

No.FCA /RK/ 478 /

H.P. Forest Department.

Dated : Dharamshala, the/ 28/11/23

From:

Divisional Forest Officer,
Dharamshala Forest Division,
Dharamshala.

To:

The Executive Engineer,
Shahpur Division,
HPPWD Shahpur

Subject: Diversion of 4.5259 Ha. of forest land in favour of HPPWD, for the construction of road from Kanol to Morch (Km 0/0 to 9/140), within the jurisdiction of Dharamshala Forest Division, Distt. Kangra, Himachal Pradesh. (Online Proposal No. FP/HP/ROAD/70377/2020).

Sir / Ma'am,

Kindly refer to Govt. of India Ministry of Environment, Forests & Climate Change, Sub-Office, Shimla of Regional Office, Chandigarh, CGO Complex, Longwood Shimla -171001, Office Letter No. F.C./HPB/06/50/2021 dated 19.10.2023 addressed to Addl. Chief Secretary (Forests) to the GoHP and copy thereof endorsed to Director General of Forests (FC) Ministry of Environment, Forests & Climate Change, Indira Environment Building, Jorbag Road, Aliganj, New Delhi, and Nodal Officer-cum-Addl. Chief Conservator of Forests (FCA) GoHP Forest Department, Talland, Shimla, on the subject cited above.

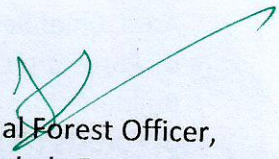
2. In this context it is intimated that the Govt. of India has conveyed "Stage-I Approval" under the provisions of Forest (conservation) Act, 1980 for the diversion of forest land on the subject cited above diversion case. As already mentioned in the approval in question that the GOI has developed an e-payment module forest clearance portal for online remittance of the amount under various components i.e. CA & NPV, therefore the payments towards above components shall be deposited online through the e-payment portal such online Challan mode in Ad-hoc CAMPA and the payment with respect to the departmental charges on Compensatory Afforestation is to be deposited in State Govt. Treasury. The component wise detail of amount and mode of deposition is as under :

| Component | Amount (Rs.) | Mode of Payment | Where the amount is to be deposited |
|---|--------------|-----------------|--|
| Net Present Value (NPV) | 45,49,480/- | e-payment | Through Parivesh Online portal, as per stipulation No. i and iii (A) and v and vi (B) of "Stage-I Approval in the Adhoc CAMPA Account. |
| Compensatory Afforestation | 28,24,064/- | e-payment | |
| 5% Contingency on CA Scheme | 1,41,203/- | e-payment | |
| Cost of Soil & Moisture Conservation Plan | 2,88,275/- | e-payment | |
| Cost of Wild Life Management Plan 2.0 % Lumpsum | 8,20,000/- | | |

| | | | |
|--|-------------|------------------|---|
| Total Amount to be deposited through online (CAMP Account) | 86,23,022/- | | |
| Departmental Charges 17.5% on CA | 5,18,922/- | State Govt. Head | State Head with DFO Dharamshala through RTGS in Account No. No.10520100005843 IFSC BARB0DHAHAN, Bank of Baroda, Kotwali Bazar, Dharamshala. |
| Total Amount to be deposited in State Head | 5,18,922/- | | |
| Grand Total (Rs.) | 91,41,944/- | | |

3 In addition to above, you are also requested to go through the other stipulations of the "in-principle" approval and compliance be reported to this office complete in all respect, so that the Stage-II approval could be sought from the competent authority. It may also be ensured that the proposed forest land may not be used till final approval is accorded by the competent authority.

Encl: As stated.


Divisional Forest Officer,
Dharamshala Forest Division,
Dharamshala.

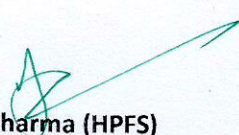
**DIVERSION OF 4.5259 HA. OF FOREST LAND FOR CONSTRUCTION OF LINK ROAD FROM
KANOL TO MORCH RD 0/0 TO 9/140 KM, DISTRICT KANGRA (H.P.)**

FILE NO. : FP/HP/ROAD/70377/2020

DATE OF PROPOSAL : 02/12/2020

BILL FOR NET PRESENT VALUE

| Eco-Value Class | Area in Hectare | Rate(per Hectare) | Total Amount (Rs.) |
|---------------------|-----------------|--------------------|--------------------|
| Class V Open Forest | 4.5259 | 1005210.00 | 4549480.00 |
| TOTAL AMOUNT | | | 4549480.00 |


Dinesh Sharma (HPFS)
Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

DIVERSION OF 4.5259 HA. OF FOREST LAND FOR CONSTRUCTION OF LINK ROAD FROM KANOL TO MORCH RD 0/0 TO 9/140 KM, DISTRICT KANGRA (H.P.)

FILE NO. : FP/HP/ROAD/70377/2020

DATE OF PROPOSAL :

CHECK LIST SERIAL NUMBER: - 17

"SCHEME FOR COMPENSATORY AFFORESTATION"

Detail scheme for Compensatory Afforestation to be carried out in lieu of 4.5259 ha. of forest area to be diverted for the construction of Link Road from Kanol to Morch Road RD 0/0 to 9/140 KM in District Kangra H.P.

1. Detail of degraded forest land :

| | | |
|--|--|--------------------------------|
| District Kangra, Tehsil Shahpur, Division Dharamshala. | Shahpur Range, Block/Comptt. No. UP 139 K Kanol C3 | Area to be Afforested – 9.1 HA |
|--|--|--------------------------------|

2. Description of Area

| | | |
|----|--|-----------------|
| a. | Whether the site selected for Compensatory Afforestation is a land bank or not | Land Bank |
| b. | If the CA site is other than the land bank, reasons be given | Not Applicable |
| c. | In case of non- forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary | Not Applicable |
| d. | Soil type | Sandy Loam |
| e. | Topography : a.) Hilly/Undulating /Plain b.) Slope- Steep/Medium/Gentle | Hilly Medium |
| f. | Whether the area is bearing any root stock of vegetation | Yes |

3. Plantation Model

Copy of the approved Compensatory Afforestation Scheme/Model showing component wise physical and financial breakup to be enclosed.

4. Schedule of Plantation Programme

Detail of year wise break-up of requirements of funds is as under:-

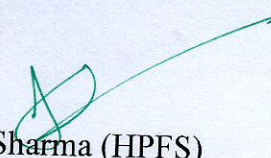
| YEAR | AREA | TOTAL AMOUNT |
|-----------------------------|-----------|--------------|
| 0 Year | 9.10 Hac. | |
| 1 st Year | 9.10 Hac. | 1354303 |
| 2 nd Year | 9.10 Hac. | 257658 |
| 3 rd Year | 9.10 Hac. | 187151 |
| 4 th Year | 9.10 Hac. | 102493 |
| 5 th Year | 9.10 Hac. | 109819 |
| 6 th Year | 9.10 Hac. | 117135 |
| 7 th Year | 9.10 Hac. | 124461 |
| 8 th Year | 9.10 Hac. | 131777 |
| 9 th Year | 9.10 Hac. | 139103 |
| 10 th Year | 9.10 Hac. | 146419 |
| TOTAL (Rs.) | | 153745 |
| Contingency Charges 5 % | | 2824064 |
| TOTAL (Rs.) | | 141203 |
| Departmental Charges 17.5 % | | 2965267 |
| TOTAL (Rs.) | | 518922 |
| | | 3484189 |

5. Technical details

Technical details of Compensatory Afforestation Scheme are as follows:-

| | | |
|----|--|---|
| a. | General Details | Area for Compensatory Afforestation in Forest Range Shahpur Area 9.1 Hac. |
| b. | Spacing | 3.0 X 3.0 |
| c. | Species | Mix Broad Leave |
| d. | Plantation Method | By pits 30 cm & 45 cm. |
| e. | Soil and Moisture Conservation Works | Check dam / Retaining walls / Vegetative check dam |
| f. | Protection (Fencing, Watch man, People's Participation etc.) | Fencing, Watch man, People's Participation etc. Fencing 5 Stand Barbed Wire interlacing with thorny bushes. |
| g. | Proposed Monitoring Mechanism | Proper inspection of the area by field staff & officers of the Department. |
| h. | Any other information | N.A. |

Place : Dharamshala
Dated : 28-11-2023


Dinesh Sharma (HPFS)
Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

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| 2nd Year Maintenance Cost (20 % Beating Up): | | | | | | |
|--|---|---------|-----|------|------|------|
| 1 | Re-digging of Pits 45 x 45 x 45 cm | No. | 220 | 4.77 | 7.00 | 0.00 |
| 2 | Filling of Pits 45 x 45 x 45 cm | No. | 220 | 2.72 | 3.99 | 0.00 |
| 3 | Planting of Plants raised in P/Bags | No. | 220 | 2.18 | 3.20 | 0.00 |
| 4 | Carriage of Plants in P/Bags over a distance of 2 Km uphill/ downhill | Km/ No. | 220 | 1.90 | 5.57 | 0.00 |
| 5 | Repair of Fencing | Rmt. | 60 | 1.80 | 0.72 | 0.00 |
| Total/ 2nd Year Maintenance Cost | | | | | | 0 |
| or Say | | | | | | 7680 |

| 3rd Year to 10th Year Maintenance Cost (10 % Beating Up): | | | | | | |
|---|---|---------|-----|------|------|------|
| 1 | Re-digging of Pits 45 x 45 x 45 cm | No. | 110 | 4.77 | 3.50 | 0.00 |
| 2 | Filling of Pits 45 x 45 x 45 cm | No. | 110 | 2.72 | 1.99 | 0.00 |
| 3 | Planting of Plants raised in P/Bags | No. | 110 | 2.18 | 1.60 | 0.00 |
| 4 | Carriage of Plants in P/Bags over a distance of 2 Km uphill/ downhill | Km/ No. | 110 | 1.90 | 2.79 | 0.00 |
| 5 | Repair of Fencing | Rmt. | 60 | 1.80 | 0.72 | 0.00 |
| Total/ 3rd Year Maintenance Cost | | | | | | 0 |
| or Say | | | | | | 3975 |

| F | Maintenance Cost | Year | Amount | No. of Plan ts | Cost of Plants | Total Amount | Increase % | Increased Amount | Total Maintenance Cost |
|----|--------------------------------------|------|--------|----------------|----------------|--------------|------------|------------------|------------------------|
| 1 | 1st year Maintenance | | 11385 | 330 | 37 | 23595 | 20% | 4719 | 28314 |
| 2 | 2 nd year Maintenance | | 7680 | 220 | 37 | 15820 | 30% | 4746 | 20566 |
| 3 | 3 rd year Maintenance | | 3975 | 110 | 37 | 8045 | 40% | 3218 | 11263 |
| 4 | 4 th year Maintenance | | 3975 | 110 | 37 | 8045 | 50% | 4023 | 12068 |
| 5 | 5 th year Maintenance | | 3975 | 110 | 37 | 8045 | 60% | 4827 | 12872 |
| 6 | 6 th year Maintenance | | 3975 | 110 | 37 | 8045 | 70% | 5632 | 13677 |
| 7 | 7 th year Maintenance | | 3975 | 110 | 37 | 8045 | 80% | 6436 | 14481 |
| 8 | 8 th year Maintenance | | 3975 | 110 | 37 | 8045 | 90% | 7241 | 15286 |
| 9 | 9 th year Maintenance | | 3975 | 110 | 37 | 8045 | 100% | 8045 | 16090 |
| 10 | 10 th year Maintenance | | 3975 | 110 | 37 | 8045 | 110% | 8850 | 16895 |
| G | Total Maintenance Cost 1 to 10 Years | | | | | | | | 161512 |

| Abstract of Cost | | |
|------------------|---|---------------|
| H | Total Plantation Cost (E) | 148825 |
| I | Total Maintenance Cost for 10 years (G) | 161512 |
| | Total | 310337 |
| J | Constituency Charges @ 5% | 15517 |
| | Total | 325854 |
| K | Departmental Charges @ 17.5% | 57024 |
| | Grand Total (H to K) | 382878 |
| | Total Cost of CA for 1 ha | 382878 |

Total Cost of CA for 9.1 ha is Rs 382878 x 9.1 ha = Rs 34,84,189/-

Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

SOIL & MOISTURE CONSERVATION PLAN FOR CONSTRUCTION OF LINK ROAD FROM KANOL TO MORCH IN SUB-TEHSIL DARINI, DISTRICT KANGRA

Himachal Pradesh is a hilly terrain with rolling topography and sloppy lands. The rain fall is high in rainy season which add the problems of soil and moisture conservation, where water scarcity is experienced in other seasons. Keeping in view, the importance of soil and moisture conservation, the Forest Department is implementing soil conservation and soil erosion control schemes in various projects being implemented for non-forestry use. The detail of various measures adopted for soil and moisture conservation plan are as under :

a. BIOLOGICAL MEASURES

Biological or vegetative measures will be taken as they are eco- friendly, sustainable and cost effective. These measures are normally adopted on lands milder slopes, less runoff and sediment flow.

Objectives

- To reduce splash erosion by moderating the impact of rain drops.
- To reduce runoff velocity and increase infiltration opportunity time.
- To slow down wind speed.
- To trap fine soil and nutrients.
- To improve physio-chemical properties of the soil and help in conserving moisture in low rainfall areas.

Types of Biological Measures

- Vegetative Barriers
- Bamboo Plantation
- Plantation of Salix species

b. MECHANICAL MEASURES

The mechanical measures are also proposed alongwith biological measures to check erosion to a desired level due to high velocity of run off or discharge. The mechanical measures not only check soil erosion but also conserve moisture for plantation and maintain green cover. Basically these measures constitute a series of mechanical barriers constructed across the slope to reduce or break the length of slope only or both the length and degree of slope to dissipate the energy of flowing water.

The selection and suitability of engineering control measures to be adopted under different locations depend on soil depth, rainfall and land slope.

- Loose Stone Check Walls
- Gabion Structures

c. DRAINAGE LINE TREATMENT

Drainage line which carry runoff and sediment flow. They may have different forms such as drainage channels, gullies, natural / artificial waterways, streams, rivers or torrents.

Objectives:-

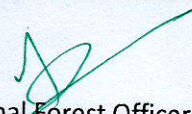
- Check soil erosion in the channel bed and adjoining lands.
- Improve moisture in the land.
- Protect banks/side slopes from undercutting or scouring.
- Recharge ground water.
- Flow guidance, bank protection and / or land reclamation in the downstream torrents.

d. COST ESTIMATION

| SR.NO. | NAME OF WORK | DESCRIPTION OF WORK | ESTIMATED AMOUNT |
|---|--|---------------------|------------------|
| 1. | Main Nala (Maner Khad) | | |
| a. | Crate Protection Work | 25 x 1.00 x 0.60 | 1,33,700/- |
| b. | Step 1 | 25 x 1.30 x 1.00 | |
| c. | Step 2 | 25 x 1.00 x 1.00 | |
| 2. | Nala 2 (Burichhoh Nala) | | |
| a. | Crate Protection Wall | 5 m | 25,000/- |
| b. | Crate Protection Wall | 10 m | 35,000/- |
| c. | Crate Protection Wall | 15 m | 50,000/- |
| d. | Crate Breast Wall | 5 m | 25,000/- |
| 3. | Bamboo Plantation (Nursery Cost @ Rs. 45/- per Plant) | 25 x 45 | 1,125/- |
| 4. | Salix Plantation (Nursery Cost @ Rs 57/- per plant.) | 50 x 57 | 2,850/- |
| 5. | Carriage of Plants (Rs. 35 per Plant) | 75 x 35 | 2,625/- |
| 6. | Digging of pit for plantation. | 75 x 42 | 3,150/- |
| 7. | Planting Cost @ Rs. 16 per Plant | 75 x 16 | 1,200/- |
| 8. | Cost of Barbed wire Fencing for protection of Plants @ Rs. 60/- per plant. | 75 x 60 | 4,500/- |
| 9. | Irrigation as per need | Lumsum | 1,500/- |
| 10. | Maintenance Cost for 10 Years | | 2,625/- |
| Total Cost of Soil & Moisture Conservation Plan | | | 2,88,275/- |


Dated : 28-11-2023

Place : Dharamshala


Divisional Forest Officer
Dharamshala Forest Division
Dharamshala

Calculation Sheet of Wildlife Management Plan for Diversion of 4.5259 hac. of Forest Land for the Construction of Link Road from Kanol to Morch in Sub-Tehsil Darini, District Kangra

| Sr. No. | Description | | Amount (Rs. In Lakh) |
|--|--|-------------|-------------------------|
| 1 | Total Cost of Project (Rs.) | | 410.0000 |
| 2 | 2 % Cost of Wildlife Managment Plan | 410.00 x 2% | 8.200 |
| 3 | Cost of Wildlife Management Plan to be Deposited | | 8.200 |
| Rupees Eight Lakh and Twenty Thousand Only | | | |


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