

Full Title of the Project:- Construction and upgradation of Bharath to Keshwan link road upto Ingwan Gali Km 1st to 13th.

File No.:- FP/JK/ROAD/46463/2020.

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 BHARATH TO KESHWAN UPTO INGWAN GALI BY PWD (R&B) SPL SUB DIVISION DODA

1	Compartment No.	58b/Kuntwara
2	Forest Area Involved	6.77 hac
3	No. of Trees/Poles	374
4	Cost of land as per NPV ECO Class -V for 6.77 Ha @ Rs. 1292850/- per Ha	8752595
5	Felling and extraction charges of trees	1826460
6	Compensatory afforestation (cost of plantation & Cost of fencing)	2694596
7	Biological measures for stabilization of muck dumping site	256892
	TOTAL	13530543/-

(IN WORDS: ONE CRORE THIRTY FIVE LAKH THIRTY THOUSAND FIVE HUNDRED FORTY THREE ONLY)


B. O. Bharath


Range Officer
Kuntwara Range
Doda


#374


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


Divisional Forest Officer
Doda Forest Division Doda

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**CALCULATION OF N.P.V.OF FOREST LAND INVOLVED IN
CONSTRUCION OF BHARATH TO KESHWAN ROAD**

1.	Total Forest land involved in Comptt. 58/Kuntwara	6.77Hac
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)	1292850.00
3	NPV of Forest Land Involved	8752595.00
	Total	8752595.00

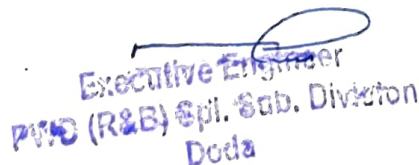
(Rupees Eighty seven lakh fifty two thousand five hundred ninety five only)


G. O. Bhattacharya


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Kuntwara Range
Doda






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Date of Proposal:- 22-06-2020.

Name of the Forest Division:- Doda Forest Division.

Forest area to be diverted:- 6.77Ha

Detail of land where Compensatory Afforestation to be carried out:

Degraded Forest land: Yes

Area: 14 Ha

Non-Forest land: No

Forest Division: Doda Forest Division

Range: Kuntwara

District: Doda

Tehsil: Bagla

Compartment No. 58/Kt

C.A Site: Bharath Village

C.A Area: 14 Ha.

C.A Site Geo-Coordinates:

Starting point: Latitude: 33°14.966' N

Longitude: 75°37.684' E

Ending point: Latitude: 33°14.968' N

Longitude: 75°37.576' E

I. Description of C.A Site:

a. **Soil type:** Sandy Loom

b. **Topography:** Hilly

c. **Slope:** Medium and gentle.

d. **In case of degraded forest land-description of forest land and crown density:** West

Himalayan high level blue-pine forest (13/C/4) with crown density is 0.1

Plantation Model: Compensatory Afforestation over an area of 14 Hac. Of degraded forest land is proposed to be raised. The area selected for this purpose is in village Bharath, which is degraded forest. Presently the area supports scattered trees. Whole of the plantation of 14 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 2694596/- 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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Divisional Forest Officer
Doda Forest Division Doda

H. J. Jais
Assistant Executive Engineer
P.W.D. (R&B) Sub-Division (Exst)
DODA

[Signature]
Executive Engineer
PWD (R&B) Spl. Sub Division
Doda

Compensatory Afforestation for degraded forest area

S.No.	Description			Rate (in ₹)	Total amount (in ₹)
	Unit	No.			
A	1st year cost of Afforestation			40.03	560420
1	2nd year maintenance			40.03	140105
2	3rd year maintenance			40.03	56042
3	4th year maintenance			40.03	28021
4	5th year maintenance			40.03	28021
5	6th year maintenance			40.03	28021
6	7th year maintenance			40.03	28021
7	8th year maintenance			40.03	28021
8	9th year maintenance			40.03	28021
9	10th year maintenance			40.03	28021
	Total				952714

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

1	Patch Sowing	No. of patches	4200	6.99	29358
2	Planting of grass slips	No. of slips	4200	6.35	26670
	Total				56028
C.	Fencing:				
1	Square PCC Post Fencing (4 Strand)	Rft	8400	72.78	611352
2	Wooden fencing				
3	Chain link fencing				
4	Fencing repair		4200	16.74	70308
	Total				681660
D	Site Preparation: (Cutting, Grubbing and removal of	Ha	4.2	22904	96196.8
E	Pruning and Training of existing root stocks:	No.	4200	6.35	26670
	Total C.A Charges				1813268.8
F	Soil and water conservation and protection measures like constructon				700000
	Total (A+B+C+D+E+F)				2513268.8
G	of the C.A Charges)				181326.88
	Grand Total: (A+B+C+D+E+F+G)				2694595.68

- 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 Mechanism:** Regular patrolling of concerned beat guard
 - ix **Any other information:** No

Name

Divisional Forest Officer
Doda Forest Division Doda

[Signature]

Assistant Executive Engineer
P.W.D. (R&B) Sub-Division (Exst)
DCDA

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Executive Engineer
PWD (R&B) Spl. Sub Division
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Biological measures for stablization of muck dumping site for construction and up-gradation of Bharath to Keshwanlink road upto Ingwan Gali Km 1st to 13th.

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 seven identical muck dumping sites				256892.02

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

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Range Officer
 Kuntwara Range
 Kuntwara Range
 Doda

Naresh
 Divisional Forest Officer
 Divisional Forest Officer
 Doda Forest Division Doda

**DETAILED ESTIMATE FOR EXTRACTRION OF TREES COMING IN THE
PROPOSED ALIGNMENT OF CONSTRUCION OF BHARATH TO KESHWAN ROAD
UPTO IGNWAN GALI IN COMPTT. No. 58/Kt**

Extraction charges of timber.

S.No	Item of Work	Qty	Rate (In rupees)	Amount(in rupees)	Remarks
1.	Enumeration of trees	519 Nos	5.40/- per Tree	2802.6	
2.	Marking of Trees	374 Nos	9.75/- per tree	3646.5	
3.	Felling of trees , hand sawing/ conversion, head load, MT, loading, unloading and its splitting making fit for head load carriage/stocking upto loading point road side	27861cft	62.06/- per cft	1729053.66	
5	Nikasi(PerCFT)	27861cft	0.94/- per cft	26189.34	
6	Stacking (PerCFT)	27861cft	0.88/- per cft	24517.68	
7	Watch & ward for 01 labour for 3 months	3 months	6750/- per month	20250.00	
9.	Over head expenses	0	L/S	20000.00	
Total				1826460	

(Eighteen lakh twenty six thousand four hundred sixty)

Ant
Post Guard

PK
Mr. Bherath

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