#### Annexure-19

## Compensatory Afforestation Scheme for double degraded area

Proposal for diversion of 0.7524 ha.Of forest land for setting up pigging station at village Vijagadh in Dahod district, for Kandla Gorakhpur LPG pipeline project.

Detailed scheme of Compensatory Afforestation to be carried out in lieu of 0.7524 ha.of Reserved forest land for setting up pigging station at village Vijagadh in Dahod district, for Kandla Gorakhpur LPG pipeline project.

#### Details of degraded land.

Village	Garadiya
Taluka	Sanjeli
Range	Sanjeli
District	Dahod
Division	Baria
Block/ Patal, Compartment No.	10pt.
Area to be afforested	2.00 Ha.
Working circle	

10. Description of Area.

Soil type	Loamy &Rocky
Topography	Plain
Slope	Gentle
Whether the area is bearing any root stock of Vegetation	Yes

#### 11. Name of Plantation Programme:-

Compensatory Afforestation Scheme for Degraded Area.

### 12. Schedule of Plantation Programme:-

- (v) The Compensatory Afforestation on degraded area would be started by Dy.Conservator of Forest Baria Division as early as possible after the proposal is formally approved.
- (vi) Compensatory Afforestation will be done in 2.00 ha. area. The total afforestation cost will be about Rs.11,01,192/- Chandra Shekhar, Dy. General Manager (Project) IHB Limited, Central Construction Office, Ahmedabad has given an undertaking to pay the cost of Compensatory Afforestation as per the prevailing wages (including the price escalation and supervision charges).

## Details of Year Wise Break-Up requirement of fund is as under

#### Daily / Wages-Rs.351.30

Area ha	Rate /ha	Total Amount
2.00	182572	365144
2.00	89260	178520
2.00	60000	120000
2.00	47850	95700
2.00	16561	33122
2.00	8544	17088
2.00	10074	20148
2.00	10487	20974
2.00	10973	21946
2.00	11180	22360
2.00	11329	22658
	458830	917660
2.00	91766	183532
	550596	1101192 11.01.192
	2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00 2.00	2.00     182572       2.00     89260       2.00     60000       2.00     47850       2.00     16561       2.00     8544       2.00     10074       2.00     10487       2.00     10973       2.00     11180       2.00     1329       458830       2.00     91766

Compensatory Afforestation will be done in 2.00 ha. Area. The total afforestation cost will be Rs. 11,01,192/-

### 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. Theprevailing wage rateis 324.20 per day.				
b	Spacement	3 X 3 mtr., 1111 plants per ha.				
c	Species to be planted (No.					
	of plants per ha.)	Khair	150	65cm		
		Kanaj	100	75cm		
		Sadad	50	90cm		
		Bamboo	100	65cm		
		Bordi	25	65cm		
		Baheda	25	90cm		
		Mahuda	50	75cm		
		Amla	200	75cm		
		Teak	200	90cm		
		Etc.	211			
		Total	1111			
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 pl	anted during mons	soon.		
g	Soil & Moisture Conservation Works	<ul> <li>(vii) Pucca structure like Check dam, check wall, retaining wall</li> <li>(viii) 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 &amp; Nala Banding using The loose stone available in the area will be carried out as per requirement. Seeds of Jatropha, Agave plantsetc. will be planted during monsoon in the upper side of nala as per suitability.</li> <li>(ix) Van Talavadi/ Percolation tank</li> </ul>				
h	Protection Trench	Barbed wire fenching, Seed sowing And planting of cuttings of Ipomea/ Glarcidia along the fence				
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.				

		3rd veer one weeding it
1	A interprise	3 <sup>rd</sup> year one weeding soil working.
4	Maintenance	It is proposed to maintain the Plantation up to ten years.
k	Subsequent	Cleaning, cutbacks, thinning etc. (as per species specific requirement)
	silvicualtural Operation	will be carried out at the age as per prescribed in the working plan.
1	Proposed monitoring mechanism	(xv) A plantation register is to be maintained.
		(xvi) Monitoring is to be done as per the following norms.  Forester - 100%
		RFO – 100%
		ACF - 20%
		DCF - 10%
		(xvii) 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.
		(xviii) The collar girth is also to be reordered at the end of each year.
		(xix) At the end of maintenance period, the area is aimed at full
		stocking and pole crop girth for all the species, except bamboo.
		(xx)Bamboo would be of the harvestable size by the end of 4 <sup>th</sup> year.
		(xxi) 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.
-	m Regeneration cleaning	Cut-back and promotion of root suckers.
-	n Silviculture& other	Only afforestation aimed plantation will be taken up, as the area falls under
	activities	degraded forest land.

Dy. Conservator of Forest Baria

The Compensatory Afforestation scheme at the cost of Rs.11,01,192- (in words) Elevan Lacs One Thousand One Hundred Ninty Two Only is technically and administrative approved by the undersigned.

Dy. Conservator of Forest Baria

# pensatory Afforestration Scheme for Non- Forest land Under FCA Proposal

scheme of Compensatory Afforestation to be carried out in lieu of 0.7524 ha.of Reserved for setting up pigging station at village Vijagadh in Dahod district, for Kandla Gorakhpur pipeline project.

wements = 3mx3m

1111 seedling / ha styear 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

olypo	ot size: 15 cm X 25 cm X 200	0.	V -1		ate: 351.30/Day Totals
	Plau ground	Qty.	Labour	Material	Totals
year	Nursery				
iı	ost of soilmanure, seeds, water,fartillizer, insecticides, mplements, rent of lands. Shade. etc. (including '10 % for	1222	0	1815	1815
li	asuality replacement) abour : Preparation of beds, filling and arranging of bags,showing of seeds, watering shifting, weeding etc.	1222	4868	230	5098
5	Seedling cost for casuality replacement in one year old (20	222	1538	419	1957
	Seedling cost for casuality replacement in two year old (10%)	111	770	209 <b>2673</b>	979 <b>9850</b>
-	Total		7177	2073	
Ar	ea Development ( Land Preparation )		2657	0	3657
a)	Survey cuthack and promotion of root suckers		3657 10199	0	10199
	Alignment and digging of pits 0.45 X 0.45 X 0.45	.1111@8.84	13856	0	13856
	Total	4444.010	13830	11110	11110
(a)	Natural Fertilizer (Neem cake/ Castor cake)	<u>1111@10</u>	0	11110	
	Total	•	0		
3. SI	MC Works	L.S	13685	23535	37220
(a)	Check wall/ retaining wall /checkdem (all pucca only)  Contour trench 2 M x 45 Cm x 30 Cm as per Rs.51.75/rmt  (300 trench)	600rmt	10372	C	10372
(b)	Van Talavadi/Hill Top Tank/Percolation tank/Nala bund,Gully Plug etc.		10484		10484
.(c)	Total		34541	23535	58076
4 D	Protection				00000
(a)	Barbed wire fencing (220 rmt/ Ha., Rs. 400/- per Rmt)	L.S	8000	8000	88000
(b)	Seed sowing and planting of cuttings of lpomea/ Glaricidia along the fence		1208		
(0)	Total		9208		
	Total for 0 year		64781	1 11779	1 182572
lst'	Year	1000	116	24	4000
(a)	Maintenance of nursery (April toJune)	1222	4460		
(b)	Transport of seedling for plantation	1111	237		
.(c)	Planting with khamna of Min. 1 m dia	1111	698	5	0 6985
(d)	Transport & planting of seediling for casualty replacement	111	42		464
(e)	3 weeding cum soilworking	1111	2850	9	0 28509
(f)	Support watering 5 times @5.30		1756 537		20073
(g)	Protection / tending operation			the state of the s	0 5370
(h)			130		0 130
(i)	Contigency			0 11	58 1158
	Total for 1st year		6697	9 222	81 89260

	gradust and the			
ing & soil working		13774	0	13774
fing & son were and Planting & Son Western Stransport and Planting	111+111	370	1320	1690
Natural fertilizer (neem cake / caster cake ) etc	Rs. 10/plants			13560
Natural let times (as 5.30 support watering 3 times (as 5.30)	To/ plants	0	13560	
support watering o times e disc		11150	14325	25475 5501
		5501	0	
Total for Zilu fea	r	30795	29205	60000
3rd Year				13774
(a) 2 weeding & soil working		13774	0	13//4
(b) 10 % Casually Replecement, transport and	111	244	555	799
mi a' National Contillation and a language	Rs.		14871	14871
(b) Planting, Natural fertilizer, neem cake etc.	10/plants	3968	4120	8088
(c) Support watering 1 times @6			0	10319
(d) Protection & maintenance of fencing / tending Operation	L.S	10319 28304	19546	47850
Total for 3rd year		20301		
4thYear	L.S	6243	0	6243
(a) 1 weeding & soilworking (b) Protection & Maintenance of fencing/ Tending operation	D.O	10318	0	10318
(b) Protection & Maintenance of fencing/ Tending operation  Total for 4th Year	NE HOLLES	16561	0	16561
				8544
SthYear  Protection & maintenance of fencing/ tending operation	L.S	8544	0	8544
Total for 5th Year		8544	U	
6thYear		10074	0	10074
Protection & maintenance of fencing/ tending operation	L.S	10074	0	10074
Total for 6th Year		10071		
				10407
7 th Year forming / tanding operation	L.S	10487	0	10487 10487
Protection & maintenance of fencing/ tending operation  Total for 7th Year		10487	0	10407
		10050	0	10973
8 th Year Protection & maintenance of fencing/ tending operation	L.S	10973 10973	0	10973
Total for 8th Year		109/3		
9 th Year			0	11180
Protection & maintenance of fencing/ tending operation	L.S	11180	0	
Total for 9th Year		11180	0	11180
				11000
10 th Year Protection & maintenance of fencing/ tending operation	L.S	11329	0	11329
Protection & maintenance of fencing/ tenaning operations  Total for 10th Year		11329	0	11329
Grand Total		270007	188823	458830
	20%	54001	37765	91766
The Cost of Supervision/Subsequential Silvicultural operations		324008	226588	550596

Note:

.(1) Seed sowing along fensing toward for inner side, and also in the plot

.(2) Planting of cutting of ipomea/Glaricidia along the fencing towards outer side

Compensatory afforestation will be done in 2.00 Ha Area

Total Cost Rs.: 11,01,192/-

Deputy Conservator of Forests, Baria