

Full Title of the Project:

Diversion of 2.23 hect. of forest Land for Laying Natural Gas Pipeline across Forest lands from NH 352 upto Patiala Chowk and Patiala Chowk to Narwana under Forest Division & District Jind (Hry.)

File No. :

FP/HR/Pipeline/60527/2020

Date of Proposal:

28-12-2020

CHECK LIST SERIAL NUMBER:-18

"SCHEME FOR C.A."

Name of the Forest/Reach to be diverted: Diversion of 2.23 ha. of forest Land for laying Natural Gas Pipeline across from Forest Lands from NH 352 upto Patiala chowk and Patiala chowk to Narwana under Forest division & District Jind (Haryana)

Forest Area = 2.23 hect

Details of degraded forest land/non-forest land where C.A. is to be carried out.

Division Jind District Jind Tehsil Jind, Uchana & Narwana Range Jind & Narwana
C.A. Site name : Jind Sonipat Railway Line KM between Lalit Khera to Ludana L& R Side

- Area to be Afforested :-
- a) Whether the site selected for Compensatory Afforestation is a Land bank (Yes or No): Yes
- b) If the CA site is other than the land bank, reasons be given:- N/A
In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary :- N/A
- i) Soil type: sandy to sandy loam
ii) Topography a. Hilly/Undulating/Plain: Plain
b. Slope:-Steep/Medium/Gentle: Gentle
iii) Whether the area is bearing any root stock of vegetation:- ---

Plantation Model:-

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial break up is as under ;

1. Schedule of Plantation Programme:-

Detail of year wise break-up of requirements of funds is as under:-

The plantation cost is calculated for Tall Plants norms at 4m x 2½m spacing at the wage rate of Rs. 347.08/- per day as under:-

Year	Rate per Plant
1 st Year cost of afforestation	Rs. 527.56/- Per Plant
2 nd Year maintenance	Rs. 135.26/- Per Plant
3 rd Year maintenance	Rs. 84.75/- Per Plant
4 th Year maintenance	Rs. 21.49/- Per Plant
5 th Year maintenance	Rs. 21.49/- Per Plant
6 th Year maintenance	Rs. 19.52/- Per Plant
7 th Year maintenance	Rs. 19.52/- Per Plant
8 th Year maintenance	Rs. 19.52/- Per Plant
9 th Year maintenance	Rs. 19.52/- Per Plant
10 th Year maintenance	Rs. 19.52/- Per Plant
Total	Rs. 888.15 /-

Area to be Diverted : 2.23 ha.

No. of Tree to be felled : Nil

No. of Plant to be damaged: Nil

Plants to be Planted under normal CA : 4460 (2.23x2=4.46@ 1000 plants per ha.)

Area to be Planted under Penal CA : 0 ha.. (ten time of the area to be diverted)

Plant to be Planted under Penal CA: 0 (@1000 Plant per hect.)

Additional CA is lieu of Plants to be damaged (Double the plants to be Damaged) =0

Area to Planted under Addl. CA : 0 (@ 1000 plants per ha.)

Total No. of Plants to be Planted (CA+Penal.CA) : 4460

Total Area to be Planted (CA+ Penal.CA) 4.46 ha. (@ 1000 plants per ha.)

S.No	DESCRIPTION		RATE	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plants		
	(1) 1 st Year cost of afforestation	4460	Rs. 527.56/- Per Plant	2352918
	(2) 2 nd Year maintenance		Rs. 135.26/- Per Plant	603260
	(3) 3 rd Year maintenance		Rs. 84.75/- Per Plant	377985
	(4) 4 th Year maintenance		Rs. 21.49/- Per Plant	95845
	(5) 5 th Year maintenance		Rs. 21.49/- Per Plant	95845
	(6) 6 th Year maintenance		Rs. 19.52/- Per Plant	87059
	(7) 7 th Year maintenance		Rs. 19.52/- Per Plant	87059
	(8) 8 th Year maintenance		Rs. 19.52/- Per Plant	87059
	(9) 9 th Year maintenance		Rs. 19.52/- Per Plant	87059
	(10) 10 th Year maintenance		Rs. 19.52/- Per Plant	87059
			Total	3961148
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	396115
	(11) Barbed wire fencing charge 17.84 Rkm		Rs.200000/- Per RKM	3568000
	Total (A) C.A. Charges			7925263
B	Additional Compensatory Afforestation Charges/			
	(1) 1 st Year cost of afforestation	0	Rs. 527.56/- Per Plant	0
	(2) 2 nd Year maintenance		Rs. 135.26/- Per Plant	0
	(3) 3 rd Year maintenance		Rs. 84.75/- Per Plant	0
	(4) 4 th Year maintenance		Rs. 21.49/- Per Plant	0
	(5) 5 th Year maintenance		Rs. 21.49/- Per Plant	0
	(6) 6 th Year maintenance		Rs. 19.52/- Per Plant	0
	(7) 7 th Year maintenance		Rs. 19.52/- Per Plant	0
	(8) 8 th Year maintenance		Rs. 19.52/- Per Plant	0
	(9) 9 th Year maintenance		Rs. 19.52/- Per Plant	0
	(10) 10 th Year maintenance		Rs. 19.52/- Per Plant	0
	(11) Barbed wire fencing charge= 0RKM		Rs.200000/- Per RKM	0
	Total (B) Addl. C.A. Charges			0

C	Penal CA Charges		
	(1) 1 st Year cost of afforestation	0	Rs. 527.56/- Per Plant
	(2) 2 nd Year maintenance		Rs. 135.26/- Per Plant 0
	(3) 3 rd Year maintenance		Rs. 84.75/- Per Plant
	(4) 4 th Year maintenance		Rs. 21.49/- Per Plant 0
	(5) 5 th Year maintenance		Rs. 21.49/- Per Plant 0
	(6) 6 th Year maintenance		Rs. 19.52/- Per Plant
	(7) 7 th Year maintenance		Rs. 19.52/- Per Plant 0
	(8) 8 th Year maintenance		Rs. 19.52/- Per Plant
	(9) 9 th Year maintenance		Rs. 19.52/- Per Plant 0
	(10) 10 th Year maintenance		Rs. 19.52/- Per Plant
	(11) Barbed wire fencing charge= ORKM		Rs.200000/- Per RKM 0
	Total (B) Addl. C.A. Charges		
D	Catchment Area Treatment		
	Soil and Moisture Conservation charges	30% of the Total CA	1188344
	Total (D)		1188344
E	Safety Zone (if required)		0
F	Additional Charges (If required)	Qty	Rate
	Survey & Demarcation		0
	Equipments for Cultural operations (Rotavetor, Auger , Tractor operations and etc. equipments)		0
	Tractor 1 No.		0
	Trolly & Tanker		0
	Total (F)		0
G	Penalty for violation as provision J (20) of MoEFCC Letter No. 11-42/2017-FC dt 29-01-2018 with interest. Period of violation from 02-09-2020 to 06-05-2020 (No. of days= 247) Be taken 20 % as Govt. Project	Actual NPV+ Interest @ 12% per annum (0)	0
H	Less 20 % of NPV		0
I	Total NPV+ Interest @12% per annum		0
J	Felling charges = 0 m³	Rs.1200 /- per m ³	0
	GRAND TOTAL (A+B+C+D+E+F+G+H+I+J) to be deposited in CAMPA Fund		9113607

2. **Technical details:-**

- General Details:-
- Spacement:-
- Species:-
- Plantation Method :-
- Soil and Moisture Conservation Works
- Protection (Fencing, Watch man, People's Participation etc.):-
- Proposed Monitoring Mechanism:- (M&E),
- Any Other information:- Nil.

Plantation will be done with 3 strand barbed wire.

4 × 2½ meter

Shisham, Kikar, Neem, Jamun, Jamova, Bel Pather, Lasora, Arjun, Siris.

ANR Plantation

Fencing

Place: Jind

Dated :

Note : CF (T) should countersign this C.A. scheme if area to be afforested is more than 5 hectare.

[Signature]
Divisional Forest Officer
Jind Forest Division
JIND

Full Title of the Project:

Diversion of 0.0966 hect. Forest land for setting up new online CNG Retail Outlet by HPCL on Panipat Safidon Road (SH-14) Khasra No. 77/19/2 & 12/1 Khewat No. 104, Khatoni No. 149, at village Anta Tehsil Safidon Distt Jind.

Online Proposal No.

FP/HR/Approach/154964/2022

Date of Proposal:

CHECK LIST SERIAL NUMBER: 18

“ AMOUNT OF NET PRESENT VALUE ”

Description	Rate per Hect.	Total Amount
Net Present Value of Forest Land to be diverted 2.23 ha	957780/- per hect	2135849.00

Vegetation Density

0.3

ECO Class


III

Trees Effectd

No Plants and trees will be effected in the case

Place : Jind

Dated


Divisional Forest Officer
Jind Forest Division
Jind. **JIND**
Office Seal.....

Cost Statement of Plantation (Tall Plants) under CA scheme during the year 2020-21 at a wage rate of Rs. 363.77/- per day

No. of Plants per RKM = 1000, spacing =4m plant to plant

Sr. No.	Item of Work	Unit	Qty.	Rate / Unit (Rs.)	Amount (Rs.)
Ist year expenditure					
1	Jungle clearance	Ha	1.6	5456.55	8730.48
2	Upreooting of Stumps	Hect.	1	L/s	100000.00
3	Ploughing with Harrow/ rotavator by Hired tractor 3 times.= (1x3=3 hect) =3x10000 = 30000 mtr. @111.30/ mtr.	Hect.	3	11130/ hect.	33390.00
4	Dag bailing and alignment	RKM	3	254.63	840.28
5	Digging of pits 1000x0.6mx0.6mx0.6m	m ³	216	154.60	33393.60
6	Raising of plants in nursery (30cmx45cm) 1000+20% extra	Nos	1200	92.49	110988.00
7	Loading and unloading of plants in tractor/cart	Nos	1100	2.74	3014.00
8	Carriage of plants	Nos	1100	22.85	25135.00
9	Carriage of plants from pit to pit	LS			2500.00
10	Planting of seedling & including 10% replacement	Nos	1100	14.56	16016.00
11	Application of fertilizer (one time DAP+One time urea)	Nos	2000	0.72	1440.00
12	Irrigation 5 times	Nos	5000	5.47	27350.00
13	Purchase of Water	L/s			10000.00
14	First weeding and hoeing	Nos	1000	7.26	7260.00
15	Subsequent weeding and hoeing 5 times	Nos	5000	5.47	27350.00
16	New long fencing	mtr	100	16.12	1612.00
17	Chhapa binding around plants	No.	1000	16.14	16140.00
18	Miscellaneous expenditure	LS			20000.00
19	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 5 RKM)	LS			13094.00
	Total				458253.36
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				37233
	Added Contractor profit @ 7% of total				32078
	Net Total				527564.18

2nd year maintenance					
1	Jungle clearance	Ha	0.5	5456.55	2728.28
2	Ploughing with Harrow/ rotavator by Hired tractor 1 times.= (1x1=1 hect) =1x10000 = 10000 mtr. @111.30/ mtr.	Hect.	1	11130/ hect.	11130.00
3	reopening of pits 200x0.6mx0.6mx0.6m	m ³	43	72.75	3142.80
4	Raising of plants in nursery (30cmx45cm) :200+20% extra	Nos	240	92.49	22197.60
5	Loading and unloading of plants in tractor/cart	Nos	220	2.73	600.60
6	Carriage of plants	Nos	220	22.85	5027.00
7	Planting of seedling & including 10% replacement	Nos	220	14.56	3203.20
8	Irrigation 4 times	Nos	4000	5.47	21880.00
9	weeding and hoeing 4 times	Nos	4000	5.47	21880.00
10	Purchase of Water	L/s			10000.00
11	Chhapa binding around plants	No.	500	16.14	8070.00
12	Miscellaneous expenditure	LS			1086.00
13	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 RKM)	LS			6547.00
	Total				117492.48
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				9546
	Added Contractor profit @ 7% of total				8224
	Net Total				135263.21
3rd year maintenance					
1	Jungle clearance	Ha	0.5	5456.55	2728.28
2	Ploughing with Harrow/ rotavator by Hired tractor 1 times.= (1x1=1 hect) =1x10000 = 10000 mtr. @111.30/ mtr.	Hect.	1	11130/ hect.	11130.00
3	reopening of pits 100x0.6mx0.6mx0.6m	m ³	22	72.75	1571.40
4	Raising of plants in nursery (30cmx45cm) :100+20% extra	Nos	120	92.49	11098.80
5	Loading and unloading of plants in tractor/cart	Nos	110	2.73	300.30
6	Carriage of plants	Nos	110	22.85	2513.50
7	Carriage of plants from pit to pit	LS			500.00
7	Planting of seedling & including 10% replacement	Nos	100	14.56	1456.00
9	Irrigation 3 times	Nos	3000	4.56	13680.00
11	weeding and hoeing 3 times	Nos	3000	5.47	16410.00
14	Chhapa binding around plants	No.	300	16.14	4842.00
13	Miscellaneous expenditure	LS			840.00
14	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 RKM)	LS			6547.00
	Total				73617.28
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				5981
	Added Contractor profit @ 7% of total				5153
	Net Total				84751.89

4th year maintenance					
1	Harrowing in Plantation 3 times	Ha.	3	1713.42	5140.26
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				18666.26
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1517
	Added Contractor profit @ 7% of total				1307
	Net Total				21489.53
5th year maintenance					
1	Harrowing in Plantation 3 times	Ha.	3	1713.42	5140.26
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				18666.26
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1517
	Added Contractor profit @ 7% of total				1307
	Net Total				21489.53
6th year maintenance					
1	Harrowing in Plantation 2 times	Ha.	2	1713.42	3426.84
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				16952.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1377
	Added Contractor profit @ 7% of total				1187
	Net Total				19516.96
7th year maintenance					
1	Harrowing in Plantation 2 times	Ha.	2	1713.42	3426.84
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				16952.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1377
	Added Contractor profit @ 7% of total				1187
	Net Total				19516.96
8th year maintenance					
1	Harrowing in Plantation 2 times	Ha.	2	1713.42	3426.84
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				16952.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1377
	Added Contractor profit @ 7% of total				1187
	Net Total				19516.96

9th year maintenance					
1	Harrowing in Plantation 2 times	Ha.	2	1713.42	3426.84
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				16952.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1377
	Added Contractor profit @ 7% of total				1187
	Net Total				19516.96
10th year maintenance					
1	Harrowing in Plantation 2 times	Ha.	2	1713.42	3426.84
2	Expenditure on cleaning, pruning and thinning	LS		0.00	3526.00
3	Misc. Expenditure on cleaning, pruning and thinning				10000.00
	Total				16952.84
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				1377
	Added Contractor profit @ 7% of total				1187
	Net Total				19516.96
ABSTRACT OF COST NORMS					
YEAR OF PLANTATION		Cost (Rs.)		Cost per plant (Rs.)	
1	FIRST YEAR PLANTATION	527564.18	527.56		
2	SECOND YEAR MAINTENANCE	135263.21	135.26		
3	THIRD YEAR MAINTENANCE	84751.89	84.75		
4	FOURTH YEAR MAINTENANCE	21489.53	21.49		
5	FIFTH YEAR MAINTENANCE	21489.53	21.49		
6	SIXTH YEAR MAINTENANCE	19516.96	19.52		
7	SEVENTH YEAR MAINTENANCE	19516.96	19.52		
8	EIGHT YEAR MAINTENANCE	19516.96	19.52		
9	NINE YEAR MAINTENANCE	19516.96	19.52		
10	TENTH YEAR MAINTENANCE	19516.96	19.52		
	TOTAL	888143.13	888.14		