

CHECK LIST NO. 18

Full Title of Project: - Diversion of 41.815 ha. (Now 33.3292 ha.) forest land in favour of HPPWD for the Construction of Slapper to Tattapani road within the jurisdiction of Karsog & Suket Forest Divisions, Distt. Mandi HP.

File No :- FP/HP/ROAD/37858/2018

“SCHEME FOR COMPENSATORY AFFORESTATION”

Detailed scheme for 5 ha. Compensatory Afforestation and its maintenance for 10 years to be carried-out in lieu of diversion of forest land 41.815 ha. (now 33.3292 ha.) for the construction of Slapper to Tattapani road, in Tehsil Karsog & Sunder Nagar, Distt. Mandi, HP in jurisdiction of Karsog & Suket Forest Divisions in Distt. Mandi HP is given as under:-

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

Tehsil Karsog Disst. Mandi, HP

Name of Forest Division:- Karsog Forest Division Range: Seri

Block/ Compartment/ Survey No. H43F7

Area to be afforested: 5 hac.

2. Description of area:-

I) Whether the site selected for compensatory Afforestation is a land bank or not: **No (Degraded forest land).**

II) If CA site is other than the land bank, reasons be given: **Degraded forest land.**

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

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 5 ha. Over in D-252 Naga Nal	5.00	2024-25	139300	10%	153230	766150
2	1st year maintenance	5.00	2025-26	22200	20%	26640	133200
3	2nd year maintenance	5.00	2026-27	14900	30%	19370	96850
4	3rd year maintenance	5.00	2027-28	7600	40%	10640	53200
5	4th year maintenance	5.00	2028-29	7600	50%	11400	57000
6	5th year maintenance	5.00	2029-30	7600	60%	12160	60800
7	6th year maintenance	5.00	2030-31	7600	70%	12920	64600
8	7th year maintenance	5.00	2031-32	7600	80%	13680	68400
9	8th year maintenance	5.00	2032-33	7600	90%	14440	72200
10	9th year maintenance	5.00	2033-34	7600	100%	15200	76000
11	10th year maintenance	5.00	2034-35	7600	110%	15960	79800
Total initial planting and 10 year maintenance:-							1528200
12	Vegetative, Dry Stone, Brushwood Check Dam	5.00		40000	10%	44000	220000
Total initial planting, 10 year maintenance & SMS works:-							1748200
Added Departmental Charges @17.5%							305935
Contingency Charges @5%							87410
Grand Total							2141545

5. Technical Details: -

- i) **General Details:-** An area of 5 hac. will be taken up for planting under compensatory scheme in D-252 Naga Nal (Degraded 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 hec. (Mixture of plant shrubs and grasses).
- ii) **Spacement: -** 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.

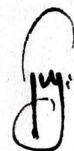
vi) **Protection (Fencing, Watch man, People's Participation etc.):** - Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.

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: 26.10.2023

Place: Karsog



(K.B. Negi) HPFS

**Divisional Forest Officer,
Karsog Forest Division, H.P.**

CHECK LIST NO. 18

Full Title of Project: - Diversion of 41.815 ha. (Now 33.3292 ha.) Forest Land in favour of HPPWD for the Construction of Slapper to Tattapani road within the jurisdiction of Karsog & Suket Forest Divisions, Distt. Mandi HP.

File No :- FP/HP/ROAD/37858/2018

“SCHEME FOR PENAL COMPENSATORY AFFORESTATION”

Detailed scheme for 10 ha. Compensatory Afforestation and its maintenance for 10 years to be carried-out in lieu of diversion of forest land 41.815 ha. (now 33.3292 ha.) for the construction of Slapper to Tattapani road, in Tehsil Karsog & Sunder Nagar, Distt. Mandi, HP in jurisdiction of Karsog & Suket Forest Divisions in Distt. Mandi HP is given as under:-

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

Tehsil Karsog Distt. Mandi HP

Name of Forest Division:- Karsog Forest Division Range: Seri

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

Area to be afforested: 10 ha

2. Description of area:-

- I) Whether the site selected for Penal compensatory Afforestation is a land bank or not:
No (Degraded Forest Land).
- II) If CA site is other than the land bank, reasons be given: **Degraded forest land.**
- III) In case of non-forest area identified for CA, then what is the distance of CA site from the adjoining forest boundary: **Nil**
- 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 10 ha. Over in D-235 Dhurmu	10.00	2024-25	139300	10%	153230	1532300
2	1st year maintenance	10.00	2025-26	22200	20%	26640	266400
3	2nd year maintenance	10.00	2026-27	14900	30%	19370	193700
4	3rd year maintenance	10.00	2027-28	7600	40%	10640	106400
5	4th year maintenance	10.00	2028-29	7600	50%	11400	114000
6	5th year maintenance	10.00	2029-30	7600	60%	12160	121600
7	6th year maintenance	10.00	2030-31	7600	70%	12920	129200
8	7th year maintenance	10.00	2031-32	7600	80%	13680	136800
9	8th year maintenance	10.00	2032-33	7600	90%	14440	144400
10	9th year maintenance	10.00	2033-34	7600	100%	15200	152000
11	10th year maintenance	10.00	2034-35	7600	110%	15960	159600
Total initial planting and 10 year maintenance:-							3056400
12	Vegetative, Dry Stone, Brushwood Check Dam	10.00		40000	10%	44000	440000
Total initial planting, 10 year maintenance & SMS works:-							3496400
Added Departmental Charges @17.5%							611870
Contingency Charges @5%							174820
Grand Total							4283090

5. Technical Details: -

- i) **General Details:-** An area of 10 hac. will be taken up for planting under compensatory scheme in D-235 Dhurmu (Degraded 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 hectare. (Mixture of plant shrubs and grasses).
- ii) **Spacement: -** 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: 26.10.2023

Place: Karsog

(K.B. Negi) HPFS
Divisional Forest Officer,
Karsog Forest Division, H.P.

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

Name of Forest Division:- Karsog Forest Division Range: Seri

Block/ Compartment/ Survey No. H43F7

Area to be afforested: 10 hac.

2. Description of area:-

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

II) If CA site is other than the land bank, reasons be given: **Degraded forest land.**

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

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 10 ha. Over in D-240 Behal	10.00	2024-25	139300	10%	153230	1532300
2	1st year maintenance	10.00	2025-26	22200	20%	26640	266400
3	2nd year maintenance	10.00	2026-27	14900	30%	19370	193700
4	3rd year maintenance	10.00	2027-28	7600	40%	10640	106400
5	4th year maintenance	10.00	2028-29	7600	50%	11400	114000
6	5th year maintenance	10.00	2029-30	7600	60%	12160	121600
7	6th year maintenance	10.00	2030-31	7600	70%	12920	129200
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Total initial planting and 10 year maintenance:-							3056400
12	Vegetative, Dry Stone, Brushwood Check Dam	10.00		40000	10%	44000	440000
Total initial planting, 10 year maintenance & SMS works:-							3496400
Added Departmental Charges @17.5%							611870
Contingency Charges @5%							174820
Grand Total							4283090

5. Technical Details: -

- ix) **General Details:-** An area of 10 hac. will be taken up for planting under compensatory scheme in D-240 Behal (Degraded 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 hec. (Mixture of plant shrubs and grasses).
- x) **Spacement: -** 3mtr x 3mtr.
- xi) **Species: -** Pine, Robinia, Shisham, Daroo etc.

xii) **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.

xiii) **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.

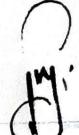
xiv) **Protection (Fencing, Watch man, People's Participation etc.):** - Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.

xv) **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.

xvi) Any other information: - Nil

Date: 26.10.2023

Place: Karsog


(K.B. Negi) HPFS
Divisional Forest Officer,
Karsog Forest Division, H.P.

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Full Title of Project: - Diversion of 41.815 ha. (Now 33.3292 ha.) Forest Land in favour of HPPWD for the Construction of Slapper to Tattapani road within the jurisdiction of Karsog & Suket Forest Divisions, Distt. Mandi HP.

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

Distt: Mandi Village Restadhar

Tehsil Karsog Disst. Mandi, HP

Name of Forest Division:- Karsog Forest Division Range: Pangna

Block/ Compartment/ Survey No. **H43F3**

Area to be afforested: 5 hac.

2. Description of area:-

I) Whether the site selected for compensatory Afforestation is a land bank or not: **No (Degraded forest land).**

II) If CA site is other than the land bank, reasons be given: **Degraded forest land.**

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

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.

5. 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 5 ha. Over in D-72 Restadhar	5.00	2024-25	139300	10%	153230	766150
2	1st year maintenance	5.00	2025-26	22200	20%	26640	133200
3	2nd year maintenance	5.00	2026-27	14900	30%	19370	96850
4	3rd year maintenance	5.00	2027-28	7600	40%	10640	53200
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9	8th year maintenance	5.00	2032-33	7600	90%	14440	72200
10	9th year maintenance	5.00	2033-34	7600	100%	15200	76000
11	10th year maintenance	5.00	2034-35	7600	110%	15960	79800
Total initial planting and 10 year maintenance:-							1528200
12	Vegetative, Dry Stone, Brushwood Check Dam	5.00		40000	10%	44000	220000
Total initial planting, 10 year maintenance & SMS works:-							1748200
Added Departmental Charges @17.5%							305935
Contingency Charges @5%							87410
Grand Total							2141545

5. Technical Details: -

- ii) **General Details:-** An area of 5 hac. will be taken up for planting under compensatory scheme in D-72 Restadhar (Degraded 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 hec. (Mixture of plant shrubs and grasses).
- ii) **Spacement: -** 3mtr x 3mtr.
- ix) **Species: -** Pine, Robinia, Shisham, Daroo etc.

x) **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.

xi) **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.

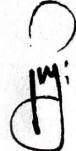
xii) **Protection (Fencing, Watch man, People's Participation etc.):** - Area will be protected from grazing by erecting barbed wire fencing at all vulnerable places around the plantation. Further watch and ward as also fire protection will be ensured through regular departmental staff.

xiii) **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.

xiv) Any other information: - Nil

Date: 26.10.2023

Place: Karsog



(K.B. Negi) HPFS

Divisional Forest Officer,
Karsog Forest Division, H.P.

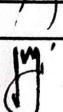
SITE SPECIFIC COMPENSATORY AFFORESTATION SCHEME FOR THE DIVERSION OF FOREST LAND 33.3292 HAC. FOREST LAND FOR FOR CONSTRUCTION OF SLAPPER TO TATTAPANI ROAD, WITHIN THE JURIDCTION OF KARSOG FOREST DIVISION DISTRICT MANDI, HIMACHAL PRADESH COST ANALYSIS OF PLANTATION OVER AN AREA OF 1 HACTORS OF KARSOG FOREST DIVISION
 (Per ha. cost norms, 1100 Nos. plants)

I	Name of Project			Construction of Slapper to Tattapani road		
II	Name of User Agency			HPPWD		
III	Area for Compensatory Afforestation (in ha.)			30		
IV	Location for Compensatory Afforestation			D-252 Naga Nal, D-240 Behal, D-235 Dhurmu & D-72 Restadhar.		
V	Type of fencing			Barbad Wire with RCC Fence Posts		
Sr No	Particulars of work	Total KM	Quantity	Unit	Rate in Rs.	Amount
FENCING						
1	Survey and demarcation of plantation area		1	Hac.	251.25	251.25
2	Preparation/ purchase of RCC Fence post (including GST @18%)		50	Nos.	400	20000
3	Carriage of RCC fence post up to 165cm long over distance 2 Km uphill/ downhill	2	50	Nos.	120	12000.00
4	Preparation of digging of holes 20x30x50 cm size		50	Nos.	23	1150.0
5	Fixing of RCC fence posts including strutting		50	Nos.	18	900.00
6	Carriage of Barbed wire over distance 2 Km	2	0.75	Qtls.	250	375.0
7	Stretching and fixing Barbed Wire in 4 stands		600	Rmt.	5	3000
8	Interlacing of thorny bushes along the fence		150	Rmt.	10	1500.00
9	Cost of Barbed Wire (including GST)		0.75	Qtls.	7500	5625
Total-A/Survey, Demarcation & Fencing					44801.25	
Or Say					44800	

PLANTING						
1	Bush cutting in strips (3mx3m)		1	Hac.	2981.25	2981.25
2	Digging of pits 45x45x45 cm		1100	Nos.	24	26400
3	Filling of pits 45x45xx45 cm		1100	Nos.	6.9	7590
4	Carriage of plants in P/bags over distance 2 Km uphill/ downhill	2	1100	Nos.	6	13200
5	Planting of entire plant raised in P/Bags		1100	Nos.	5.5	6050
6	Construction of inspection path 60 cm width.		100	Rmt.	27.5	2750.00
7	Cost of sign board, carriage of plants from nursery to road side of Plantation area through vehicle & loading and unloading of plants.		L/S		2500	2500
8	Nursery cost of plants		1100	Nos.	30	33000
Total-B/Planting:-					94471	
Or Say					94500	
Grand Total(A+B)					139300	

1st YEAR MAINTENANCE (30% BEATING UP)						
1	Re-digging of pits 45x45x45 cm		330	Nos.	12	3960.0
2	Filling of pits 45x45x45 cm		330	Nos.	6.9	2277.0
3	Planting of P. bag plants		330	Nos.	5.5	1815.0
4	Carriage P. Bag plants distance 2 Km uphill/ downhill	2	330	Nos.	6	3960
5	Repair of fencing		60	Rmt.	4.7	282
6	Nursery cost of plants		330	Nos.	30	9900

Total/1st Year Maintenance:				22194.0
Or Say				22200
2nd YEAR MAINTENANCE (20% BEATING UP)				
1	Re-digging of pits 45x45x45 cm	220	Nos.	12
2	Filling of pits 45x45x45 cm	220	Nos.	6.9
3	Planting of P. bag plants	220	Nos.	5.5
4	Carriage P. Bag plants distance 2 Km uphill	2	220 Nos.	6
5	Repair of fencing	60	Rmt.	4.7
6	Nursery cost of plants	220	Nos.	30
Total/2nd Year Maintenance:				14890
Or Say				14900
3rd YEAR to 10th YEAR MAINTENANCE (10% BEATING UP)				
1	Re-digging of pits 45x45x45 cm	110	Nos.	12
2	Filling of pits 45x45x45 cm	110	Nos.	6.9
3	Planting of P. bag plants	110	Nos.	5.5
4	Carriage P. Bag plants distance 2 Km uphill	2	110 Nos.	6
5	Repair of fencing	60	Rmt.	4.7
6	Nursery cost of plants	110	Nos.	30
Total				7586
Or Say				7600


 Divisional Forest Officer,
 Karsog Forest Division, HP.