

Full Title of the Project:- Construction of link road Gai Dessa to Bhatta via Magal Thatha and Dewal Kund.

File No.:- FP/JK/ROAD/45770/2020.

Date of Proposal:- 22-06-2020.


**PART- A
DETAIL OF FOREST LAND**


CALCULATION OF TOTAL COST INCLUDING NET PRESENT VALUE (NPV) OF FOREST LAND INVOLVED AS WELL AS COMPENSATORY AFFORESTATION COST FOR CONSTRUCTION OF LINK ROAD FROM GAI DESSA TO BHATTA VIA MANGAL THATHA AND DEWAL KUND BY PWD (R&B) SPL SUB DIVISION DODA

1	Compartment No.	44/Sj
2	Forest Area Involved	2.557 Ha
3	No. of Trees/Poles/Saplings	742
4	Cost of land as per NPV ECO Class –V for 2.557 Ha @ Rs. 8,45,000/- per Ha	2160665
5	Felling and extraction charges of trees	2093124
6	Compensatory Afforestation (cost of plantation & cost of fencing)	1029576
7	Biological measures for stabilization of muck dumping site	183494
	TOTAL	5466859/-

(IN WORDS:RUPEE FIFTY FOUR LAKH SIXTY SIX THOUSAND EIGHT HUNDRED FIFTY NINEONLY)

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Forest Range Officer
Siraj Range
Hq Doda


Executive Engineer
PWD (R&B) Spl. Sub Division
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Divisional Forest Officer
Doda Forest Division Doda

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CALCULATION OF N.P.V.OF FOREST LAND INVOLVED IN CONSTRUCTION OF LINK ROAD FROM GAI DESSA TO BHATA VIA MANGAL THATHA AND DEWAL KUND

1.	Total Forest land involved in Comptt. 44/Siraj	2.557 Ha
2.	Rate per hac as per Hon'ble S.C of India's order dated. 28/03/2008 in I.A No. 826 in 566 and togther I.A regarding he rate of NPV of Forest land (Eco Class-V Dense Forest)	845000.00
3.	NPV of Forest Land Involved	2160665
	Total	2160665

(Rupees Twenty one lakh sixty thousand six hundred sixty five only)

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S.D. (I&B) Special Sub Div
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DETAILED ESTIMATE FOR EXTRACTION OF TREES COMING IN THE PROPOSED ALIGNMENT OF CONSTRUCTION OF LINK ROAD FROM GAI DESSA TO BHATTA VIA MANGAL THATHA AND DEWAL KUND IN COMPTT. No. 44/SJ

Extraction charges of timber.

S.No	Item of Work	Qty	Rate (In rupees)	Amount(in rupees)	Remarks
1.	Enumeration of trees	742 Nos	5.40/- per Tree	4006.8	
2.	Marking of Trees	378 Nos	9.75/- per tree	3685.5	
3.	Felling of trees , hand sawing/ conversion, head load, MT, loading, unloading and its splitting making fit for head load carriage/stocking up to loading point road side	32016 cft	62.06/- per cft	1986912.96	
5	Nikasi(Per CFT)	32016 cft	0.94/- per cft	30095.04	
6	Stacking (Per CFT)	32016 cft	0.88/- per cft	28174.08	
7	Watch & ward for 01 labour for 3 months	3 months	6750/- per month	20250.00	
9.	Over head expenses	0	L/S	200000.00	
Total				2093124.38	

(Rupees: Twenty lakh ninety three thousand one hundred twenty four point three eight only)

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Best quality Timber

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Date of Proposal:- 22-06-2020.

Name of the Forest Division:- Doda Forest Division.

Forest area to be diverted:- 2.557Ha

Detail of land where Compensatory Afforestation to be carried out:

Degraded Forest land: Yes **Area:** 5.2 Ha
Non-Forest land: No **Forest Division:** Doda Forest Division
Range: Siraj **District:** Doda
Tehsil: Bhagwah **Compartment No.** 44/Sj
C.A Site: Mangalthata Village **C.A Area:** 5.2 Ha.

C.A Site Geo-Coordinates:

Starting point: Latitude: 33°17.850' N **Longitude:** 75°29.430' E


Ending point: Latitude: 33°17.876' N **Longitude:** 75°29.505' E

I. Description of C.A Site:

- a. **Soil type:** Sandy Loom with boulders
- b. **Topography:** Hilly
- c. **Slope:** Steep.
- d. **In case of degraded forest land-description of forest land and crown density:** Deodar Kail Conversion working circle with crown density is 20-30%.

Plantation Model: Compensatory Afforestation over an area of 5.2 Hac. of degraded forest land is proposed to be raised. The area selected for this purpose is in village Mangalthata, which is degraded forest. Presently the area supports scattered trees. Whole of the plantation of 5.2 Hac. will be raised in a single compact block inside the degraded forest for such purpose. The area identified for plantation has also been shown on the attached map. Plants @ 1000 plants per hectare will be planted. The species to be planted will be mainly conifer and other misc. species of broad leaved plants. The plantation will be raised in the following year after the approval of FCA proposal and further maintenance and beating up of failures will be done for the subsequent ten years. The scheme will be implemented by Forest Department through DFO, Doda. Total financial Outlay for compensatory plantation scheme is 1029576/- Site is suitable for Compensatory Afforestation. The monitoring will be done as per existing monitoring mechanism in the forest department at present.


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Compensatory Afforestation for degraded forest area

S.No.	Description			Rate (in ₹)	Total amount (in ₹)
		Unit	No.		
A	1st year cost of Afforestation				
1	2nd year maintenance	No.	5200	40.03	208156
2	3rd year maintenance		1300	40.03	52039
3	4th year maintenance		520	40.03	20815.6
4	5th year maintenance		260	40.03	10407.8
5	6th year maintenance		260	40.03	10407.8
6	7th year maintenance		260	40.03	10407.8
7	8th year maintenance		260	40.03	10407.8
8	9th year maintenance		260	40.03	10407.8
9	10th year maintenance		260	40.03	10407.8
	Total		8840		353865.2
B	Other Afforestation Interventions (As per the requirement of the site condition)				
1	Patch Sowing	No. of patches	1560	6.99	10904.4
2	Planting of grass slips	No. of slips	1560	6.35	9906
	Total				20810.4
C.	Fencing:				
1	Square PCC Post Fencing (4 Strand)	Rft	3120	72.78	227073.6
2	Wooden fencing				
3	Chain link fencing				
4	Fencing repair		3120	16.74	52228.8
	Total				279302.4
D	Site Preparation: (Cutting, Grubbing and removal of lantana)	Ha	1.56	22904	35730.24
E	Pruning and Training of existing root stocks:	No.	1560	6.35	9906
	Total C.A Charges				699614.24
F	Soil and water conservation and protection measures like constructon of fire lines and inspection path.				260000
	Total (A+B+C+D+E+F)				959614.24
G	Supervisory/Watch and ward/Overhead/Miscellaneous charges: (10% of the C.A Charges)				69961.424
	Grand Total: (A+B+C+D+E+F+G)				1029575.664

III **Technical Details:** Technical detail of compensatory afforestation scheme are as follow:

i **General detail**

ii **Plantation method:** Poly bags

iii **Spacing:** 2 x 2 m

iv **Species proposed to be planted:** Deodar and Kail

v **Silviculture Operations:** Nil

vi **Soil and Moisture Conservation Works:**

vii **Protection:** (Fencing, Watch and Ward, People's Participation etc): Yes

viii **Proposed monitoring Mechanisim:** Regular patrolling of concerned beat guard

ix **Any other information:** No

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Biological measures for stablization of muck dumping site for construction of road from Gai Dessa to Bhatta via Mangalthata and Dewal Kund.

S.No.	Item of Work	Unit	Quantity	Rate	Amount
1	Fencing :- Using fence post conforming to product code PCFP-3 at spacing of 10' & 5 strands of Galvaized Barbed wire with 2 Criss cross conforming to the product code GA-BW all fence post be fixed in the cement cocree 1:3:6(1 cement:3 coarse sand:6 stone aggregate 40 mm nominal size) block of size 1'6"x1'x1'.	Rft	65	100	6500
2	Afforestation (1st year)				
i	Plantation:- Poly bagged plantng of fast-growing soil binding local species (Trees/Shrubs) in pits of size (45x45x45)cm in staggered fashion along the counter.	Nos.	75	29.34	2200.5
ii	Agave:- Agave bulbs planted between interspacesof plants, open spaces & along the fence line of size.	Nos.	200	15.45	3090
iii	Grass Slips:- (Soil bindin grasses viz: vetivers, Napier, Saccharum munja & Arundo donax)	Nos.	200	6.35	1270
iv	Cutting:- Ipomea/Vitex/Popular/Salix/Mulberry (area specific)	Nos.	50	6	300
v	Seed ball:- Broad casting/dibbling of the seed balls	Nos.	50	2.35	117.5
	Total				6978
3	Maintenance for 9 years : 2nd year @ 25% + 3rd year @ 10% +4th year to 10th year 7x@5%= 70% of afforestation	year			4884.6
4	Geo-Textile Mat	Sq.M	50	300	15000
	Total (1+2+3+4)				33362.6
5	Overhead 10% of total				3336.26
	Grand Total				36698.86
6	Total financial for five identical muck dumping sites				183494.3

* The location of seven muck dmping sites is enclosed alongwith.


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Detail of muck dumping sites for construction of road from Gai Dessa to Bhatta via Mangalhatata and Dewal Kund

S.No.	Muck dumping site	Proposed Length (in metre)	Proposed Width (in metre)	Area proposed to be diverted (in Ha)	Location
1	Dumping site I	25	20	0.05	RD 5/600 to RD 5/625
2	Dumping site II	25	20	0.05	RD 6/400 to RD 6/425
3	Dumping site III	25	20	0.05	RD 6/900 to RD 6/925
4	Dumping site IV	25	20	0.05	RD 8/000 to RD 8/025
5	Dumping site V	25	20	0.05	RD 9/200 to RD 9/225
Total				0.25	


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