

No./D-III-151/ e-file-166519
Himachal Pradesh Forest Department
Parvati Forest Division at Shamshi.

From:

Deputy Conservator of Forests,
Parvati Forest Division, Shamshi.

To:

M/s Dinesh Butail
Bandla Tea Estate Palampur
Distt. Kangra HP.

Subject:-

Deposit of compensatory levies after the grant of stage-I ('in- principle') approval in respect of proposal for the diversion of 1.6201ha of forestland in favour of M/s Dinesh Butail Complex Bandla Tea Estate Palampur for the construction of Grahan Kasol Hydro Power SHEP 5.00MW, within the Jurisdiction of Parvati Forest Division, Distt. Kullu HP. (Online proposal No. FP/HP/HYD/36586/2018)

Respected Sir,,

The 'In-principle' approval for diversion of 1.6201 ha of forest land in favour of M/s Beena Butail, Bhutail Complex Bandla Tea Estate Palampur Distt. Kangra HP has been accorded by MoEF & CC, GoI, vide e-office I/94613/2025 dated 22-01-2025. Brief detail of the proposal is as under: -

Sr. No.	Details of proposal	
1.	Distt./ Forest Division to which the proposal relates	Kullu/ Parvati
2.	Name of User Agency	M/s Dinesh Butail, Butail Complex Bandla Tea Estate Palampur Distt. Kangra HP
3.	Name of Proposal	Grahan Kasol SHEP 5.00MW
4.	Extent of forest area proposed to be diverted	1.6201ha
5.	Whether new or for additional land or for renewal/ extension	New
6.	Date of 1 st stage clearance	22/01/2025

2. The amount of compensatory levies in respect of the proposal mentioned above may be deposited in the following manner: -

I	<u>Amount required to be deposited in Adhoc- CAMPA Account being maintained by Govt. of India</u>	
(a)	Cost of Compensatory afforestation (excluding 17.5% departmental charges)	Rs. 10,26,802/-
(b)	Cost of additional CA (excluding 17.5% departmental charges)	N A
(c)	Cost of Penal Compensatory Afforestation (excluding 17.5% departmental charges)	N A
(d)	Cost of Catchment Area Treatment Plan	NA
(e)	Cost of Wildlife Management Plan	NA
(f)	Net Present Value (NPV)	Rs. 17,32,541/-
(g)	Cost for implementing the scheme for safety Zone Area in respect of mining cases	N A
(h)	Cost of implementing phased Reclamation Plan of mining area	NA
(i)	Other charges, if any (*specify) (excluding 17.5% departmental charges) Reclamation Plan	Rs. 8,53,347/-
(j)	Wild life Management Plan	65,65,000/-
	Total (I): -	Rs. 1,01,77,690/-
II	<u>Amount required to be deposited in the State Govt. Treasury</u>	
* (a)	Cost of trees	Rs. 50,03,782/-
* (b)	Departmental Charges on C A @ 17.5% of cost of CA	Rs. 1,71,134/-
* (c)	Departmental Charges on Addl. CA @ 17.5% of cost of Addl. CA.	NA
* (d)	Departmental Charges on Penal CA @ 17.5% of cost of Penal CA	N A
* (e)	Other charges, if any (*specify) Reclamation Plan (17.5% departmental charges)	Rs. 1,42,224/-
* III	VAT on cost of trees	N A
* IV	Income Tax & surcharge on value of trees	Rs. 128848
	Total (II): -	Rs. 53,03,988/-
	Or Say -	Rs. 53,03,990/-

3. The compensatory levies mentioned above may be deposited strictly in accordance with the following guidelines: -

(A) FOR AMOUNT (s) MENTIONED at 2(I) TO BE DEPOSITED IN ADHOC-CAMPA ACCOUNT

i) To be deposited by your Department directly through e- payment portal such as online challan mode through the RTGS and NEFT/ off line challan mode in Ad-hoc CAMPA account from your Bank Account in the Account of Adhoc -CMAPA as per e-challan generated through online Portal/ system.

ii) The amount to be deposited in Adhoc CAMPA account has to be deposited through e- payment portal such as online challan mode through the RTGS and NEFT/ off line challan mode only and should be deposited separately against each forest land diversion proposal. CA/ NPV amounts and other levies of two or more cases should not be clubbed and deposited together.

iii). After depositing the amount of CA, NPV etc. in Adhoc- CAMPA account through e-payment portal, the UTR No. & date of each such transaction shall be provided to the Forest Department for reference and not the 'Token No' or Demand Draft No through which it has been deposited

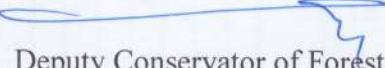
iv). While filling the RTGS form of the Bank, the name of user agency shall be correctly filled in the relevant column and the name so filled shall be same as appearing in the proposal folder.

(B) FOR AMOUNTS MENTIONED AT 2(II) TO BE DEPOSITED IN STATE GOVT. TREASURY:-

i). Amounts due towards Departmental charges on CA & Reclamation plan, @ 17.5% shall be deposited in this office through cheque/ DD in favour of Divisional Forest Officer, Parvati Forest Division, Shamshi payable at (Name of place).

You are, therefore, requested to release the funds at the earliest and submit the compliance along with supporting documents and undertaking **as per stipulations imposed (39 Points) in "In-Principle" approval** to this office at the earliest, so that case for final approval be sent to higher authorities. Copies of bills are also attached herewith for ready reference. Further ensure that no construction etc. on forestland be started on forestland till final approval.

Encls: As above.


Deputy Conservator of Forests,
Parvati Forest Division, Shamshi.

dt. 5-2-2025.

5/564168/2025

**Bill of trees coming in the Final Alignment of Grahan Kasol SHEP (5.00 MW)
M/S Dinesh Butail, Palampur, Distt. Kangra, HP (Area proposed for diversion = 1.620 ha.)**

Enumeration list of trees of Grahan Beat, Kasol Block, Kasol Forest Range, Parvati Forest Division
TOTAL ABSTRACT

S.No	Species	No. & Vol. (m ³)	Class wise										Total Volume (m ³)	Rate/ m ³	Amount In Rs.			
			V	IV	III	II A	II B	IA	IB	IC	ID	No.						
1	Deodar	No.	1	1	0	0	1	0	0	0	0	2	1	1	7			
		Vol.	0.10	0.40	0.00	0.00	3.00	0	0	0	0	10	6	8.8	0	28.80	84683	2438870
2	Kail	No.	0	1	0	0	1	0	0	0	1	1	1	2	6			
		Vol.	0.00	0.40	0.00	0	3.00	0	0	0	0	5.10	6	18	0	32.40	73081	2367824
3	Rai	No.	0	0	2	1	0	0	0	0	0	0	0	0	3			
		Vol.	0	0.00	1.70	1.7	0	0.0	0	0	0	0	0	0	0	3.40	53082	180479
4	Popular	No.	1	1	0	0	1	0	0	0	0	0	0	0	3			
		Vol.	0.30	0.70	0.00	0	4.9	0	0	0	0	0	0	0	0	5.90	2815	16609
5	Khirkak	No.	7	6	9	6	3	2	1	1	1	1	1	0	35			
		Vol.	2	4.20	12	13	10	9	6	8	0	0	0	0	0	64.60	20102	1298589
6	Daral	No.	3	0	8	2	1	3	1	0	1	1	0	1	19			
		Vol.	1.50	0.00	14.40	6	4.4	13.0	8	0	0	0	0	0	0	60.20	20102	1210140
7	Baras	No.	2	0	3	0	0	0	0	0	0	0	0	0	5			
		Vol.	0.60	0.00	4	0	0	0	0	0	0	0	0	0	0	4.80	20102	96490
8	Mahun	No.	5	3	3	3	0	0	0	0	1	0	0	15				
		Vol.	2	2	5	7	0	0	5.70	0	0	0	0	0	0	20.70	20102	416111
9	Ban	No.	0	0	1	0	0	0	0	0	0	0	0	1				
		Vol.	0.00	0.00	2	0	0	0	0	0	0	0	0	0	0	1.80	20102	36184
10	Khachan	No.	1	0	0	0	0	0	0	0	0	0	0	1				
		Vol.	0.20	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0.20	20102	4020
11	Rubinia	No.	1	0	1	0	0	0	0	0	0	0	0	2				
		Vol.	0	0	1.00	0	0	0	0	0	0	0	0	0	0	1.30	20102	26133
Total											97	224.10		5003782				
											I. Tax@ 2.5%		125095					
											Surcharge on I. Tax 3%		3753					
											Grand Total:-		5132629					

Rupees Fifty One Lac Thirty Two Thousand Six Hundred Twenty Nine Only

Deputy Conservator of Forests,
Parvati Forest Division, Shamshi

BILL FOR COMPENSATORY AFFORESTATION SCHEME (CA)

Subject:- Diversion of diversion of 1.620ha of forestland in favour of M/s Dinesh Butail Complex Bandla Tea Estate Palampur for the construction of Grahan-Kasol Hydro Power SHEP 5.00MW, within the Jurisdiction of Parvati Forest Division, Distt. Kullu HP.
(Online proposal No. FP/HP/HYD/36856/2018)

**PER HECTARE COST NORM FOR MODEL PLANTATION UNDER COMPENSATORY AFFORESTATION SCHEME
(1100 plant per Ha with RCC fence posts)**

Area Taken For CA = 2 x 1.620 ha = 3.24 Ha

Or Say = 3.25 Ha

Species to be Planted =

OBL & Conifer species as per site suitability

Area proposed for CA Site =

Survey sheet No. 53/E/5 Komigahar, 1/9 Khobas, Grahan beat, Kasol Range

Sr. No.	Particular of work	Unit	Qty	Mandays involved	Amount in Rs. at the wages of 400/-.
A Fencing:-					
1	Survey & demarcation of plantation area	ha	1	0.67	268
2	Preparation/purchase of RCC fence posts @ Rs 490/post	Nos	50	LS	24500
3	Carriage of RCC fence post up to 2 mtr. Long Over distance 2 KM	Nos	50	22.33	8932
4	Preparation/digging of holes 20 x 30 x 50 CM size	Nos	50	3.02	1208
5	Fixing of RCC fence posts i/c strutting	Nos	50	2.39	956
6	Carriage of barbed wire over distance 2 Km uphill/downhill	Qtl	0.75	0.74	296
7	Stretching & fixing of barbed wire in 4 stands	RMT	600	19.2	7680
8	Interlacing of thorny bushes along the fence	RMT	150	4.09	1636
9	Cost of Barbed wire	Qtl	0.85	6510	5534
					51010
	Add. 10% increase on escalation of wage/material rate =				5101
	Total (A)-Fencing =				56111
B Planting:-					
1	Bush Cutting in strips (3m x 3m)	Ha	1	7.95	3180
2	Digging of pits 45x45x45 cm size	Nos	1100	63.60	25440
3	Filling of pits 45x45x45 cm	Nos	1100	18.13	7252
4	Carriage of plants in p bags over distance 2KM uphill/downhill	Nos	1100	25.33	10132
5	Planting of plants raised in P/bags	Nos	1100	14.53	5812
6	Construction of inspection Paths	RMT	100	7.33	2932
7	Cost of sign Board, carriage & Fixing	1	L/S	3500.00	3500
8	Nursery cost of Plants @ Rs 30 per plant	Nos	1100	LS	33000
					91248
	Add. 10% increase on escalation of wage/material rate =				9125
	Total (B)-Planting =				100373
C Maintenance Cost					
1st Year Maintenance (30% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	330	9.53	3812
2	Filling of pits 45x45x45 cm	Nos	330	5.43	2172
3	Planting of Plants raised in P/ Bags	Nos	330	7.60	3040
4	Carriage of Plants in P bags over distance 2km uphill/downhill	Nos	330	4.36	1744


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5	Repair of fencing	Rmt	60	0.72	288
6	Nursery cost of Plants	Nos	330	30.00	9900
					20956
Add. 20% increase on escalation of wage/material rate =					4191
Total (1st Yr Maint.) =					25147
2nd Year Maintenance (20% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	220	6.36	2544
2	Filling of pits 45x45x45 cm	Nos	220	3.62	1448
3	Planting of Plants raised in P/ Bags	Nos	220	5.06	2024
4	Carriage of Plants in P bags over distance 2 km uphill/downhill	Nos	220	2.90	1160
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery cost of Plants	Nos	220	30	6600
					14064
Add. 30% increase on escalation of wage/material rate =					4219
Total (2nd Yr Maint.) =					18283
3rd Year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 km uphill/downhill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery cost of Plants	Nos	110	30	3300
					7213
Add. 40% increase on escalation of wage/material rate =					2885
Total (3rd Yr Maint.) =					10098
4th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 km uphill/downhill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery cost of Plants	Nos	110	30	3300
					7213
Add. 50% increase on escalation of wage/material rate =					3606
Total (4th Yr Maint.) =					10819
5th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 KM uphill/down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery cost of Plants	Nos	110	30	3300
					7213
Add. 60% increase on escalation of wage/material rate =					4328
Total (5th Yr Maint.) =					11541
6th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052

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4	Carriage of Plants in P bags over distance 2 KM uphill/ down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery Cost of Plants	Nos	110	30	3300
					7213
Add. 70% increase on escalation of wage/material rate =					5049
Total (6th Yr Maint.) =					12262
7th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 KM uphill/ down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery Cost of Plants	Nos	110	30	3300
					7213
Add. 80% increase on escalation of wage/material rate =					5770
Total (7th Yr Maint.) =					12983
8th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 KM uphill/ down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery Cost of Plants	Nos	110	30	3300
					7213
Add. 90% increase on escalation of wage/material rate =					6492
Total (8th Yr Maint.) =					13704
9th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 KM uphill/ down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery Cost of Plants	Nos	110	30	3300
					7213
Add. 100% increase on escalation of wage/material rate =					7213
Total (9th Yr Maint.) =					14426
10th year Maintenance (10% beating up)					
1	Re digging of pits 45x45x45 cm	Nos	110	3.18	1273
2	Filling of pits 45x45x45 cm	Nos	110	1.80	720
3	Planting of Plants raised in P/ Bags	Nos	110	2.63	1052
4	Carriage of Plants in P bags over distance 2 KM uphill/ down hill	Nos	110	1.45	580
5	Repair of fencing	Rmt	60	0.72	288
6	Nursery Cost of Plants	Nos	110	30	3300
					7213
Add. 110% increase on escalation of wage/material rate =					7934
Total (10th Yr Maint.) =					15147

ABSTRACT					
1	New Plantation(Fencing+Planting)				156484
2	1st Year Maintenance				25147
3	2nd Year Maintenance				18283
4	3rd Year Maintenance				10098
5	4th Year Maintenance				10819
6	5th Year Maintenance				11541
7	6 th year Maintenance				12262
8	7th year Maintenance				12983
9	8th year Maintenance				13704
10	9th year Maintenance				14426
11	10th year Maintenance				15147
GRAND TOTAL (Cost Norm per Ha):-					300895
	Area to be taken for Comepsatory Afforestation	<i>ha</i>	3.25		
	Cost for compensatory afforestation (3.25 ha) =	<i>ha</i>	3.3	300895	977907
	Add 17.50% Departmental Charges		1	17.50%	171134
	Add 5% Contigency charges on CA		0	5%	48895
Total Compensatory afforestation scheme Cost for 3.2.5 ha =					1197936
(Eleven Lakh Ninty Seven Thousand Nine Hundred Thirty Six Rupees only)					
Note:-					
1	Above scheme is liable to correct as per instruction/guide lines issued by the Govt. time to time.				
2	Any Bonafide mistake grammatical or other wise shall be liable to corrected.				


 Deputy Conservator of Forest
 Parvati Forest Division, Shamshi, Kullu

RECLAMATION PLAN OF DUMPING SITES OF GRAHAN-KASOL (5.0 MW)

In respect of diversion of Forest land 1.6201 hectares for the construction of Grahan-Kasol (5.0 MW) Small Hydro Project in Kasol Forest Range, Parvati Forest Diversion Shamshi, Distt. Kullu H.P.

Sr. No.	Dumping Site No.	Length	Width.	Area in Sqm	Area in Ha.	Fence post	
1	Dumping Site-1	12	10	120.00	0.0120	15	Nos.
2	Dumping Site-2	15	12	180.00	0.0180	18	Nos.
3	Dumping Site-3	40	20	800.00	0.0800	40	Nos.
4	Dumping Site-4	40	20	800.00	0.0800	40	Nos.
5	Dumping Site -5	30	20	600.00	0.0600	33	Nos.
6	Dumping Site-6	10	6	60.00	0.0060	11	Nos.
7	Dumping Site -7	10	6	60.00	0.0060	11	Nos.
8	Dumping Site-8	30	20	600.00	0.0600	33	Nos.
9	Dumping Site-9	50	15	750.00	0.0750	43	Nos.
10	Dumping Site-10	40	20	800.00	0.0800	40	Nos.
Total					0.48	284	Nos.

Or Say **290**

Total Area 0.48 hectare

Sr. No.	Particulars of Work	Quantity	Rate per Unit at the wage rate of Rs. 150/-	Amount @ Rs 150/- for Non-Tribal areas	Man Days involved	Amount at the wage rate of Rs 400/- for Non-Tribal areas
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A SURVEY, DEMARCATION & FENCING

1	Import of Soil including carriage	4293 cum	LS	LS	LS	₹ 2,20,000.00
2	Laying of soil on DS up to 3 ft	1431 sqm	LS	LS	LS	₹ 50,000.00
3	Survey & demarcation of plantation area	0.477 hec.	101	48	0.32	₹ 128.00
4	Preparation / purchase of RCC fence posts	290 Nos.	500	145000		₹ 1,45,000.00
5	Carriage of RCC fence posts upto 165 cm long over distance 2 km uphill/downhill	290 Nos. / km	33.5	19430	129.53	₹ 51,813.33
6	Preparation /digging of holes of 20x30x50 cm size	290 Nos.	9.06	2627	17.52	₹ 7,006.40
7	Fixing of RCC fence posts including strutting	290 Nos.	7.16	2076	13.84	₹ 5,537.07
8	Carriage of barbed wire over distance 2 km uphill/downhill	7.30 Qtls./ km	73.65	1076	7.17	₹ 2,868.56
9	Stretching & fixing of barbed wire in 4 strands + 2 stand for crossing	5112 Rmt.	4.8	24538	163.58	₹ 65,433.60
8	Interlacing of Thorny Bushes along the fence	852 Rmt.	4.09	3485	23.23	₹ 9,292.48
9	Cost of Barbed Wire	7.30 Qtls.	9000	65726		₹ 65,725.71
Total-A/ Survey, Demarcation & Fencing						₹ 6,22,805.16
Or Say Rs						₹ 6,22,805.16

Divisional Forest Officer
Parvati Forest Division
Shamshi

B	PLANTING :-						
1	Bush Cutting in Strips (3mx3m)	0.477	hec.	1192.8	569	3.79	₹ 1,517.24
2	Digging of pits of 45x45x45 cm size	524	Nos.	9.54	5001	33.34	₹ 13,335.03
3	Filling of pits of 45x45x45 cm size	524	Nos.	2.72	1426	9.51	₹ 3,802.02
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	524	Nos.	1.9	1992	13.28	₹ 5,311.65
5	Planting of plant Raised in P/Bags	524	Nos.	2.18	1143	7.62	₹ 3,047.21
6	Construction of Inspection Path	100	Rmt.	11	1100	7.33	₹ 2,933.33
7	Cost of sign Board Carriage & Fixing		No.	1/s	450	10	₹ 4,500.00
Total- B/ Planting							₹ 34,446.49
Or Say Rs							₹ 34,450.00
Grand Total (A+B)							₹ 6,57,255.16
	Cost of Tall plants (75-00 per plant)	524	Nos.				₹ 39,313.19
Grand Total							₹ 6,96,568.34
Or Say Rs							₹ 6,96,568.34
C	1st Year maintenance (30% Beating up)						
1	Re-digging of pits of 45x45 cm size	157	Nos.	4.77	750	5.00	₹ 2,000.25
2	Filling of pits 45x45x45 cm	157	Nos.	2.72	428	2.85	₹ 1,140.61
3	Planting of plants raised in P/Bags	157	Nos.	2.18	343	2.29	₹ 914.16
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	157	Nos./K m	1.9	598	3.98	₹ 1,593.49
5	Repair of B/Wire fencing	1533.6	Rmt.	1.8	2760	18.40	₹ 7,361.28
6	Cost of plants (75-00 per plant)	157	Nos.	75	11794		₹ 11,793.96
Total							₹ 24,803.75
Or Say Rs							₹ 24,804.00
D	2nd Year maintenance (20% Beating up)						
1	Re-digging of pits of 45x45 cm size	105	Nos.	4.77	500	3.33	₹ 1,333.50
2	Filling of pits 45x45x45 cm	105	Nos.	2.72	285	1.90	₹ 760.40
3	Planting of plants raised in P/Bags	105	Nos.	2.18	229	1.52	₹ 609.44
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	105	Nos./K m	1.9	398	2.66	₹ 1,062.33
5	Repair of B/Wire fencing	1022.4	Rmt.	1.8	1840	12.27	₹ 4,907.52
6	Cost of plants (75-00 per plant)	105	Nos.	75	7863		₹ 7,862.64
Total							₹ 16,535.84
Or Say Rs							₹ 16,536.00
E	3rd Year maintenance (10% Beating up)						
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20

Shamshir
 Deputy Forest Officer
 Divisional Forest Officer

3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72	
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16	
5	Repair of B/Wire fencing	511	Rmt.	1.8	920	6.13	₹ 2,453.76	
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32	
Total							₹ 8,267.92	
Or Say Rs							₹ 8,268.00	
F	4th Year maintenance (10% Beating up)							
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75	
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20	
3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72	
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16	
5	Repair of B/Wire fencing	511.2	Rmt.	1.8	920	6.13	₹ 2,453.76	
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32	
Total							₹ 8,267.92	
Or Say Rs							₹ 8,268.00	
G	5th Year maintenance (10% Beating up)							
1	Re-digging of pits of 45x45 cm size	52	Nos.	4.77	250	1.67	₹ 666.75	
2	Filling of pits 45x45x45 cm	52	Nos.	2.72	143	0.95	₹ 380.20	
3	Planting of plants raised in P/Bags	52	Nos.	2.18	114	0.76	₹ 304.72	
4	Carriage of plants in P/Bags over distance 2 km uphill/downhill	52	Nos./K m	1.9	199	1.33	₹ 531.16	
5	Repair of B/Wire fencing	511.2	Rmt.	1.8	920	6.13	₹ 2,453.76	
6	Cost of plants (75-00 per plant)	52	Nos.	75	3931		₹ 3,931.32	
Total							₹ 8,267.92	
Or Say Rs							₹ 8,268.00	
Total Maint. (C to G)							₹ 66,144.00	
Total New planting & Maint							₹ 7,62,712.34	
H	For Plant Watering of plants at Dumping site							₹ 50,000.00
Sub Total							₹ 8,12,712.34	
Add 17.50% Department charges							₹ 1,42,224.66	
Add 5% contingency charges							₹ 40,635.62	
Grand Total							₹ 9,95,572.62	
Or Say							₹ 9,95,572.00	
Rupees Nine Lakh Ninety Five Thousand Five Hundred Seventy Two Only.								


Prabh Singh
Prop-

Deputy Conservator of Forest
Parvati Forest Division Shamshi
Distt. Kullu HP.

TABLE- 4(a)

Financial Outlay-Cost Estimates for Wildlife Mitigation Plan for Grahan Kasol SHEP project										
Sr. No.	Activity	Qty	Unit	year-1	Year-2	Year-3	Year-4	Year-5	Total	Remarks
A	Wildlife Management									
1	Habitat Restoration in ESZ	LS	LS	50000	150000	200000	250000	300000	950000	plan need to be prepared through WII Dehradun by UA
2	Habitat Connectivity & Corridor Establishment-Creation of over/ under passes at specific locations for smooth wildlife movement	2	No	0	300000	0	300000	0	600000	site specific, based on obstructions generated
3	Creation of water holes/ponds in ESZ & WL Sanctuary	15	No	75000	75000	75000	75000	75000	375000	site specific for wild life
4	Eradication of unwanted weeds in ESZ & WL Sanctuary	10	HA	25000	25000	25000	25000	25000	125000	5ha in ESZ & 5 ha in WL Sanctuary
5	Awareness camps and training workshops for local community	10	No	30000	30000	30000	30000	30000	150000	for effective participation of local community in conservation
6	Survey and estimation of flora & Mega fauna in Kanawar WLS & ESZ	3	no.	100000	0	100000	0	100000	300000	by engaging experts from WII Dehradun etc
7	Preparation of checklist of birds in ESZ & WL Sanctuary	2	no.	25000	0	0	0	25000	50000	By engaging expert birders and field staff
8	Training & Exposure visits to field staff	LS	LS	50000	50000	50000	50000	50000	250000	to enhance the capacity of field staff

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Deputy Conservator of Forest,
Parvati Forest Division, Shimshi

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9	Field Equipment (Camera, Wireless system, search lights, GPS, camera traps, camping equipment, surveillance drone, safety gears' etc.)	LS	LS	100000	75000	0	75000	0	250000	Required for patrolling and wildlife surveillance, monitoring etc
	Sub-total (A) =	42	0	455000	705000	480000	805000	605000	3050000	
B	Biodiversity Conservation									
1	Enrichment plantation in ESZ	5	Ha	230000	60000	45000	45000	35000	415000	works to be carried out by Forest Department at the cost of UA
2	Soil & Moisture Conservation activities such as bio-engineering measures, check walls, check dams, contour trenching, retaining walls, water ponds etc	LS	LS	500000	50000	50000	50000	50000	700000	
3	Preparation of Biodiversity register	1	No.	100000	0	0	0	0	100000	work to be done by local BMC & Forest department
4	Identification of Invasive species and recovery of susceptible species in ESZ	LS	LS	25000	25000	50000	50000	100000	250000	by engaging experts from WII Dehradun or IIFM Bhopal etc
	Sub-total (B) =	6	0	855000	135000	145000	145000	185000	1465000	
C	Forest Protection									
1	Reward for communities living in the villages which are falling inside the ESZ	LS	LS	15000	15000	15000	15000	15000	75000	incentive for community & field staff
2	Amenities to patrolling staff	LS	LS	25000	0	25000	0	25000	75000	required for effective surveillance
3	C/o watch towers at appropriate locations for surveillance (02 nos.)	1	no.	150000	0	150000	0	0	300000	for patrolling & Wild life rescue operations etc
4	Mobility to field staff (hiring of vehicle for patrolling and rescue operations)	LS	LS	30000	30000	30000	30000	30000	150000	
5	Maintenance of fire lines	LS	LS	20000	20000	20000	20000	20000	100000	fire protection

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6	Purchase of computer & Printers etc for o/o Kasol Forest Range	LS	LS	75000	75000	15000	15000	20000	200000	up gradation of Range office to be carried out from IIRS Dehradun or FSI Dehradun
7	Remote Sensing Survey & preparation of GIS Map, LiDAR (Light Detection and Ranging) survey	LS	LS	100000	0	100000	0	0	200000	to be done jointly by Territorial division & wild life division
8	Installation of Boundary pillars in ESZ & Kanawar WL Sanctuary	LS	LS	50000	75000	25000	25000	25000	200000	to be carried out through Wild Life Institute of India, Dehradun
	Sub-total (C) =	1	0	315000	140000	255000	80000	110000	900000	
D	Research and Development activities									
1	Research and Development activities related to flora and fauna of the Eco Sensitive Zone i.e. study of genetics of mega fauna etc	LS	LS	100000	0	0	0	100000	200000	to be carried out through Wild Life Institute of India, Dehradun
2	Research and Development activities related to flora and fauna in Kanawar wildlife Sanctuary i.e. study of genetics of mega fauna etc	LS	LS	100000	0	0	0	100000	200000	to be carried out through Wild Life Institute of India, Dehradun
3	Sinages & monitoring	10	10	50000	0	25000	0	25000	100000	To be established by User Agency or by Forest Department at the cost of UA
4	Establishment of weather station	1	1	350000	0	0	0	0	350000	
5	Purchasing of Biomass and Carbon Measurement, Acoustic Monitoring Devices Tools etc	LS	LS	200000	50000	0	50000	0	300000	
	Sub-Total (D) =	11	11	800000	50000	25000	50000	225000	1150000	
	Grand Total (A+B+C+D) =	60	11	2425000	1030000	905000	1080000	1125000	6565000	

Deputy Conservator of Forest,
Parvati Forest Division, Shimla

**Himachal Pradesh Forest Department
Parbati Forest Division, Shamshi.**

Calculation of Revised Net Present Value (NPV) as per Hon'ble Supreme Court of India order dated 28.03.08 in CWP© 202of 1995 and as per recommendation of State Advisory Group meeting dated 24.01.12 and Ministry of Environment Forest and Climate Change (FCA) GoI letter No. 5-3/2011-FC(vol.-1) dated 6-01-2022 for 1.6201 ha Forest land proposed for diversion in favour of M/S Dinesh Butail for c/o Grahani Kasol (5.00MW) Small Hydro Project.

Name of Project		Grahani Kasol SHEP (5.00MW)							
User Agency		M/S Dinesh Butail (Sole) Butail Complex- Bandla Tea Estate Palampur- Kangra-176061							
Sr. No.	Name of Forest	Location	AREA in Ha.			Category of NPV	Category of rate for NPV	Normal Rate of NPV/ha	50% rate of NPV/ha as per GoI It. dated 6-1-022 (applicable up to 25MW SHEP if project involves felling of trees not more than 5trees per hectare.)
			Mature * Stems	Area ^ involved	Crown Density				
1	1/9 Khobas (DPF)	Grahani beat, Kasol Block of Kasol Range	144	1.6201 ha	22.22% or 0.222	Open Forest	Eco-Class VI	10,69,470/-	5,34,735/-

Total : 1.62 ha

Notes:

Mature * Stems All trees above Dia class – III + Half the number of all the trees Dia Class IV and below

Area ^ involved Area involved in the construction of Grahani Kasol SHEP (5.00MW)

ABSTRACT (Rupees in Rs and Area in Ha)

Forest Cover Classes	Category of rate for NPV	Area involved	Rate	Amount
	Open Forest	1.6201 ha	10,69,470	17,32,648/-

(Rs. Seventeen Lac Thirty Two Thousand Six Hundred Forty Eight Only)

Deputy Conservator of Forests,
Parvati Forest Division, Shamshi.

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**Bill of trees coming in the Final Alignment of Grahan Kasol SHEP (5.00 MW)
M/S Dinesh Butail, Palampur, Distt. Kangra, HP (Area proposed for diversion = 1.620 ha.)**

Enumeration list of trees of Grahan Beat, Kasol Block, Kasol Forest Range, Parvati Forest Division

TOTAL ABSTRACT

S.No	Species	No. & Vol. (m ³)	Class wise										Total Volume (m ³)	Rate/ m ³	Amount In Rs.		
			V	IV	III	II A	II B	IA	IB	IC	ID	No.					
1	Deodar	No. 1 Vol. 0.10	1	0	0	0	0	1	0	0	0	2	1	1	7		
2	Kail	No. 0 Vol. 0.00	1	0	0	0	0	1	0	0	0	1	1	2	6		2438870
3	Rai	No. 0 Vol. 0.00	0	0	0	0	0	0	0	0	0	0	0	0	0		0
4	Poplar	No. 1 Vol. 0.30	0	0	0	0	0	0	0	0	0	0	0	0	0		180479
5	Khirak	No. 7 Vol. 2	6	9	12	6	3	3	2	1	1	1	1	0	35		16609
6	Daral	No. 3 Vol. 1.50	0	8	14.40	6	4.4	13.0	8	0	0	0	0	1	19		1298589
7	Baras	No. 2 Vol. 0.60	0	3	4	0	0	0	0	0	0	0	0	0	5		0
8	Mahun	No. 5 Vol. 2	3	3	5	7	0	0	0	0	0	1	0	0	15		96490
9	Ban	No. 0 Vol. 0.00	0	1	2	0	0	0	0	0	0	0	0	0	0		416111
10	Khachan	No. 1 Vol. 0.20	0	0	0	0	0	0	0	0	0	0	0	0	1		0
11	Rubinia	No. 1 Vol. 0	0	1	1.00	0	0	0	0	0	0	0	0	0	2		4020
											Total	97	224.10	5003782			
											I. Tax@ 2.5%		125095				
											Surcharge on I. Tax 3%		3753				
											Grand Total:-		5132629				

Rupees Fifty One Lac Thirty Two Thousand Six Hundred Twenty Nine Only)

Deputy Conservator of Forests,
Parvati Forest Division, Shamshi