

Full Title of the Project: Diversion of 0.0046 Ha. forest land in favour of M/s Shree Balaji Phosphate and Organic Industries bearing Khasra No. 72//3, 4, 7, 8/1, 14/1 on Choudharywas to Gawar Road (ODR) at Village Gawar, at District Hisar & District Hisar, under forest Division & Distt. Hisar Haryana.

FP/HR/Approach/151308/2022

Date of Proposal: 18/01/2021

CHECK LIST SERIAL NUMBER:- 18

"SCHEME FOR COMPENSATORY AFFORESTATION"

Name of the Forest/Reach to be diverted			Full Title of the Project: Diversion of 0.0046 Ha. forest land in favour of M/s Shree Balaji Phosphate and Organic Industries bearing Khasra No. 72//3, 4, 7, 8/1, 14/1 on Choudharywas to Gawar Road (ODR) at Village Gawar, at District Hisar & District Hisar, under forest Division & Distt. Hisar Haryana.		
Forest Area (in Ha)			0.0046		
Details of de-graded forest land/non forest land where CA is to be carried out :			CA site - Gawar Minor RD 14-17 R/ Side		
Division / District	Hisar	Range	Hisar	Village.	Gawar
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 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 Plant to Plant spacing and it is approved by the PCCF, Haryana's letter no. CAMPA/232 dated 11-06-2021 on the wage rate of Rs. 363.77/- per day as under :-

Year	Plant per Year
	315.33
1 st Year cost of afforestation	86.90
2 nd Year maintenance	54.09
3 rd Year maintenance	10.05
4 th Year maintenance	10.05
5 th Year maintenance	10.05
6 th Year maintenance	10.05
7 th Year maintenance	10.05
8 th Year maintenance	10.05
9 th Year maintenance	10.05
10 th Year maintenance	526.67
Total	

Area to be Diverted =	0.0046
No. of trees to be felled-	0
Plants to be damaged=	0
Plants to be planted =	100
Area to be Planted (@ 1000 plant per ha.) =	0.10
Additional C.A. in lieu of plants to be damaged (Double the plants to be damaged)= 10	

S.No	DESCRIPTION		RATE Rs Per Plant	TOTAL AMOUNT (Rs.)
A	Compensatory Afforestation Charges	No. of Plants		
	(1) 1 st Year cost of afforestation	100	315.33	31533
	(2) 2 nd Year maintenance		86.90	8690
	(3) 3 rd Year maintenance		54.09	5409
	(4) 4 th Year maintenance		10.05	1005
	(5) 5 th Year maintenance		10.05	1005
	(6) 6 th Year maintenance		10.05	1005
	(7) 7 th Year maintenance		10.05	1005
	(8) 8 th Year maintenance		10.05	1005
	(9) 9 th Year maintenance		10.05	1005
	(10) 10 th Year maintenance		10.05	1005
	Total Charges (C.A)			52667
	(11) Barbed Wire Fencing charges= RKM	0.40	Rs. 200000/- Per RKM	80000
	G. Total Charges (C.A)			132667
B	Additional Compensatory Afforestation Charges			
	(1) 1 st Year cost of afforestation	0	315.33	0.00
	(2) 2 nd Year maintenance		86.90	0.00
	(3) 3 rd Year maintenance		54.09	0.00
	(4) 4 th Year maintenance		10.05	0.00
	(5) 5 th Year maintenance		10.05	0.00
	(6) 6 th Year maintenance		10.05	0.00
	(7) 7 th Year maintenance		10.05	0.00
	(8) 8 th Year maintenance		10.05	0.00
	(9) 9 th Year maintenance		10.05	0.00
	(10) 10 th Year maintenance		10.05	0.00
	Total Addl. C.A. Charges			0
	(11) Barbed Wire Fencing charges= RKM	0.00	Rs. 200000/- Per RKM	0
	G. Total (B) Addl. C.A. Charges			0
	Total (A+B) C.A. Charges			52667
	Supervisory / Overhead / Miscellaneous Charges		10% on the CA	5267
	Total (A) C.A. Charges			57934
C	Catchment Area Treatment (if required)			
	Soil and Moisture Conservation charges		30% of the Total CA	15800
D	Safety Zone (if required)			
	Additional Charges (if required)	Qty	Rate	
F	Net Present Value of Forest Land to be diverted		Rs. 957780/- ha.	0
G	Violation Charges (NPV X 5 X 12% Simple Intrest)			0
I	Felling charges = Vol m ³	0	Rs. 1200/- Per m3	0
	Total			153734
				4612
J	Exigency Charges 3% of the total cost of Total CA Scheme			
	G.Total			158346

1	Technical Details :-			
	Technical Details of Compensatory Afforestation Scheme are as follows :-			
2	General Details			Plantation will be done with 3 standard Barbed fencing in RE/PF
3	Spacing			Plant to Plant
4	Species			Neem, Bakain, Shisham, Siris, Jamun, Papri, Arjun, Laxora, Tut, Indli, Awla etc.
5	Plantation Method			Full Plantation
6	Soil and Moisture Conservation Works			
7	Protection (Fencing, watchman, Peoples Participation etc).			Fencing
8	Proposed Monitoring Mechanism.			M&E
9	Any Other Information			No

Place: Hisar

Dated : 12-11-2022

Divisional Forest Officer

Hisar.

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

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NPV Calculation Sheet

Net Present Value to be realized in lieu of diversion of 0.0046 Ha. of forest land for Diversion of 0.0046 Ha. forest land in favour of M/s Shree Balaji Phosphate and Industries bearing Khasra No. 72//3, 4, 7, 8/1, 14/1 on Choudharywas to Gawar Road (ODR) at Village Gawar, at District Hisar & District Hisar, under forest Division & Distt. Hisar Haryana. have been fixed based on the outcome scientific accessment of ecosystem goods and services.

In this case NPV is calculated as per **Eco Class III (Open) @ 957780/- per ha.** Fitment factor of 1.53 i.e @
Diverted Land 0.0046 X 957780 = 4406

Divisional Forest Officer(T),
Hisar

**Cost Statement of Plantation of Tall Plants under Compensatory Afforestation during the year
2021-22 at a wage rate of Rs. 363.77/- per day**

No. of Plants = 1000, spacing = 4m x 4m, physical area per 1000 plants = 1.6 Ha.

Sr. No.	Item of Work	Unit	Qty.	Rate / Unit	Amount (Rs.)
1st year Plantation (2021-22)					
1	Jungle clearance	Ha	1.6	5456.55	8730.48
2	Raising of plants in nursery (30cmx45cm) : 1000+20% extra	Nos	1200	92.49	110988.00
3	Dag bailing and alignment	RKM	3	254.63	840.28
4	Digging of pits 1000x0.6mx0.6mx0.6m	M ³	216	154.60	33393.60
5	Loading and unloading of plants in tractor/cart	Nos	1100	2.74	3014.00
6	Carriage of plants by Tractor/ Trolley	Nos	1100	22.85	25135.00
7	Carriage of plants from pit to pit	Nos	L/s		2500.00
8	Planting of Plants including 10% replacement	Nos	1100	14.56	16016.00
9	Application of fertilizer (one time DAP+One time urea)	Nos	2000	0.72	1440.00
10	Irrigation five times	Nos	5000	5.47	27350.00
11	First weeding and hoeing	Nos	1000	7.26	7260.00
12	Subsequent weeding and hoeing two times	Nos	2000	5.47	10940.00
13	New long fencing	Mtr.	100	16.12	1612.00
14	Chhapa binding around plants	No.	1000	16.14	16140.00
15	Miscellaneous expenditure	LS			2000.00
16	Cost of wages of protection watcher (one protection watcher for six months for plantation area of 10 Ha.)	LS			6547.00
	Sub-Total				273906.36
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				22254.89
	Added Contractor profit @ 7% of total				19173.45
	Total				315334.70
2nd year maintenance					
1	Jungle clearance	Ha.	0.5	5456.55	2728.28
2	Raising of plants in nursery	No.	240	92.49	22197.60
3	Re-opening of pits 200x (0.6cmx0.6cmx0.6cm)	M ³	43.2	72.75	3142.80
4	Loading & unloading of plants	No.	220	2.73	600.60
5	Carriage of plants	No.	220	22.85	5027.00
6	Carriage of plants Pit to Pit	No.	L/s		1000.00
7	Planting of plants	No.	220	14.56	3203.20
8	Irrigation three times	No.	3000	5.47	16410.00
9	Chhapa binding around plants	No.	500	16.14	8070.00
10	Weeding and hoeing once	No.	1000	5.47	5470.00
11	Miscellaneous expenditure	LS			1086.00
12	Cost of wages of protection watcher				6547.00
	Sub-Total				75482.48
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				6132.95
	Added Contractor profit @ 7% of total				5283.77
	Total				86899.20
3rd Year Maintenance (2019-20)					
1	Jungle clearance	Ha.	0.5	5456.55	2728.28
2	Raising of Plants in nursery	No.	120	92.49	11098.80
3	Re-opening of pits 100x0.6mx0.6mx0.6m	M ³	21.6	72.75	1571.40
4	Loading and unloading of plants	No.	110	2.73	300.30
5	Carriage of plants	No.	110	22.85	2513.50
6	Carriage of plants Pit to Pit	No.	L/s		500.00
7	Planting of plants	No.	100	14.56	1456.00
8	Irrigation two times	No.	2000	4.56	9120.00
9	Chhapa binding around plants	No.	300	16.14	4842.00
10	Weeding and hoeing once	No.	1000	5.47	5470.00
11	Miscellaneous expenditure	LS			840.00
12	Cost of wages of protection watcher				6547.00
	Sub-Total				46987.28
	Added EPF @ 13%				
	Added ESI @ 3.25%				
	of wages component 50% of total				3817.72
	Added Contractor profit @ 7% of total				3289.11
	Total				54094.

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4th Year Maintenance (2018-19)

1	Jungle Clearance				
2	Cleaning, pruning and spacing	Ha.	0.5	1713.42	856.71
3	Miscellaneous Expenditure	LS		0.00	3526.00
	Sub-Total				4343.00
	Added EPF @ 13%				8725.71
	Added ESI @ 3.25%				
	of wages component 50% of total				
	Added Contractor profit @ 7% of total				708.96
	Total				610.80
	5th Year Maintenance (2017-18)				10045.47

1	Harrowing in plantation				
2	Cleaning, pruning and spacing	Ha.	0.5	1713.42	856.71
3	Miscellaneous Expenditure	LS		0.00	3526.00
	Sub-Total				4343.00
	Added EPF @ 13%				8725.71
	Added ESI @ 3.25%				
	of wages component 50% of total				
	Added Contractor profit @ 7% of total				708.96
	Total				610.80
	6th Year Maintenance (2016-17)				10045.47

1	Harrowing in plantation				
2	Cleaning, pruning and spacing	Ha.	0.5	1713.42	856.71
3	Miscellaneous Expenditure	LS		0.00	3526.00
	Sub-Total				4343.00
	Added EPF @ 13%				8725.71
	Added ESI @ 3.25%				
	of wages component 50% of total				
	Added Contractor profit @ 7% of total				708.96
	Total				610.80
	ABSTRACT OF COST NORMS				10045.47

YEAR OF PLANTATION	Cost (in Rs.)	Cost per plant
FIRST YEAR PLANTATION		
SECOND YEAR MAINTENANCE	315334.70	315.33
THIRD YEAR MAINTENANCE	86899.20	86.90
FOURTH YEAR MAINTENANCE	54094.10	54.09
FIFTH YEAR MAINTENANCE	10045.47	10.05
SIXTH YEAR MAINTENANCE	10045.47	10.05
TOTAL	486464.42	486.46

VATamur-10.6.2021
Principal Chief Conservator of Forests
Haryana, Panchkula