



OFFICE OF THE DIVISIONAL FOREST OFFICER DODA
FOREST DIVISION DODA

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**The Conservator of Forests,
Chenab Circle, Doda**

No: - DFO/D 247-48

Dated:- 28-04-2021

**Sub:- Proposal for diversion of Forest land for construction and up-gradation of
Bharath to Keshwan link road upto Ingwan Gali Km 1st to 13th.**

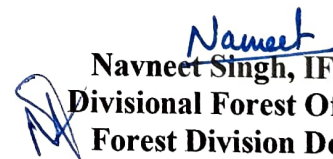
Ref:- Proposal No. FP/JK/Road/46463/2020.

Sir,

With reference to the above cited proposal, this office is in receipt of EDS regarding Compensatory Afforestation and stabilization of muck dumping sites vide Addl. Pr. Chief Conservator of Forests, Nodal Officer's (FCA) letter No. PCCF/FCA/3135/6198-6200 dated 30-03-2021. In this regard, kindly find enclosed herewith requisite documents. The detail is as under:

1. Compensatory Afforestation plan as approved by the Pr.CCF (HoFF) circulated vide circular No. PCCF/FCA/1119/6086-6131 dated 27/03/2021. (copy enclosed as Annexure-A)
2. Proposal for biological measure for stabilization of muck dumping Sites. (copy enclosed as Annexure-B)
3. Model plan related to Engineering measures for stabilization of muck dumping site. (copy enclosed as Annexure-C)

Yours faithfully,


Navneet Singh, IFS
Divisional Forest Officer
Forest Division Doda

Copy submitted to the Addl. Principal Chief Conservator of Forests, Nodal Officer (FCA) for favour of information please. This is in reference to his office letter No. PCCF/FCA/3135/6198-6200 dated 30-03-2021.

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.

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: Bharath 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.
- 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 - 5%.

- II. **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 @ 700 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 2457540/- 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 | No. | 9800 | 40.03 | 392294 |
| 1 | 2nd year maintenance | | 2450 | 40.03 | 98073.5 |
| 2 | 3rd year maintenance | | 980 | 40.03 | 39229.4 |
| 3 | 4th year maintenance | | 490 | 40.03 | 19614.7 |
| 4 | 5th year maintenance | | 490 | 40.03 | 19614.7 |
| 5 | 6th year maintenance | | 490 | 40.03 | 19614.7 |
| 6 | 7th year maintenance | | 490 | 40.03 | 19614.7 |
| 7 | 8th year maintenance | | 490 | 40.03 | 19614.7 |
| 8 | 9th year maintenance | | 490 | 40.03 | 19614.7 |
| 9 | 10th year maintenance | | 490 | 40.03 | 19614.7 |
| | Total | | 16660 | | 666899.8 |
| 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 | | 8400 | 16.74 | 140616 |
| | Total | | | | 751968 |
| D | Site Preparation: (Cutting, Grubbing and removal of lantana) | Ha | 4.2 | 22904 | 96196.8 |
| E | Pruning and Training of existing root stocks: | No. | 4200 | 6.35 | 26670 |
| | Total C.A Charges | | | | 1597762.6 |
| F | Soil and water conservation and protection measures like constructon of fire lines and inspection path. | | | | 700000 |
| | Total (A+B+C+D+E+F) | | | | 2297762.6 |
| G | Supervisory/Watch and ward/Overhead/Miscellaneous charges: (10% of the C.A Charges) | | | | 159777 |
| | Grand Total: (A+B+C+D+E+F+G) | | | | 2457539.6 |

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 Muck dumping sites
" Annexure B "

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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**Detail of muck dumping sites for construction and up-gradation of Bharath to Keshwan link road upto Ingwan Gali
Km 1st to 13th**

| 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 4/125 to RD 4/150 |
| 2 | Dumping site II | 25 | 20 | 0.05 | RD 4/850 to RD 4/875 |
| 3 | Dumping site III | 25 | 20 | 0.05 | RD 5/475 to RD 5/500 |
| 4 | Dumping site IV | 25 | 20 | 0.05 | RD 7/000 to RD 7/025 |
| 5 | Dumping site V | 25 | 20 | 0.05 | RD 10/925 to RD 10/950 |
| 6 | Dumping site VI | 25 | 20 | 0.05 | RD 12/675 to RD 12/700 |
| 7 | Dumping site VI | 25 | 20 | 0.05 | RD 13/375 to RD 13/400 |
| Total | | | | 0.35 | |


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Engineering measures for
Muck disposal**OFFICE OF THE EXECUTIVE ENGINEER PWD (R&B) SPECIAL SUB DIVISION DODA**

The Divisional Forest Officer,
Forest Division,
Doda.

No. 425-28.
Dt. 12-04-2021

Subject :- Proposal for diversion of Forest land for construction and upgradation of Bharath to Keshwan link road up Ingwan Gali kim 1st to 13th.

Ref.:- Your letter No. DFO/D 58-59 dated 02-04-2020.

Sir,

With reference to the subject cited above kindly find enclosed here with Model plan related to Engineering measures for stabilization of Muck Dumping in forest area.

Yours Faithfully



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



Copy to the:-

- 01/- Superintending Engineer PWD (R&B) Circle Doda for favour of information please.
- 02/- Asstt. Executive Engineer East Sub Division Doda for information
- 03/- LAC for reference.

Model Plan related to Engineering Measures for Stabilization of Muck Dumping Sites in Forest Area .

Typical estimate for the construction of Crated Wall to protect dumping sites of surplus Muck /Excavated Material in forest as per Engineering Measures.

Taking length of Crated wall = $7 \times 25.00 \text{ mtr} = 175.00 \text{ mtr}$

Trench Excavation in Dense soil

for structure

$$\begin{aligned} &= 1 \times 175.00 \text{ mtr} \times 1.20 \text{ mtr} \times 0.70 \text{ mtr} \\ &= 84.00 \text{ Cum @ Rs 120.00/Cum} \\ &= \text{Rs } 10080.00 \end{aligned}$$

For two layer Crated Wall ,


Quantity


Amount

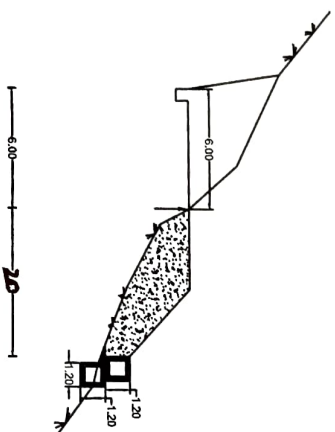
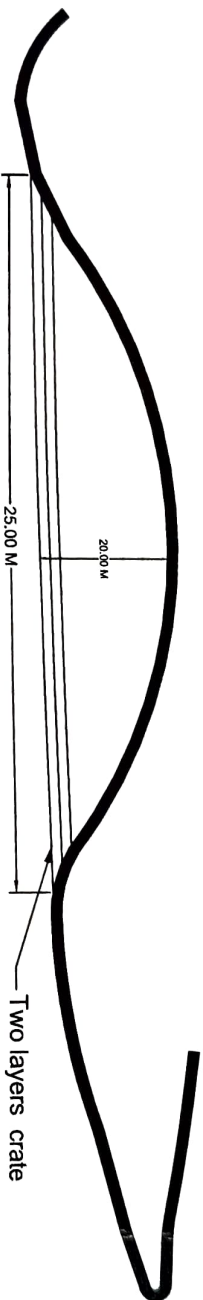
$$\begin{aligned} &= 2 \times 175.00 \text{ mtr} \times 1.20 \text{ mtr} \times 1.20 \text{ mtr} = 504.00 \text{ Cum} \\ &= 504.00 \text{ Cum @ Rs. 2000.00 /Cum (Including cost of} \\ &\quad \text{Crates and labour for handling of available stones)} \\ &= \text{Rs } 1008000.00 \end{aligned}$$

$$\begin{aligned} \text{Total Amount for 175.00 mtrs Two Layered Crated Wall} &= \text{Rs.}(10080.00+1008000.00) \\ &= \text{Rs } 1018080.00 \end{aligned}$$

$$\begin{aligned} \text{Rate per Mtr.} &= \text{Rs } 5817.60 \text{ (Say 5818/Mtr).} \end{aligned}$$


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Typical Site plan and X
Section for Stabilization of
Muck/Surplus Excavated
Material in Forest Area
Scale : Site Plan : 1CM = 6M
X Section : 1Cm = 1M

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