



OFFICE OF THE DIVISIONAL FOREST OFFICER DODA
FOREST DIVISION DODA

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Full Title of the Project:- Construction and up-gradation of link road from Bijarni to Lal-Draman Km 1st to Km 10th RD-(600).
File No.:- FP/JK/ROAD/147077/2021.
Date of Proposal:- 10/04/2022.


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 AND UP-GRADATION OF LINK ROAD FROM BIJARNI TO LAL DRAMAN KM 1ST TO KM 10TH RD (600) BY PWD (R&B) SPL SUB DIVISION DODA

1	Compartment No.	85/Sj
2	Forest Area Involved	1.137 Ha
3	No. of Trees/Poles/Saplings	45
4	Cost of land as per NPV ECO Class -V for 1.137 Ha @ Rs. 1005210.00/- per Ha	1142924.00
5	Felling and extraction charges of trees	256494.00
6	Compensatory Afforestation (cost of plantation & cost of fencing)	433619.00
7	Biological measures for stabilization of muck dumping site	110097.00
	TOTAL	1943134.00

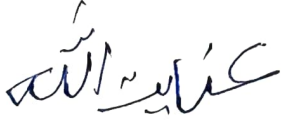
(IN WORDS: RUPEE NINETEEN LAKH FOURTY THREE THOUSAND ONE HUNDRED THIRTY FOUR ONLY)


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B. G. Bhargava



B. K. Kote


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CALCULATION OF N.P.V.OF FOREST LAND INVOLVED IN CONSTRUCTION OF UP-GRADATION OF LINK ROAD FROM BIJARNI TO LAL DRAMAN KM 1ST TO KM 10TH RD-(600).

1.	Total Forest land involved in Comptt. 85/Siraj	1.137 Ha
2	Rate per hac as per Hon'ble S.C of India's order dated. 28/03/2008 in File No. 5-3/2011-FC (Vol-I) regarding revision rate of NPV of Forest land (Eco Class-V Dense Forest)	1005210.00
3	NPV of Forest Land Involved	1142924.00
	Total	1142924.00

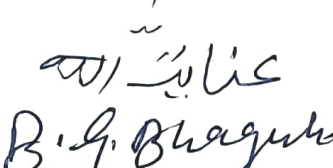
(Rupees Eleven lakh forty two thousand nine hundred twenty four only)

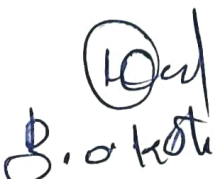

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DETAILED ESTIMATE FOR EXTRACTION OF TREES COMING IN THE PROPOSED ALIGNMENT OF CONSTRUCTION OF LINK ROAD FROM GAI DESSA TO BHATTA VIA MANGAL THATHA AND DEWAL KUND IN COMPTT. No. 44/SJ

Extraction charges of timber.

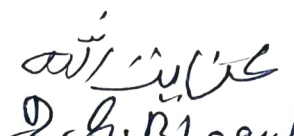
S.No	Item of Work	Qty	Rate (In rupees)	Amount(in rupees)	Remarks
1.	Enumeration of trees	45 Nos	5.40/- per Tree	243.00	
2.	Marking of Trees	45 Nos	9.75/- per tree	439.00	
3.	Felling of trees , hand sawing/ conversion, head load, MT, loading, unloading and its splitting making fit for head load carriage/stocking up to loading point road side	3010.5 cft	62.06/- per cft	186832.00	
5	Nikasi(Per CFT)	3010 cft	0.94/- per cft	2830.00	
6	Stacking (Per CFT)	32016 cft	0.88/- per cft	2650.00	
7	Watch & ward for 01 labour for 3 months	2 months	6750/- per month	13500.00	
9.	Over head expenses	0	L/S	50000.00	
	Total			256494.00	

(Rupees: Two lakh fifty six thousand four hundred ninety four only)


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Name of the Forest Division:- Doda Forest Division.

Forest area to be diverted:- 1.137

Detail of land where Compensatory Afforestation to be carried out:

Degraded Forest land: Yes	Area: 2.30 Ha
Non-Forest land: No	Forest Division: Doda Forest Division
Range: Siraj	District: Doda
Tehsil: Bhagwah	Compartment No. 86/Sj
C.A Site: Mashla Village	C.A Area: 2.30 Ha.

C.A Site Geo-Coordinates patch 1:

Starting point: Latitude: 33°11'39.034" N Longitude: 75°31'19.941" E

Ending point: Latitude: 33°11'37.906" N Longitude: 75°31'20.681" E

C.A Site Geo-Coordinates patch 2:

Starting point: Latitude: 33°11'43.971" N Longitude: 75°31'07.631" E

Ending point: Latitude: 33°11'43.413" N Longitude: 75°31'09.474" 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:** under 0.2

Plantation Model: Compensatory Afforestation over an area of 2.30 Hac. of degraded forest land is proposed to be raised. The area selected for this purpose is in village Mashla, which is degraded forest. Presently the area supports scattered trees. Whole of the plantation of 2.30 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 433619/- 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 for Construction of Bijarni Laldraman Road in Doda Forest Division.

S.No.	Description			Rate (in ₹)	Total amount (in ₹)
		Unit	No.		
A	1st year cost of Afforestation	No.	2300	40.03	92069
1	2nd year maintenance		575	40.03	23017.25
2	3rd year maintenance		230	40.03	9206.9
3	4th year maintenance		115	40.03	4603.45
4	5th year maintenance		115	40.03	4603.45
5	6th year maintenance		115	40.03	4603.45
6	7th year maintenance		115	40.03	4603.45
7	8th year maintenance		115	40.03	4603.45
8	9th year maintenance		115	40.03	4603.45
9	10th year maintenance		115	40.03	4603.45
	Total		3910		156517.3

B Other Afforestation Interventions (As per the requirement of the site condition)

1	Patch Sowing	No. of patches	690	6.99	4823.1
2	Planting of grass slips	No. of slips	690	6.35	4381.5
	Total				9204.6
C.	Fencing:				
1	Square PCC Post Fencing (4 Strand)	Rft			
2	Wooden fencing		1380	68.32	94281.6
3	Chain link fencing				
4	Fencing repair		1380	16.74	23101.2
	Total				117382.8
D	Site Preparation: (Cutting, Grubbing and removal of lantana)	Ha	0.69	22904	15803.76
E	Pruning and Training of existing root stocks:	No.	690	6.35	4381.5
	Total C.A Charges				303289.96
F	Soil and water conservation and protection measures like construction of fire lines and inspection path.				100000
	Total (A+B+C+D+E+F)				403289.96
G	Supervisory/Watch and ward/Overhead/Miscellaneous charges: (10% of the C.A Charges)				30328.996
	Grand Total: (A+B+C+D+E+F+G)				433618.956

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

- General detail
- Plantation method: Poly bags
- Spacing: 2 x 2 m
- Species proposed to be planted: Deodar, Kail.
- Silviculture Operations: Nil
- Soil and Moisture Conservation Works: PWD (R&B) Spl. Sub Divis
- Protection: (Fencing, Watch and Ward, People's Participation etc): Yes
- Proposed monitoring Mechanisim: Regular patrolling of concerned beat guard
- Any other information: No

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Biological measures for stablization of muck dumping site for Construction and up-gradation of Bijarni Lal-Draman Road in Doda Forest Division.

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 coecee 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
	Total				36698.86
6	Total financial for three identical muck dumping sites				110096.6

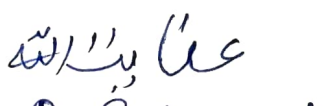

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