28	5332.28	5332.28	5332.28	5332.28	314195.43	62839.09	377034.52
2		B	Increased 10% rate/ year	135991.56	84200.63	58565.31	45834.68	15924.86	8531.65	9064.88	9598.10	10131.33	10664.56	11197.79	399705.35	79941.07	479646.42

Date: 31 / 05 / 2021  
Place: Bhuj - Kutch

  
(Tushar B. Patel)  
Dy. Conservator of Forests  
Kutch West Division, Bhuj

As per JPCET, Land, Conservation letter dated 18/11/2019 & 27/11/2019



## MODEL No-3 Annexure-4(1)

**Diversion of 226.3223 ha. Forest land of Banni Protected land for construction of 765 KV D/C Transmission line project from Khavda Plant SS of Hybrid Power Park to Pooling Substation (PSS1) of PGCIL at Bhuj-Kutch in favour of Adani Green Energy Thirty ltd., Ahmedabad.**

**Daily wages : Rs. 340.20/-**

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
<b>0 year</b>				
Nursery				
(a) Cost of soil, manure, seeds, water, polythene bag, fertilizer, insecticides, implements, rent of lands, Shade, etc. (including 10 % for casualty replacement)	1222	0.00	1825.33	1825.33
(b) labour : Preparation of beds, filling and arranging of bags, showing of seeds, watering shifting, weeding etc.	1222	4461.34	231.28	4692.62
(c) Seedling cost for casualty replacement in one year old (20%)	222	1409.51	421.64	1831.15
(d) Seedling cost for casualty replacement in two year old (10%)	111	705.65	209.92	915.57
<b>Total</b>		<b>6576.50</b>	<b>2688.17</b>	<b>9264.67</b>
<b>2. Area Development ( Land Preparation )</b>				
(a) Survey, cutback and promotion of root suckers, site preparation.		3352.23	0.00	3352.23
(b) Alignment and digging of pits 0.45 X 0.45 X 0.45	1111 @ 10.95	12754.04	0.00	12754.04
<b>Total</b>		<b>16106.27</b>	<b>0.00</b>	<b>16106.27</b>
(a) Natural fertilizer (Neem cake/ Castor cake)/ Bio fertilizar	1111	0.00	9882.76	9882.76
<b>Total</b>		<b>0.00</b>	<b>9882.76</b>	<b>9882.76</b>
<b>3. SMC Works</b>				
(a) Check wall/ retaining wall /checkdem (all pucca only) van talav, earthen bund, loose boulder chekdan	L.S.	11908.77	23661.69	35570.46
(b) Contour trench 2 M x 45 Cm x 30 Cm as per Rs.27.00/rmt (300 trench) ( according to the site condition)	600 rmt.	16983.79	0.00	16983.79
<b>Total</b>		<b>28892.56</b>	<b>23661.69</b>	<b>52554.25</b>
<b>4. Protection</b>				
(a) Protection trench (1.20m. Length x 0.60m. Width x 1m. Depth)	400 rmt @ 81.65	34240.16	0.00	34240.16
(b) Seed sowing desi baval, khijado, etc.. or any local species		1105.57	475.01	1580.58
<b>Total</b>		<b>35345.73</b>	<b>475.01</b>	<b>35820.74</b>
<b>Total of 0 year</b>		<b>86921.06</b>	<b>36707.63</b>	<b>123628.69</b>
<b>1st Year</b>				
(a) Maintenance of nursery (April to June)	1222	3137.15	313.13	3450.28
(b) Transport of seedling for plantation	1111	1720.55	355.81	2076.36
(c) Planting with khamna of Min 1 m dia	1111	5289.65	0.00	5289.65
(d) Transport of seedling for casualty replacement	111	183.08	40.91	223.99
(e) 3 weeding cum soil working	1111	20618.19	0.00	20618.19
(f) Support watering 5 times @ 3.25		13179.64	18929.35	32108.99
(g) Protection / tending operation		4265.83	0.00	4265.83
(h) Tending to natural vegetation		1066.46	0.00	1066.46
(i) Contingency		0.00	1067.44	1067.44
<b>Total for 1st year</b>		<b>49460.55</b>	<b>20706.64</b>	<b>70167.19</b>



<b>2nd Year</b>				
(a) 2 weeding & soil working		10570.38	0.00	10570.38
(b) 20 % Casually replacement, transport and planting	111+111	177.74	885.98	1063.72
(c) Natural fertilizer (neem cake / caster cake ) etc./ Bio fertilizer	Rs.5/ plant	0.00	9882.76	9882.76
(d) Support watering 3 times @ 3.25		7906.01	11357.60	19263.61
(e) Protection / tending operation		4269.77	0.00	4269.77
<b>Total for 2nd year</b>		<b>22923.90</b>	<b>22126.34</b>	<b>45050.24</b>
<b>3rd Year</b>				
(a) 2 weeding & soil working		10570.38	0.00	10570.38
(b) 10 % Casually replacement, transport and planting	111	88.87	442.98	531.85
(c) Natural fertilizer (neem cake / caster cake ) etc./ Bio fertilizer	Rs.5/ plant	0.00	9882.76	9882.76
(d) Support watering 1 times @ 3.25		2635.93	3785.86	6421.79
(e) Protection & maintenance of fencing / tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 3rd year</b>		<b>18627.46</b>	<b>14111.60</b>	<b>32739.06</b>
<b>4th Year</b>				
(a) 1 weeding & soil working		5284.29	0.00	5284.29
(b) Protection & Maintenance of fencing/ Tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 4th year</b>		<b>10616.57</b>	<b>0.00</b>	<b>10616.57</b>
<b>5th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 5th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>6th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 6th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>7th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 7th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>8th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 8th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>9th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 9th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>10th Year</b>				
Protection & maintenance of fencing/ tending operation	L.S.	5332.28	0.00	5332.28
<b>Total for 10th year</b>		<b>5332.28</b>	<b>0.00</b>	<b>5332.28</b>
<b>Grand Total :</b>		<b>220543.22</b>	<b>93652.21</b>	<b>314195.43</b>

Note :- (1) Seed showing along fencing / Protection trench towards also in the plot.  
(2) Seed showing of desi baval, khijado or any local species (site specific).

Date : 31 / 05 / 2021  
Place : Bhuj - Kutch

  
(Tushar B. Patel)  
Dy. Conservator of Forests  
Kutch West Division, Bhuj

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