

Full Title of the Project: Diversion of 22.94 Ha. for Forest Land for Parallel Lined Channel (PLC) Project from RD 0 (Dadupur Head) to 68220 (Hamida Head) in District Yamunanagar under Forest Division & District Yamunanagar, Haryana.

Online Proposal No.:- FP/HR/Canal/40972/2019

CHECK LIST SERIAL NUMBER:- 18
"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the Forest/Reach to be diverted			Full Title of the Project: Diversion of 22.94 Ha. for Forest Land for Parallel Lined Channel (PLC) Project from RD 0 (Dadupur Head) to 68220 (Hamida Head) in District Yamunanagar under Forest Division & District Yamunanagar, Haryana.		
Forest Area (in Ha)			22.94		
Details of de-graded forest land/non forest land where CA is to be carried out :			A. Hilly/Undulating/Plain.		
Division / District:	Hisar	Range	Hansi, Hisar and Adampur	Village.	Sorkhi, Rajthal, Rajpura, Daulatpur and Lakhpul
2).	Description of Area :				
i	Whether the site selected for Compensatory Afforestation is a land bank or not				Yes
ii	If the C.A site is other than the land bank, reasons be given				N.A
iii	In case of non-forest area identified for CA, then what is the distance of CA site from adjoining forest boundary				N.A
iv	Soil Type			Sandy Loam	
v	Topography :		a. Hilly/Undulating/Plain.		Undulating
			b. Slope:-Steep/Medium/Gentle.		
vi	Whether the area is bearing any root stock of vegetation				No

3 Plantation of Model:-

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

Detail of year wise breakup of requirement of funds is as under :-

The plantation cost is calculated for tall plants norms at 4 mtr x 2.5 mtr spacing and it is approved by the PCCF, Haryana's letter no. CAMPA/2729 dated 03-07-2018 at the wage rate of Rs. 326.82/- per day as under :-

Year	Plant per Year
1 st Year cost of afforestation	359.10
2 nd Year maintenance	115.35
3 rd Year maintenance	41.89
4 th Year maintenance	15.58
5 th Year maintenance	15.58
6 th Year maintenance	15.58
7 th Year maintenance	15.58
8 th Year maintenance	15.58
9 th Year maintenance	15.58
10 th Year maintenance	15.58
Total	625.40

Area to be Diverted =	22.94
No. of trees to be felled-	11875
Plants to be damaged=	0
Addl C.A. in lieu of plants to be damaged	0
Area to be planted under normal CA	10 Ha.
Plants to be Planted under normal CA	10000
No. of trees & plants already existing on non-forest land to be provided by U/A being off-setted against CA=	Area 16.8 ha tree already stands
(As per Para 2.4 (ix), Chapter-2 of Handbook of FCA,1980 Guidelines 2019)	Out of 22.94 Ha. land only 16.8 Ha. land provided by U/A for Hisar Division. According to C.A Scheme 16800 plants are to be planted on the 16.8 Ha. land. But due to 352 plants and some structure already available on the site only 10000 plants could be planted on the site.
Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)=	5376

S.No	DESCRIPTION		RATE Rs Per Plant	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plants		
	(1) 1 st Year cost of afforestation	10000	359.10	3591000
	(2) 2 nd Year maintenance		115.35	1153500
	(3) 3 rd Year maintenance		41.89	418900
	(4) 4 th Year maintenance		15.58	155800
	(5) 5 th Year maintenance		15.58	155800
	(6) 6 th Year maintenance		15.58	155800
	(7) 7 th Year maintenance		15.58	155800
	(8) 8 th Year maintenance		15.58	155800
	(9) 9 th Year maintenance		15.58	155800
	(10) 10 th Year maintenance		15.58	155800
	(11) Chain Link Fencing charges=RKM	3.00	Rs. 900000/- Per RKM	2700000
	Total Charges			8954000
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA charges	895400
	Total (A) C.A. Charges			9849400
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	0	359.10	0.00
	(2) 2 nd Year maintenance		115.35	0.00
	(3) 3 rd Year maintenance		41.89	0.00
	(4) 4 th Year maintenance		15.58	0.00
	(5) 5 th Year maintenance		15.58	0.00
	(6) 6 th Year maintenance		15.58	0.00
	(7) 7 th Year maintenance		15.58	0.00
	(8) 8 th Year maintenance		15.58	0.00
	(9) 9 th Year maintenance		15.58	0.00
	(10) 10 th Year maintenance		15.58	0.00
	(11) Chain Link Fencing charges=RKM	0.00	Rs. 900000/- Per RKM	0
	Total (B) Addl. C.A. Charges			0
C	Catchment Area Treatment (if required)			
	Soil and Moisture Conservation charges		30% of the Total CA	2954820
D	Safety Zone (if required)			0
E	Additional Charges (if required)		Qty Rate	
	Saline soil Treatment(soil have high Electrical conductivity and Sodium Absorption Ratio so proper treatment is require)			

Gypsum Application + Green manuring to reclaim soil + Casualty replacement + construction of sub surface drainage as per need	10 ha treatment	60000 (AS per guideline of Min of Agri (GOI))	600,000
Soil Salinity treatment compost and farm yard manure/application Care Taker person for 4 year	2 Person	347.08/- per mandays x 26 day + 13% EPF and 3.25 % ESI = 10500 per person	1,008,000
Total			1,608,000

Jungle clearance and Removal of Kharpartwar, Levelling of of lanced scape through earthfilling and maintenance of structural assets for 5 years

1st year	LS		200000
2nd year	LS		100000
3rd year	LS		100000
4th year	LS		100000
5th year	LS		100000
Total			600000

Irrigation Scheduling and planning- As site given by user agency have no source of water, so supply of water from nearby canal is must. For this purpose pipeline establishment is must after that construction of storage tank at proposed C.A site is require. Then irrigatin will be given by both surface and pressurised irrigation method)

Supply, laying and commissioning in position PVC Pipe conforming for the respective working presure at working site. A. 160 mm, 110mm, 75mm pipe work @ 6Kg.		2067648 1112100 519552	3699300
Earth work excavation and refilling 300X450 mm		493350	493350
Drip Irrigation System setup and Accessories Suppling fixation and commisioning of flexible, kink resist 16mm inline tubing with non presure compensating, 2" Lagre Capacity Y Filter for submain fileteration, Battary of Sand Filter		1814400 86400 92000	1992800
Valves, accessories fitting and maintenance of main and other irrigation System			
PVC Ball Valve of size 75mm, 110mm with presure rating PN 10, Double acting air and Vaccum releaser, 10 Round Valve Box with greenlid, ISI Butterfly Valve		45600 13000 22000 36400 128000	245000
Setup of pumping unit supply fixing and commisioning of monoblock and sumercible pumpset heavy duty of Pump 22 LPS, Pressure Head Range 40-60 Mtr., of having discharge and head of design flow		350000 64000 12000 45000 13500	484500
Dug Well of 4 mtr. In the pond for the suction unit for pump @ 25 LPS		120000	120000
Honda siel WV 30 D Diesal Pump	5	45000	225000

Pond Construction for supply of water and scheduling of irrigation at different location	0	1325000	0
Solar Pump Submersible Tubewell for 10 Ha. (5HP)	1	270000 per No.	270000
Other Macheneries			
Protection Wacher next 10 year	2	347.08/- per mandays x 26 day + 13% EPF and 3.25 % ESI = 10500 per person	2,520,000
Gate construction	1		30000
Puerchase of machinery and equipment for forest protection	1 Tractor Trolley	Cost @ 7 Lakh Cost @ 2 lakh	900000
Plantation protection sign board and Display Forest Department Management and Awareness		82000	82000
Forest Department Management and Awareness compaign		92000	92000
Total			11153950
G.Total			13,361,950
F	Net Present Value of Forest Land to be diverted		Rs. 887000/- ha.
G	Felling charges = Vol m ³	0	Rs. 1200/- Per m3
H	Exigency Charges 3% of the total cost of		
Grand Total (A+B+C+D+E+F+G+H) TO BE Deposited in CAMPA			26166170
			Or Say
			26166000
3	Technical Details :-		
Technical Details of Compensatory Afforestation Scheme are as follows :-			
a	General Details		Plantation will be done with 3 standard chain link fencing in RF/PF.
b	Spacement.		4 x 2.5 mtr.
c	Species.		Neem, Bakain, Shisham, Siris, Jamun, Papri etc.
d	Plantation Method.		Tall Plantation
e	Soil and Moisture Conservation Works.		NIL
f	Protection (Fencing, watchman, Peoples Participation etc).		Fencing
g	Proposed Monitoring Mechanisim.		M&E
h	Any Other Information		No

Place: Hisar
Dated : 10/31/2020

Divisional Forest Officer,
Hisar.

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