

**CHECK LIST NO- 17**

**Full Title of Project: - Diversion of 0.6972 ha. forest land for extraction of Sand, Stone & Bajri in Muhal Firnoo in favour of M/s Ved Kumar.**

**File No :- FP/HP/MIN/40928/2019**

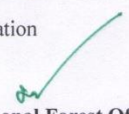
**LOCATION MAP**

Location Map of Non Forest / Degraded Forest Area identified for Compensatory Afforestation in lieu of proposal for diversion of 0.6972 hac. of forest land for extraction of minor minerals such as sand, stone & bajri at Muhal Firnoo, Forest Range Seri, Karsog Forest Division as under:

Type of land	: Other Forest Land	Name of Muhal : Firnoo
Tehsil	: Karsog	District : Mandi
Forest Range	: Seri	Forest Division : Karsog
Khasra No.	: 495/60	
Block No./ Compartment/No./ Survey No.	: H43F7	
CA Area in Hac.	: 1.3944 hac.	

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Map attached of the area to be taken for compensatory afforestation

  
**Divisional Forest Officer,  
Karsog Forest Division,HP.**

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**“SCHEME FOR COMPENSATORY AFFORESTATION”**

Detailed scheme for 1.3944 ha. Compensatory Afforestation and its maintenance for 10 years to be carried-out in lieu of diversion of forest land 0.6972 ha. for the extraction of minor mineral such as sand, stone & bajri at Muhal Firnoo, in Tehsil Karsog, Distt. Mandi, HP in jurisdiction of Karsog Forest Division in Distt. Mandi HP is given as under:-

**1. Detail of degraded forest land/ non-forest land:-**

Distt. : Mandi

Village : Sainjali

Tehsil : Karsog

Distt. : Mandi, HP

Name of Forest Division:- Karsog Forest Division

Range: Seri

Block/ Compartment/ Survey No. **H43F7**

Area to be afforested: 1.3944 hac.

**2. Description of area:-**

I) Whether the site selected for Penal compensatory Afforestation is a land bank or not:  
**No (Other Forest Land).**

II) If CA site is other than the land bank, reasons be given: **The CA site is selected as per the guideline/ letter No. 11-423/2011-FC dated 16.11.2018 & 02.04.2019.**

III) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: adjoining the forest

IV) Soil type: Sandy loam

V) Topography:

(a) Hilly/undulation/Plain: Hilly

(b) Slope : Steep/ Medium/ Gentle : Medium to Gentle

VI) Whether the area is bearing any root stock of vegetation: No tree species exist in the area expect for some bushes stuff.



**3. Plantation Model:-**

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

**4. Schedule of Plantation Programme:-**

**DETAIL OF YEAR-WISE BREAK UP OF REQUIREMENTS OF FUNDS IS AS PER GENERAL ABSTRACT GIVEN BELOW:-**

C A BILL							
Sr. No.	Particulars	Area in ha.	Year	Rate per hac.	Cost escalation	Rate after applying cost of escalation	Amount
1	New plantation over in area of 1.3944 ha. (Non-Forest land over in Khasra No. 495/60 in Muhal Firnoo)	1.3944	2020-21	100400	10%	110440	153998
2	1st year maintenance	1.3944	2021-22	14900	20%	17880	24932
3	2nd year maintenance	1.3944	2022-23	10000	30%	13000	18127
4	3rd year maintenance	1.3944	2023-24	5100	40%	7140	9956
5	4th year maintenance	1.3944	2024-25	5100	50%	7650	10667
6	5th year maintenance	1.3944	2025-26	5100	60%	8160	11378
7	6th year maintenance	1.3944	2026-27	5100	70%	8670	12089
8	7th year maintenance	1.3944	2027-28	5100	80%	9180	12801
9	8th year maintenance	1.3944	2028-29	5100	90%	9690	13512
10	9th year maintenance	1.3944	2029-30	5100	100%	10200	14223
11	10th year maintenance	1.3944	2030-31	5100	110%	10710	14934
Total initial planting and 10 year maintenance:-							296617
12	Vegetative, Dry Stone, Brushwood Check Dam	1.3944		35000	10%	38500	53684
Total initial planting and 10 year maintenance:-							350301
Added Departmental Charges @17.5%							61303
Contingency Charges @5%							17515
Grand Total							429119


**5. Technical Details: -**

- i) **General Details:-** An area of 1.3944 hac. will be taken up for planting under compensatory scheme in Muhal Sainjali Khasra No. 495/60 (Other Forest Land). The area will be protected by Barbed wire be fencing and a mixture of Conifer and B/L species will be planted. 1100 plants will be planted in all in 1.00 hac @ 1100 plants per hac. (Mixture of plant shrubs and grasses).

- ii) **Spacing:** - 3mtr x 3mtr.
- iii) **Species:** - Pine, Robinia, Shisham, Daroo etc.
- iv) **Plantation Method:** - Nursery grown one year old plants (in Polythene bags as well as naked root) will be planted in 30x30x30cm. and 45x45x45cm pits in the selected area. Bush cutting will be done in the infested area. The plantation will be maintained for subsequent 10 years in which beater up of failures will be done. The plantation will be rain fed.
- v) **Soil and Moisture Conservation Works:** - Contour trenching will be done over the entire area to conserve the available moisture during rainy season so that moisture regime in the area is improved. Minor Soil conservation works like gully plugging, check walls will be done wherever required.
- vi) **Protection (Fencing, Watch man, People's Participation etc.):** - Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.
- vii) **Proposed Monitoring Mechanism:** - The plantation will be monitored as per existing monitoring mechanism in the forest department. The plantation will also be monitored by GOI representatives as per instructions. The plantation site will be approachable from NH - 21 from Karsog.
- viii) **Any other information:** - Nil

Date:

Place: Karsog

  
(R.K. Sharma) HPFS



**SITE SPECIFIC COMPENSATORY AFFORESTATION SCHEME FOR THE DIVERSION OF  
FOREST LAND 0.6972 HAC. FOR THE EXTRACTION OF MINOR MINERAL SUCH AS SAND,  
STONE & BAJRI, WITHIN THE JURIDICION OF KARSOG FOREST DIVISION DISTRICT MANDI,  
HIMACHAL PRADESH COST ANALYSIS OF PLANTATION OVER AN AREA OF 1 HACTORS OF  
KARSOG FOREST DIVISION (Per ha. cost norms, 1100 Nos. plants**

I	Name of Project	Extraction of minor menereal such				
II	Name of User Agency	HPPWD DIVISION KARSOG				
III	Area for Compensatory Afforestation (in ha.)	1.3944				
IV	Location for Compensatory Afforestation	Other forest land in Muhal Firnoo over in Khasra No. 495/60.				
V	Type of fencing	Barbad Wire with RCC Fence Posts				
Sr No	Particulars of work	Total KM	Quantity	Unit	Rate in Rs.	Amount
<b>FENCING</b>						
1	Survey and demarcation of plantation area		1	Hac.	184.25	184.25
2	Preparation/ purchase of RCC Fence post (including GST @18%)		50	Nos.	358	17900
3	Carriage of RCC fence post up to 165cm long over distance 2 Km uphill/ downhill	2	50	Nos.	61.5	6150
4	Preparation of digging of holes 20x30x50 cm size		50	Nos.	16.61	830.5
5	Fixing of RCC fence posts including strutting		50	Nos.	13.14	657
6	Carriage of Barbed wire over distance 2 Km	2	0.75	Qtls.	135.5	203.3
7	Stretching and fixing Barbed Wire in 4 stands		600	Rmt.	8.8	5280
8	Interlacing of thorny bushes along the fence		150	Rmt.	7.33	1100
9	Cost of Barbed Wire (including GST)		0.75	Qtls.	6509	4882
<b>Total-A/Survey, Demarcation &amp; Fencing</b>						<b>37186</b>
<b>Or Say</b>						<b>37200</b>
<b>PLANTING</b>						
1	Bush cutting in strips (3mx3m)		1	Hac.	2186.25	2186.25
2	Digging of pits 45x45x45 cm		1100	Nos.	17.49	19239
3	Filling of pits 45x45x45 cm		1100	Nos.	4.98	5478
4	Carriage of plants in P/bags over distance 2 Km uphill/ downhill	2	1100	Nos.	3.5	7700
5	Planting of entire plant raised in P/Bags		1100	Nos.	3.99	4389
6	Construction of inspection path 60 cm width.		100	Rmt.	20.16	2016.00
7	Cost of sign board, carriage & fixing etc.		L/S		450	450

8	Nursery cost of plants		1100	Nos.	19.78	21758
<b>Total-B/Planting:-</b>						<b>63216</b>
<b>Or Say</b>						<b>63200</b>
<b>Grand Total(A+B)</b>						<b>100400</b>
<b>1st YEAR MAINTENANCE (30% BEATING UP)</b>						
1	Re-digging of pits 45x45x45 cm		330	Nos.	8.74	2884
2	Filling of pits 45x45x45 cm		330	Nos.	4.98	1643
3	Planting of P. bag plants		330	Nos.	3.99	1317
4	Carriage P. Bag plants distance 2 Km uphill/ downhill	2	330	Nos.	3.5	2310
5	Repair of fencing		60	Rmt.	3.2	192
6	Nursery cost of plants		330	Nos.	19.78	6527
<b>Total/1st Year Maintenance:</b>						<b>14874</b>
<b>Or Say</b>						<b>14900</b>
<b>2nd YEAR MAINTENANCE (20% BEATING UP)</b>						
1	Re-digging of pits 45x45x45 cm		220	Nos.	8.74	1923
2	Filling of pits 45x45x45 cm		220	Nos.	4.98	1096
3	Planting of P. bag plants		220	Nos.	3.99	878
4	Carriage P. Bag plants distance 2 Km uphill	2	220	Nos.	3.5	1540
5	Repair of fencing		60	Rmt.	3.2	192
6	Nursery cost of plants		220	Nos.	19.78	4352
<b>Total/2nd Year Maintenance:</b>						<b>9980</b>
<b>Or Say</b>						<b>10000</b>
<b>3rd YEAR to 10th YEAR MAINTENANCE (10% BEATING UP)</b>						
1	Re-digging of pits 45x45x45 cm		110	Nos.	8.74	961
2	Filling of pits 45x45x45 cm		110	Nos.	4.98	548
3	Planting of P. bag plants		110	Nos.	3.99	439
4	Carriage P. Bag plants distance 2 Km uphill	2	110	Nos.	3.5	770
5	Repair of fencing		60	Rmt.	3.2	192
6	Nursery cost of plants		110	Nos.	19.78	2176
<b>Total</b>						<b>5086</b>
<b>Or Say</b>						<b>5100</b>

Divisional Forest Officer,  
Karsog Forest Division, HP.