

**Full Title of the Project:-**

*Diversion of 1.433 ha of forest land in favour of Executive Engineer HPPWD Banjar Kullu (H.P.) for the construction of Panchveer to Dhocha via Bion road within the jurisdiction of Seraj Forest Division, Distt. Kullu, Himachal Pradesh.*

**File No:** FP/HP/road/150698/2021

**Date of Proposal**

**CHECK LIST SERIAL NUMBER-18**

**"SCHEME FOR COMPENSATORY AFFORESTATION"**

Detailed scheme of CA be carried out in lieu of 1.433 ha of Forest area to be diverted for the C/O Panchveer to Dhocha via Bion road, In Kullu Distt. H.P.

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

District Kullu village Bion (Ragunaal) Tehsil: Banjar

Name of Forest Division:- Seraj, Range:- Banjar

Block/Compartment/Survey No. :- Banjar/Ragunaal/53E/06 to be Afforested 1.80 ha.

**(Land Bank)**

**2. Description of Area:-**

- i. Whether the site selected for Compensatory Afforestation is a land Bank or Not:- **Land Bank.**
- ii. If the CA site is other than the land bank, reasons be given:- **NA**
- iii. In case of non-forest area identified of CA, then what is the distance of CA site from the adjoining Forest boundary:- **N.A.**
- iv. **Soil type:- Clayey Loam.**
  - i. Topography:-
  - ii. Hilly/undulating/Plain= **Hilly-Undulating**
  - iii. Slope: Steep/Medium/Gentle = **Steep to medium**
  - iv. Whether the area is bearing any root stock of vegetation: **Only few bush growths**

**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 requirements of funds is as under:-

New Plantation	Ha	1.8	94890	170802
1st Year Maintenance	Ha	1.8	19200	34560
2nd Year Maintenance	Ha	1.8	13370	24066
3rd Year Maintenance	Ha	1.8	7550	13590
4th Year Maintenance	Ha	1.8	7550	13590
5th Year Maintenance	Ha	1.8	7550	13590
6th Year Maintenance	Ha	1.8	7550	13590
7th Year Maintenance	Ha	1.8	7550	13590
8th Year Maintenance	Ha	1.8	7550	13590
9th Year Maintenance	Ha	1.8	7550	13590
10th Year Maintenance	Ha	1.8	7550	13590
<b>TOTAL (1) COST of Compensatory afforestation Area 5 ha =</b>			<b>187860</b>	<b>338148</b>
<b>Add Contingencies @ 5% of total Cost.</b>				<b>16907</b>
<b>Total Cost (1+2) =</b>				<b>355055</b>
<b>Add Departmental Charges @ 17.5% on total cost (1+2).</b>				<b>62135</b>
<b>Grand Total</b>				<b>417190</b>
<b>Or Say</b>				<b>417200</b>

#### 1. Technical Detail:-

Technical details of Compensatory afforestation Scheme are as follows:-

<b>a</b>	<b>General Details</b>	Area for Compensatory Afforestation in Shikari Beat, Banjar Block, Banjar Range in, Ragunaal to be Afforested 1.80 Ha.
<b>b</b>	Spacing	3mx3m
<b>c</b>	Species	Site specific species OBL, Ban Oak, Deodar, Fir/Spruce etc.
<b>d</b>	Plantation method	By pits 60*60*60 cm
<b>e</b>	Protection (Fencing watch man, People's participation etc.)	Through people participation, Forest Guard etc, and fencing 5 Stand B/Wire interlacing with thorny bushes.
<b>f</b>	Proposed Monitoring Mechanism: Manually:	Proper inspection of the area by field Staff & Officers of the Department as per mandatory Field inspection protocol
<b>g</b>	Any other information:	NA

Place : Banjar

Dated:- 24.06.22

Divisional Forest Officer,  
Banjar Forest Division, Banjar  
at Banjar



**The Compensatory Afforestation Scheme for Planting of plants for the Diversion of 1.433 ha of forest land in favour of Executive Engineer, HPPWD Banjar for the construction of Panchveer to Dohocha via Bion road within the jurisdiction of Seraj Forest Division, District Kullu, H.P. (CA site Ragunaal= 1.80 ha)**

	Sr. No.	Particulars of work	Unit	Quantity	Rate per unit at	Norm at the wage	Amount
<b>A</b>		<b>FENCING COST</b>					
	1	Survey and demarcation of plantation area	ha	1	101	202.00	202.00
	2	Preparation/Purchase of RCC fence posts @ rate of Rs. 358 per cost	No	60	250	358.00	21480.00
	3	Carriage of RCC Fence post upto 165cm long over a distance of 2 km uphill/download	Km/ No	60	33.5	67.00	8040.00
	4	Preparation/Digging of holes 20-30cm dia 50 cm size	No	60	9.06	18.12	1087.20
	5	Fixing of RCC fence Post i/c strutting	No.	60	7.16	14.32	859.20
	6	Carriage of B/Wire over a distance of 2 Km uphill/download	KM/ Qtl	0.85	73.65	147.30	250.41
	7	Stretching & Fixing of Barbed Wire in 4 strands	Rmt	720	4.8	9.60	6912.00
	8	Interlacing of Thorny Bushes along the Fence	Rmt	180	4.09	8.18	1472.40
	9	Cost of Barbed Wire	Qtl	0.9	6510	6510.00	5859.00
		<b>Total -Fencing (A) =</b>					<b>46162.21</b>
		<b>Or Say</b>					<b>46170</b>
<b>B</b>		<b>PLANTING COST</b>					
	1	Bush Cutting in Strips (3mx3m)	Ha	1	1192.8	2385.60	2385.60
	2	Digging of pits 45*45*45* cm size	No	1100	9.54	19.08	20988.00
	3	Filling of pits 45*45*45* cm.	No	1100	2.72	5.44	5984.00
	4	Carriage of Plants in P Bags over distance 2 Km uphill/downhill	KM/ No	1100	1.9	3.80	8360.00
	5	Planting of Plants Raised in P/Bags	No	1100	2.18	4.36	4796.00
	6	Construction of Inspection Path 60 cm wide	Rmt	100	11	22.00	2200.00
	7	Cost of Sign Board Carriage & Fixing	No	1	LS	4000.00	4000.00
		<b>Total (B)</b>					<b>48713.60</b>
		<b>Or Say</b>					<b>48720.00</b>
		<b>Grand Total (Fencing+Planting) A+B=</b>					<b>94890.00</b>
<b>C</b>		<b>MAINTENANCE COST</b>					
<b>a</b>		<b>1ST YEAR MAINTENANCE - 30% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	330	4.77	9.54	3148.20
	2	Filling of pits 45*45*45* cm.	Nos	330	2.72	5.44	1795.20
	3	Carriage of poly plants from nursery to nearest road head near plantation site in motor	Nos	330	LS	LS	1500.00
	4	Carriage of Plants in P Bags over distance 2 km uphill/downhill	Nos	330	1.9	3.80	2508.00
	5	Planting of Plants raised in P/Bags	Nos	330	2.18	4.36	1438.80
	6	Cost of Normal Plants raised in P-bag	Nos	330	26	26.00	8580.00
	7	Repair of Fencing	Rmt	60	1.8	3.60	216.00
		<b>Total 1st Year Maintenance</b>					<b>19186.20</b>
		<b>Or Say</b>					<b>19200</b>
<b>b</b>		<b>2<sup>nd</sup> YEAR MAINTENANCE -20% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	220	4.77	9.54	2098.80
	2	Filling of pits 45*45*45* cm.	Nos	220	2.72	5.44	1196.80
	3	Carriage of poly plants from nursery to nearest	Nos	220	LS	LS	1500.00
	4	Carriage of Plants in P Bags over distance 2 km uphill/downhill	Nos	220	1.9	3.80	1672.00
	5	Planting of Plants raised in P/Bags	Nos	220	2.18	4.36	959.20
	6	Cost of Normal Plants raised in P-bag	Nos	220	26	26.00	5720.00
	7	Repair of Fencing	Rmt	60	1.8	3.60	216.00
		<b>Total 2nd Year Maintenance</b>					<b>13362.80</b>
		<b>Or Say</b>					<b>13370</b>
<b>c</b>		<b>3<sup>rd</sup> YEAR MAINTENANCE -10% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	110	4.77	9.54	1049.40
	2	Filling of pits 45*45*45* cm.	Nos	110	2.72	5.44	598.40

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3	Carriage of poly plants from nursery to nearest	Nos	110	LS	LS	154.10
4	Carriage of Plants in P Bags over distance 2 km uphill/downhill	Nos	110	1.9	3.80	836.00
5	Planting of Plants raised in P/Bags	Nos	110	2.18	4.36	479.60
6	Cost of Normal Plants raised in P-bag	Nos	110	26	26.00	2860.00
7	Repair of Fencing	Rmt	60	1.8	3.60	216.00
	<b>Total 3st Year Maintenance</b>					<b>7539.40</b>
	<b>Or Say</b>					<b>7550</b>
d	4th YEAR MAINTENANCE	L/s				7550.00
e	5th YEAR MAINTENANCE	L/s				7550.00
f	6th YEAR MAINTENANCE	L/s				7550.00
i	7th YEAR MAINTENANCE	L/s				7550.00
j	8th YEAR MAINTENANCE	L/s				7550.00
k	9th YEAR MAINTENANCE	L/s				7550.00
l	10th YEAR MAINTENANCE	L/s				7550.00
	<b>Grand Total--Maintenance (C) =</b>					<b>7550.00</b>
D	<b>Grand Total -New+Maintenance (A+B+C) =</b>					<b>92970.00</b>
						<b>187860.00</b>
	<b>ABSTRACT</b>	<b>Unit</b>	<b>Area (Ha)</b>	<b>Rate /ha</b>	<b>Total Amount</b>	
1	New Plantation	Ha	1.8	94890	170802	
	1st Year Maintenance	Ha	1.8	19200	34560	
	2nd Year Maintenance	Ha	1.8	13370	24066	
	3rd Year Maintenance	Ha	1.8	7550	13590	
	4th Year Maintenance	Ha	1.8	7550	13590	
	5th Year Maintenance	Ha	1.8	7550	13590	
	6th Year Maintenance	Ha	1.8	7550	13590	
	7th Year Maintenance	Ha	1.8	7550	13590	
	8th Year Maintenance	Ha	1.8	7550	13590	
	9th Year Maintenance	Ha	1.8	7550	13590	
	10th Year Maintenance	Ha	1.8	7550	13590	
	<b>TOTAL (1) COST of Compensatory afforestation</b>			<b>187860</b>	<b>338148</b>	
2	Add Contingencies @ 5% of total Cost.					16907
	<b>Total Cost (1+2) =</b>					<b>355055</b>
3	Add Departmental Charges @ 17.5% on total					62135
	<b>Grand Total</b>					<b>417190</b>
	<b>Or Say</b>					<b>417200</b>

Divisional Forest Officer  
 Senior Forest Division at Banjar  
 at Banjar



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**"SCHEME FOR COMPENSATORY AFFORESTATION"**

Detailed scheme of CA be carried out in lieu of 1.433 ha of Forest area to be diverted for the C/O Panchveer to Dhocha via Bion road, In Kullu Distt. H.P.

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

District Kullu village Bion (Ragunaal) Tehsil: Banjar

Name of Forest Division:- Seraj, Range:- Banjar

Block/Compartment/Survey No. :- Banjar/Ragunaal/53E/06 to be Afforested 1.066 ha.

**(Land Bank)**

**2. Description of Area:-**

- i. Whether the site selected for Compensatory Afforestation is a land Bank or Not:- **Land Bank.**
- ii. If the CA site is other than the land bank, reasons be given:- **NA**
- iii. In case of non-forest area identified of CA, then what is the distance of CA site from the adjoining Forest boundary:- **N.A.**
- iv. **Soil type:- Clayey Loam.**
- v. Topography:-
- vi. Hilly/undulating/Plain= **Hilly-Undulating**
- vii. Slope: Steep/Medium/Gentle = **Steep to medium**
- viii. Whether the area is bearing any root stock of vegetation: **Only few bush growths**

**3. Plantation Model:-**

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

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

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

	ABSTRACT	Unit	Area (Ha)	Rate /ha	Total Amount
1	New Plantation	Ha	1.066	94890	101153
	1st Year Maintenance	Ha	1.066	19200	20467
	2nd Year Maintenance	Ha	1.066	13370	14252
	3rd Year Maintenance	Ha	1.066	7550	8048
	4th Year Maintenance	Ha	1.066	7550	8048
	5th Year Maintenance	Ha	1.066	7550	8048
	6th Year Maintenance	Ha	1.066	7550	8048
	7th Year Maintenance	Ha	1.066	7550	8048
	8th Year Maintenance	Ha	1.066	7550	8048
	9th Year Maintenance	Ha	1.066	7550	8048
	10th Year Maintenance	Ha	1.066	7550	8048
	<b>TOTAL (1) COST of Compensatory afforestation Area 1.066 ha =</b>			<b>187860</b>	<b>200259</b>
2	Add Contingencies @ 5% of total Cost.				10013
	<b>Total Cost (1+2) =</b>				<b>210272</b>
3	Add Departmental Charges @ 17.5% on total cost (1+2).				36798
	<b>Grand Total</b>				<b>247069</b>
	<b>Or Say</b>				<b>247100</b>

#### 5. Technical Detail:-

Technical details of Compensatory afforestation Scheme are as follows:-

<b>a</b>	<b>General Details</b>	Area for Compensatory Afforestation in Shikari Beat, Banjar Block, Banjar Range in, Ragunaal to be Afforested 1.80 Ha.
<b>b</b>	Spacing	3mx3m
<b>c</b>	Species	Site specific species OBL, Ban Oak, Deodar, Fir/Spruce etc.
<b>d</b>	Plantation method	By pits 60*60*60 cm
<b>e</b>	Protection (Fencing watch man, People's participation etc.)	Through people participation, Forest Guard etc, and fencing 5 Stand B/Wire interlacing with thorny bushes.
<b>f</b>	Proposed Monitoring Mechanism: Manually:	Proper inspection of the area by field Staff & Officers of the Department as per mandatory Field inspection protocol
<b>g</b>	Any other information:	NA

Place : Banjar

Dated:- 24.06.22

Divisional Forest Officer,  
Serai Forest Division, Banjar  
at Banjar



**The Compensatory Afforestation Scheme for Planting of plants for the Diversion of 1.433 ha of forest land in favour of Executive Engineer, HPPWD Banjar for the construction of Panchveer to Dohocha via Bion road within the jurisdiction of Seraj Forest Division, District Kullu, H.P. (CA site Ragunaal= 1.066 ha)**

	Sr. No.	Particulars of work	Unit	Quantity	Rate per unit at	Norm at the wage	Amount
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	1	Survey and demarcation of plantation area	ha	1	101	202.00	202.00
	2	Preparation/Purchase of RCC fence posts @ rate of Rs. 358 per cost	No	60	250	358.00	21480.00
	3	Carriage of RCC Fence post upto 165cm long over a distance of 2 km uphill/download	Km/ No	60	33.5	67.00	8040.00
	4	Preparation/Digging of holes 20-30cm dia 50 cm size	No	60	9.06	18.12	1087.20
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	6	Carriage of B/Wire over a distance of 2 Km uphill/download	KM/ Qtl	0.85	73.65	147.30	250.41
	7	Stretching & Fixing of Barbed Wire in 4 strands	Rmt	720	4.8	9.60	6912.00
	8	Interlacing of Thorny Bushes along the Fence	Rmt	180	4.09	8.18	1472.40
	9	Cost of Barbed Wire	Qtl	0.9	6510	6510.00	5859.00
		<b>Total -Fencing (A) =</b>					<b>46162.21</b>
		<b>Or Say</b>					<b>46170</b>
<b>B</b>		<b>PLANTING COST</b>					
	1	Bush Cutting in Strips (3mx3m)	Ha	1	1192.8	2385.60	2385.60
	2	Digging of pits 45*45*45* cm size	No	1100	9.54	19.08	20988.00
	3	Filling of pits 45*45*45* cm.	No	1100	2.72	5.44	5984.00
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	5	Planting of Plants Raised in P/Bags	No	1100	2.18	4.36	4796.00
	6	Construction of Inspection Path 60 cm wide	Rmt	100	11	22.00	2200.00
	7	Cost of Sign Board Carriage & Fixing	No	1	LS	4000.00	4000.00
		<b>Total (B)</b>					<b>48713.60</b>
		<b>Or Say</b>					<b>48720.00</b>
		<b>Grand Total (Fencing+Planting) A+B=</b>					<b>94890.00</b>
<b>C</b>		<b>MAINTENANCE COST</b>					
<b>a</b>		<b>1ST YEAR MAINTENANCE - 30% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	330	4.77	9.54	3148.20
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	6	Cost of Normal Plants raised in P-bag	Nos	330	26	26.00	8580.00
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		<b>Total 1st Year Maintenance</b>					<b>19186.20</b>
		<b>Or Say</b>					<b>19200</b>
<b>b</b>		<b>2<sup>nd</sup> YEAR MAINTENANCE -20% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	220	4.77	9.54	2098.80
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	6	Cost of Normal Plants raised in P-bag	Nos	220	26	26.00	5720.00
	7	Repair of Fencing	Rmt	60	1.8	3.60	216.00
		<b>Total 2nd Year Maintenance</b>					<b>13362.80</b>
		<b>Or Say</b>					<b>13370</b>
<b>c</b>		<b>3<sup>rd</sup> YEAR MAINTENANCE -10% MORTALITY</b>					
	1	Re-digging of pits 45*45*45* cm	Nos	110	4.77	9.54	1049.40
	2	Filling of pits 45*45*45* cm.	Nos	110	2.72	5.44	598.40

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	3	Carriage of poly plants from nursery to nearest	Nos	110	LS	LS	1500.00
	4	Carriage of Plants in P Bags over distance 2 km uphill/downhill	Nos	110	1.9	3.80	836.00
	5	Planting of Plants raised in P/Bags	Nos	110	2.18	4.36	479.60
	6	Cost of Normal Plants raised in P-bag	Nos	110	26	26.00	2860.00
	7	Repair of Fencing	Rmt	60	1.8	3.60	216.00
		<b>Total 3st Year Maintenance</b>					<b>7539.40</b>
		<b>Or Say</b>					<b>7550</b>
d		4th YEAR MAINTENANCE	L/s				7550.00
e		5th YEAR MAINTENANCE	L/s				7550.00
f		6th YEAR MAINTENANCE	L/s				7550.00
i		7th YEAR MAINTENANCE	L/s				7550.00
j		8th YEAR MAINTENANCE	L/s				7550.00
k		9th YEAR MAINTENANCE	L/s				7550.00
l		10th YEAR MAINTENANCE	L/s				7550.00
		<b>Grand Total--Maintenance (C) =</b>					<b>92970.00</b>
D		<b>Grand Total -New+Maintenance (A+B+C) =</b>					<b>187860.00</b>
		<b>ABSTRACT</b>	<b>Unit</b>	<b>Area (Ha)</b>	<b>Rate /ha</b>	<b>Total Amount</b>	
	1	New Plantation	Ha	1.066	94890	101153	
		1st Year Maintenance	Ha	1.066	19200	20467	
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		5th Year Maintenance	Ha	1.066	7550	8048	
		6th Year Maintenance	Ha	1.066	7550	8048	
		7th Year Maintenance	Ha	1.066	7550	8048	
		8th Year Maintenance	Ha	1.066	7550	8048	
		9th Year Maintenance	Ha	1.066	7550	8048	
		10th Year Maintenance	Ha	1.066	7550	8048	
		<b>TOTAL (1) COST of Compensatory afforestation</b>			<b>187860</b>	<b>200259</b>	
	2	Add Contingencies @ 5% of total Cost.					
		<b>Total Cost (1+2) =</b>				<b>10013</b>	
	3	Add Departmental Charges @ 17.5% on total				<b>210272</b>	
		<b>Grand Total</b>				<b>36798</b>	
		<b>Or Say</b>				<b>247069</b>	
						<b>247100</b>	

Divisional Forest Office  
Seraj Forest Division at Banjar  
at Banjar