No. FCA/ 3551

HP Forest Department.

Dated Nahan,the\_

From:

DFO Nahan.

To: CF Nahan.

Subject:-

Diversion of 5.828 hectare of Forest land in favour of HPPWD for C/O of link road from Jabbal Ka bag , Kandaiwala, Kharkon Km 0/0 to 12/255 within the Jurisdiction of Nahan Forest Division, Nahan , Tehsil, Nahan, Distt. Sirmour H.P.

8/10/2024

Memo:

Reference:

MOEF Shimla letter No. FC/HPC/06/172/2022 dated 19.07.2024 observation

raised by Integrated Regional Office Shimla on the subject cited above.

Memo,

In this regard vide above referred letter the point wise reply of observations is

given as under:-

Sl.No.	Observations	Reply
1.	In reference to the observation-2 & 9,	All the components of the proposed project have
	Reply Not Accepted, State Govt.	been marked as Polygon and same has been
	submitted that earlier wrong KML file	uploaded in Part 1 of the Parivesh Portal.
	was erroneously uploaded earlier on	Correction has been made in the KML file and same
	the PARIVESH portal. Now, the fresh	has been uploaded in Part 1 (as mentioned in B-2.4
	and final KML file has been uploaded.	in polygon feature) of the Parivesh Portal.
	However, as per the DSS analyses, the	As replied by the user agency the alignment from
	components of the proposed project has	0/00 to3/320 and 3/320 to 4/120 RD is not
	is marked as line features instead of	connected to existing road. The portion from km
	Polygon. Also, it has been observed	0/0 to 3/200, 3/735 to 4/120, 4/650 to 5/200,
	upon perusal of KML, the alignment i.e.	9/460 to 11/640, 12/040 to 12/255 will be
	0/00to3/320 and 3/320 to 4/120 RD	passing through forest land and portion from km
	(As marked in KML) is already well	3/200 to 3/735, 4/120 to 4/650, 5/200 to 9/460
	connected to existing road. Therefore,	and 11/640 to 12/040 will pass through private
	State Govt shall submit revised KML,	land.
	showing all the components (as	Revised Toposheet has been uploaded in additional
	mentioned in B-2.4) in polygon feature	information at Sr. No. 27 of Part 1& revised Digita
	and provide the comments of DFO	Map has been uploaded in additional information
	concerned, since the alignment from RD	by the User agency at Sr. No. 28 of Part 1.
	0/00 to3/320 and 3/320 to4/120 is	•
	already connected to existing road.	

NIO	Observations	Reply
i.	Ill reference to the observe	Three dumping sites have been proposed for the construction of road. Two dumping sites in the forest area are taken so that there will be no adverse impact on the nearby surroundings during generation and dispose of the muck and one dumping site has been proposed in the Non-Forest Land. Moreover, as per requirement of the project, Muck dumping site has been identified in an over an area 1.91 ha. Forest land and found suitable for temporarily disposal of muck. The temporarily muck dumping site will be handed over back to the State Forest Department after completion of construction activities. Most of the area is Forest Land and some of the Private land available in locating muck dumping site in Private land / Non-Forest landing nearby area has been examined explored in Forest area and after carefully examine the possibility of muck dumping site, it was found that no Private land / Non-Forest land is available in nearby area which is suitable for disposal of muck. The area available in Private land / Non-Forest land is very far distance from project area and steep sloppy which is not possible to ful fill the requirement of dumping site. Muck calculation has been done again and found that three dumping sites are sufficient to cater the muck generated during the construction of road.  Enumeration list of trees & enumeration list involved in the dumping sites is enclosed and same has been uploaded in the web portal in additional information at Sr.No. 5  Prior to start of dumping activity, muck disposal area will be protected with retaining structure to avoid any spillage of muck. After the completion of dumping activity, proper restoration plan with Biological and Engineering measures will be implemented for restoration of the dumping area. A suitable reclamation plan has been uploaded in additional information at Sr. No. 30 of Part 1.Revise muck dumping plan prepared & duly

Sl.No.	Observations	Reply
ii.	Since 1.685 ha out of 5.828 ha is proposed for muck dumping, which may be avoided from muck disposal, therefore, State Govt shall explore non forest land for muck dumping.	Three dumping sites have been proposed for the construction of road. Two dumping sites in the forest area are taken so that there will be no adverse impact on the nearby surroundings during generation and dispose of the muck and one dumping site has been proposed in the Non-Forest Land.  Moreover, as per requirement of the project, Muck dumping site has been Identified in an over an area 1.91 ha. Forest land and found suitable for temporarily disposal of muck. The temporarily muck dumping site will be handed over back to the State Forest Department after completion of construction activities.  Most of the area is Forest Land and some of the Private land available in locating muck dumping site in Private land / Non-Forest land in nearby area has been examined explored in Forest area and after carefully examine the possibility of muck dumping site, it was found that no Private land / Non-Forest land is available in nearby area which is suitable for disposal of muck. The area available in Private land / Non-Forest land is very far distance from project area and steep sloppy which is not possible to fulfil the requirement of dumping site.
3.	In reference to the observation-10, Reply Not Accepted, State Govt shall provide the detailed and scaled format layout showing all the components (Forest/Non-forest/dumping sites, RE wise etc), duly authenticated by DFC concerned.	components (Forest/Non-forest/dumping sites, RD wise etc), duly signed by DFO, Nahan. Layout has been uploaded in additional information by the UA at Sr. No. 31 of Part 1.

This is for information and further necessary action please.

Divisional Forest Officer, Nahan Forest Division.

### HIMACHAL PRADESH PUBLIC WORKS DEPARTMENT

No. PW/NHN/CB/WA/I/FCA-11/2024-25- 4919

Dated: 07/10/3094

To

The Divisional Forest Officer. Nahan, District Sirmaur (H.P.).

Subject:

Diversion of 5.828 ha of forest land in favour of HPPWD for construction of link road from Jabbal ka bag, Kandlawala, Kharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

Online proposal no:- FP/HP/ROAD/140946/2021

Reference:

MoEF&CC, Shimla office letter No. FC/HPC/06/172/2022 dated

19.07.2024.

Sir.

This is with reference to your office letter quoted under reference on the above subject cited matter. In this regard, your kind attention is invited on the points, which is as under:-

- Constitution of the last	Sl. No.	Observations
and an inches	1.	In reference to the observation-2
-		& 9, Reply Not Accepted, State Govt.
P. Philippiness		submitted that earlier wrong KML
Super-liftman, lifetime		file was erroneously uploaded earlier
- Company of the last of the l		on the PARIVESH portal. Now, the
		fresh and final KML file has been
		uploaded. However, as per the DSS
		analyses, the components of the
		proposed project has is marked as
		line features instead of Polygon. Also,
		it has been observed upon perusal of
		KML, the alignment i.e. 0/00 to3/320
		and 3/320 to 4/120 RD (As marked
		in KML) is already well connected to
		existing road. Therefore, State Govt
		shall submit revised KML, showing all
		the components (as mentioned in B-
		2.4) in polygon feature and provide
		the comments of DFO concerned,
		since the alignment from RD 0/00
		to3/320 and 3/320 to4/120 is
		already connected to existing road.
		즐겁게 되었는 그 보면 없는 가능을 통해 있는 바람이 되었다.

All the components of the proposed project have been marked as Polygon and same has been uploaded in Part 1 of the Parivesh Portal. Correction has been made in the KML file and same has been uploaded in Part 1 (as mentioned in B-2.4 in polygon feature) of the Parivesh Portal.

Reply

The alignment from 0/00 to 3/320 and 3/320 to 4/120 RD is not connected to existing road. The portion from km 0/0 to 3/200, 3/735 to 4/120, 4/650 to 5/200, 9/460 to 11/640, 12/040 to 12/255 will be passing through forest land and portion from km 3/200 to 3/735, 4/120 to 4/650, 5/200 to 9/460 and 11/640 to 12/040 will pass through private land.

Revised Topo sheet has been uploaded in additional information at Sr. No. 27 of Part 1 & revised Digital Map has been uploaded in additional information at Sr. No. 28 of Part 1.

Observations In reference to the observation-7 Sl. No. Not Accepted, Reply clarification was sought regarding 8 the shifting of the dumping sites from forest lands to Non-forest land as well as details of trees in dumping clarification However, sites. regarding the same not found justifiable as well as details of Trees in dumping site not found uploaded. It has also been observed that only 3 dumping sites proposed for 12.25  $\,\mathrm{km}$ road which does not seems sufficient. Further, out of three sites, two site proposed in forest area having 1.685 ha area out of total 5.828 ha area. It is seen from the KML file that plenty of NFL available in the area. Therefore, provide may State Govt justification/clarification/documents. State Govt shall re-assess the total quantity of muck to be generated and prepare revise muck dumping plan

duly authenticated by DFO including

swell factor also. As the propose road

is going parallel to river, so the muck

dumping plan should include the

engineering structure to stop the

measures/

muck

/protection

down

river/Agriculture field.

Reply

sites have dumping Three proposed for the construction of road. Two dumping sites in the forest area are taken so that there will be no adverse impact on the nearby surroundings during generation and dispose of the muck and one dumping site has been proposed in the Non-Forest Land. Moreover, as per requirement of the project, Muck dumping site has been identified in an over an area 1.91 ha. forest land and found suitable for temporarily disposal of muck. temporarily muck dumping site will be handed over back to the State Forest completion after construction activities. Most of the area is Forest Land and some of the Private land available in locating muck dumping site in Private land / Non-Forest landing examined been nearby area has explored in Forest area and after carefully examine the possibility of muck dumping site, it was found that no Private land / Non-Forest land is available in nearby area which is suitable for disposal of muck. The area available in Private land / Non-Forest land is very far distance from project area and steep sloppy which is not possible to fulfill the requirement of dumping site. Muck calculation has been done again and found that three dumping sites are sufficient to cater the muck generated during the construction of road.

Enumeration list of trees involved in the dumping sites will be provided by forest department.

Prior to start of dumping activity, muck disposal area will be protected with retaining structure to avoid any spillage of muck. After the completion of dumping activity, proper restoration plan with Biological and Engineering measures will be implemented for restoration of the dumping area. A suitable reclamation plan has been proposed and submitted to forest department has been uploaded in additional information at Sr. No. 30 of Part 1. Revise muck dumping plan prepared & duly singed by DFO same has been uploaded in additional

aid 20 of Part 1.

i.

proper

rolling

SI. No	. Observations	
ii.	Since 1.685 ha out of 5.828 ha is	Reply
	proposed for muck dumping, which	damping sites have been
	may be avoided from muck disposal	proposed for the construction of road Two dumping sites in the forest area are
	therefore St	taken so that there will be no advers
	therefore, State Govt shall explore	impact on the nearby surrounding
	non forest land for muck dumping.	during generation and dispose of the
		muck and one dumping site has been
		proposed in the Non-Forest Land.
		Manager as non-requirement of the
		Moreover, as per requirement of the project, Muck dumping site has been
		Identified in an over an area 1.91 has
		Forest land and found suitable for
		temporarily disposal of muck. The
		temporarily muck dumping site will be
		handed over back to the State Forest Department after completion of
		Department after completion of construction activities.
		Most of the area is Forest Land and
		some of the Private land available in
	**	locating muck dumping site in Private
	×	land / Non-Forest land in nearby area has been examined explored in Forest
	, *	area and after carefully examine the
		possibility of muck dumping site, it was
		found that no Private land / Non-Forest
		land is available in nearby area which is
		suitable for disposal of muck. The area available in Private land / Non-Forest
		land is very far distance from project
*	Military and the state of the s	area and steep sloppy which is not
		possible to fulfill the requirement of
		dumping site.
3.	In reference to the observation-10,	Detailed and scaled format layout
	Reply Mot Mecepied, cutte	showing all the components
	provide the detailed and scaled (	Forest/Non-forest/dumping sites, RD
	format layout showing all the	wise etc), duly signed by DFO, Nahan.
1	TOTALINE THE	ayout has been uploaded in additional
	Component	nformation at Sr. No. 31 of Part 1.
1	loresty dumping sites, to the stay	
	duly dudiented	
	concerned.	

You are requested to kindly scrutinize the documents for further process.

Executive Engineer B & R Division HPPWD Nahan

2

Al Title	of the	Projec	ct:- Const	ruction of	link roa	id fro	m Jabbal ka	bag	, Kand	iawala,
harkon	road	(kms.	0/00 to	12/255),	within	the.	jurisdiction	of	Nahan	Forest
Division.	Distri	ct Sirm	aur, H.P.							

File No.	113.						
	743		3.7	4			
Date of Proposa	ıl:	100		100	- lys	100	

# MUCK MANAGEMENT PLAN

1	Total quantity of muck to be generated from cutting	106110 m <sup>3</sup>
2	Deduction of useful stone as required under clauses of agreement to be executed by the Executive Engineer of Project implementing Unit division on behalf of Govt. of H.P.	17685 m³
3	for suing in the project.  Net balance quantity of debris/muck - (a)	88425 m³
3	*	
4	Add quantity available on site with swell factor @ 25% on PW	22107 m <sup>3</sup>
	& JW - (b)  Total (A) = $(a+b)$	110532 m³
- 5	Less for materials required for dumping in behind R/wall etc.	11053 m <sup>3</sup>
6	@10% of A -(c) Less for materials required for levelling of proposed road @	16579 m³
7	15% of A - (d)  Leave to right (muck required for levelling/filling of road on	44212 m <sup>3</sup>
,	the analogy of half cutting and half fittings @ 40% of A - (e)  Total (B) = (c+d+e)	71844 m³
8	Materials/Muck left at site which will require carriage for proper dumping into the recognized sites as per the	38688 m³
9.	various judgment of the Apex court Govt. of India i.e.(A-B)  Design proposed for dumping sites (attached)	3 No
9		41750 m <sup>3</sup>
10	Total capacity of dumping sites as per details attached	
11	Area in hectare for dumping sites.  i. Forest area  ii. Non-Forest Area  iii. Total	1.91 Hectare 0.69 2.6 Hectare

Executive Engineer B & R Division HPPWD Nahan

Countersigned by: -

I Title of t	he Proje	<u>ct:-</u> Constr	ruction of	link roa	d fro	om Jabbal ka	bag, Kand	iawala,
harkon roa	d (kms.	0/00 to	12/255),	within	the	jurisdiction	of Nahan	Forest
Division, Dist	rict Sirm	aur, H.P.						
File No.								

## **DETAILS OF DUMPING SITES**

Date of Proposal:-

Sr.	Name of	RD/KM	Area cor	Capacity of		
No dumping site		Forest area (in Ha.)	Non-Forest Area (in Ha.)	Total Area (in Ha.)	dumping sites. (in cum)	
1.	Dumping site No. 1	2/105 to 2/175	0.96	0	0.96	14700
2.	Dumping site No. 2	5/050 to 5/120	0	0.69	0.69	14700
3.	Dumping site No. 3	6/810 to 6/880	0.95	0	0.95	12350
		al :-	1.91	0	0.69	41750

Executive Engineer

B & R Division

HPPWD Nahan

Countersigned by: -

all Title of the Project:-	Consti	ruction of	link roa	d fr	om Jabbal ka	bag, Kan	diawala,
Kharkon road (kms. 0/	00 to	12/255),	within	the	jurisdiction	of Nahar	Forest
Division, District Sirmaur	, Н.Р.						
File No							
Data of Proposal:							

# DETAIL SHOWING THE CAPACITY OF DUMPING SITES

Sr. Name of dumping site		dumping RD/KM		Length	Quantity/ Capacity (cum)
1	Dumping site No. 1	2/105 to 2/175	210	70	14700
2.	Dumping site No. 2	5/050 to 5/120	210	70	14700
3.	Dumping site No. 3	6/810 to 6/880	190	70 .	12350
		Total			41750

Executive Engineer
B & R Division
HPPWD Nahan

Countersigned by: -

Alf Title of the Project:- Construction road (kms. 0/00 to	uction of	link road fr	om Jabbal ka	ba	o Kand	
charkon road (kms. 0/00 to Division, District Sirmaur, H.P.	12/255),	within the	Jurisdiction	of	Nahan	Forest
File No						

# DETAIL OF MEASUREMENT

<u>Full Title of the Project:</u> Construction of link road from Jabbal ka bag, Kandiawala, Kharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

(SH: Construction of wire crates for dumping sites)

Sr.	Description	No. L x B x H	Quantity
. No			in cum
1	Providing and laying of boulder apron laid on wire		
	crates with 4mm dia wire confirming to 1:5:280 and		
2	1:5:4826 in 100mmx100mm mesh (woven		
	diagonally) including 10% extra for lapse & joints laid		
	with stone boulders weighing not less than 25 kg	- TO	
	each.		
	Dumping Site No. 1 RD 2/105 to 2/175		
	1 <sup>st</sup> layer	70×2.40×1.20	201.6
-	2 <sup>nd</sup> layer	70×2.10×1.20	176.4
	3 <sup>rd</sup> layer	70×1.80×1.20	151.2
	4 <sup>th</sup> layer	70×1.50×1.20	126.0
2	Dumping Site No. 2 RD 5/050 to 5/120		
	detlerror	70×2.40×1.20	201.6
	1st layer	70×2.10×1.20	176.4
	2 <sup>rd</sup> layer	70×1.80×1.20	151.2
	3 <sup>rd</sup> layer  4 <sup>th</sup> layer	70×1.50×1.20	126.0
3	Dumping Site No. 3 RD 6/810 to 6/880		
	1 <sup>st</sup> layer	70×2.40×1.20	201.6

Title of the Project: Construction of link road from Jabbal ka bag, Kandiawala, tharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

Total		1965.6
4th layer	70×1.50×1.20	126.0
3rd layer	70×1.80×1.20	151.2
2 <sup>nd</sup> layer	70×2.10×1.20	176.4

Executive Engineer B & R Division HPPWD Nahan

Countersigned by: -

Divisional Forests Officer
Nahan Forest Division
Office Seal

Date:-

Title of the Project:- Construction of link road from Jabbal ka bag, Kandiawala, Kharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

File No. \_\_\_\_\_\_
Date of Proposal:- \_\_\_\_\_

## **ABSTRACT OF COST**

<u>Full Title of the Project:</u> Construction of link road from Jabbal ka bag, Kandiawala, Kharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

· (SH: Construction of wire crates for dumping sites)

Sr.	Sub head and item of work	Quantity	Rate	Unit	Amount
No.		(cum)			
1.	Providing and laying of boulder	1965.6	2850	Per cúbic	56,01,960
	apron laid on wire crates with 4mm			meter	
	dia wire confirming to 1:5:280 and				
	1:5:4826 in 100mmx100mm mesh		•		
	(woven diagonally) including 10%				
	extra for lapse & joints laid with	•			
,	stone boulders weighing not less	•			•
	than 25 kg each.				
1	Total		t in a section of		56,01,960

Executive Engineer
B & R Division
HPPWD Nahan

Countersigned by: -

Divisional Forests Officer Nahan Forest Division Office Seal

Date:-

harkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, oistrict Sirmaur, H.P.

File No	
Date of Propo	sal:

#### RECLAMATION PLAN

The total length of proposed alignment is 12.255 km with average width of 6.00 meter. The portion from km 0/0 to 3/200, 3/735 to 4/120, 4/650 to 5/200, 9/460 to 11/640, 12/040 to 12/255 will be passing through forest land and portion from km 3/200 to 3/735, 4/120 to 4/650, 5/200 to 9/460 and 11/640 to 12/040 will pass through private land. The road will be constructed in cut and fill method. A total quantity of 110532 cum of muck will be generated during the construction of this road. Material required for dumping in behind R/wall etc. which is calculated @10% i.e. 11053 cum. Material required for levelling of proposed road which is calculated @15% i.e. 16579 cum. Material/muck required for levelling/filling of road on the analogy of half cutting and half fittings which is calculated @40% i.e. 44212 cum. Materials/Muck left at site which will require carriage for proper dumping into the recognized sites will be 38688 cum.

The details of dumping site are as under:

### **DETAILS OF DUMPING SITES**

Co. November 1			Area co	Capacity of		
Sr. No	Name of dumping site	RD/KM	Forest area (in Ha.)	Non-Forest Area (in Ha.)	Total Area (in Ha.)	dumping sites. (in cum)
1.	Dumping site No. 1	2/105 to 2/175	0.96	0	0.96	14700
2.	Dumping site No. 2	5/050 to 5/120	- 0	0.69	- 0.69	14700
3.	Dumping site No. 3	6/810 to 6/880	0.95	0	0.95	12350
	Tota	al :-	1.91	0	0.69	41750

Thus, all the muck generated will be dumped in the designated dumping sites. 3 numbers of dumping sites designated as DS-1, DS-2 & DS-3 have been identified for dumping the muck/debris to be produced during the construction phases of the project. It is proposed that the dumping site are treated in such a manner that these do not pose any problem to the environment of the locality. This reclamation plan has been formulated with the following objective.

- To arrest the dumped muck in situ so that it does not find its way to the nearby drainage channels, thus altering the drainage pattern of the area.
- To rehabilitate the dumped area over a period of time so that it merges with the adjoining natural landscape and does not stand out as a sore point.

Title of the Project:- Construction of link road from Jabbal ka bag, Kandiawala, harkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, district Sirmaur, H.P.

File No		
	1.	
Date of Propos	ai:	

- To improve the aesthetic view of the dumping grounds/dumping site by planting suitable plants and trees species thereby increasing the vegetable cover in the area.
- To stabilize the dumping sites by vegetative and engineering structure.

## **IMPLEMENTATION**

The proposal will be implemented by the user agency itself at its own cost as detailed in this plan. The implementation, of the plan will be supervised by the forest department from time to time and the progress will be periodically monitored.

#### STRATEGY

The pronged approach will be followed for reclamation of the dumping sites. In the first instance crate walls will be erected around the dumping site so that the required capacity for dumping of muck is created at the site The details drawing of the crates works to be undertaken are enclosed. The primary objective of the crate work will be to arrest the dumped muck to the dumping site and not to allow its spillage to the adjoining are eventually to nearby drainage lines. The capacity of the dumping sites has been calculated and given in the above table and will be enough to hold the muck to be dumped in the each of the sites.

In the second phase once the dumping is complete it will be ensured that the dumping site is planted with the grasses, bushes shrubs so that it gives an aesthetic look. This vegetal cover will also help in binding the soil and will prevent its erosion for vegetating the dumping sites suitable local species will be preferred. However, it may be noted that the bulk of the muck to be dumped will be excavated materials which will be lacking in essential nutrients and organic matter and hence it will be desirable to increase the nutrients status of the top soil to be conductive to tree vegetal growth. For this purpose, maturing of the top soil be done if required the imported soil be brought to replenish the top soil. Intently the grasses and bushes will be planted in the area to improve the soil condition. Once these grasses and bushes take hold to the site the trees species will be planed, in the next phase. The Dumping site will be fenced with barbed wire fencing to prevent the entry of the stray cattle thereby ensuring the protection of the plant from grazing. Also due to inert nature of the soil, plant will be needing extra care for their establishment for the purpose imported soil/organic manure will be added in each pit for easy establishment of plants. Watering of the plant in dry session will be provided to prevent mortality. The plantation will be further plant maintained in project cost for ten years when beating up of failure will be done.

The plantation work will be started from the year following the completion of dumping site. However, erection of the crate walls around the dumping sites will be done period to actual dumping.

The total cost for reclamation Plan is Rs. 57,99,941 only.

harkon road (kms. 0/00 t	Construction to 12/255).	of link i within the	oad from iurisdicti	Jabbal k	ta bag, K	andiawala,
District Sirmaur, H.P.	,, ,, , , , , , , , , , , , , ,					or Division,
File No Date of Proposal:						

## POST RECLAMATION ARRANGEMENTS

Since the area in question is required by the user agency only for the temporary use of dumping. Hence the area will be reverted back to the forest department after implementation the reclamation plan, if so, stipulated by the Govt. of India. However, if at the time of so reverting back the forest department if any activity as per this reclamation plan is found wanting then the forest department may realize the cost of that activity from the user agency at the prevailing wage rates applicable in forest department and may get the same done departmentally at the project cost.

Executive Engineer
B & R Division
HPPWD Nahan

Countersigned by: -

Title of the Project:- Co kharkon road (kms. 0/00 to	nstruction of lin	k road from	Jabbal ka	bag, Kandiawala,
Tharkon road (kms. 0/00 to	12/255), within	the jurisdicti	on of Nahar	Forest Division,
District Sirmaur, H.P.				
File No.				
Date of Proposal:-				

# COST ESTIMATION OF RECLAMATION OF DUMPING SITE OF LINK ROAD FROM JABBAL KA BAG, KANDIAWALA, KHARKON ROAD (KMS. 0/00 TO 12/255), WITHIN THE JURISDICTION OF NAHAN FOREST DIVISION, DISTRICT SIRMAUR, H.P.

S. No.	Descriptions	Unit	Qty	Rate	Amount	
Α.		Engine	ering Measures			
1	Wire crate & Retaining walls		As per detail attached			
В		Biolog	gical Measures			
1	Cost of Fence post 30	Nos.	30	150	4500	
2	Carriage of fence post over a distance of km to work site manually	Nos.	30	8	240	
3	Fixing of fence post	Nos.	. 30	4.77	143	
4	Cost of Barbed wire	, Qtl.	0.30	5500	1650	
5	Carriage of Barbed wire by vehicle	Qtl	0.30	L/S	4000	
. 6	Carriage of Barbed wire to work site manually over distance of km	Qtl	0.30	L/S	1200	
7	Stretching & fixing of barbed wire	Rmt	270	3.16	854	
8	Interlacing of thorny. bushes in barbed wire	Rmt	270	2.74	740	
9	Layout of pits	На.	0.91	68.15	62	
10	Digging of pits 60x 60 x 60 cm	Nos.	1690	6.98	11796	
11	Filling of pits	Nos.	1690	1.42	2400	
12	Cost of plants	Nos.	1690	7	11830	
13	Carraige of plants by vehicle	Nos.	1690	1.5	2535	
14	Carriage of plants manually over a distance of km	Nos.	1690	2	3380	
15	Planting of entire plant raised in polybags	Nos.	1690	8.73	14753	
16	Planting of shrubs, grasses in interspaces	-	L/S ·	L/S	2000	

Title of the Project:- Construction of link road from Jabbal ka bag, Kandiawala, Charkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division, District Sirmaur, H.P.

File No. \_\_\_\_\_\_\_\_

Date of Proposal:- \_\_\_\_\_\_

S. No.	Descriptions,	Unit	Qty	Rate	Amount
17	Watering of plants during dry season	<u>-</u>	L/S	L/S	2000
18	Providing imported	Nos.	1690	5	8450
19	Watch and word	Man-days	50	200	10000
.B	Total (Rs.)	· :			82533
С	Contingencies 5%	,		· ·	4127
D	Maintenance from 1st to 10 years				28788
	Grand total (A+B+C+D)		•		57,99,941

Executive Engineer
B & R Division
HPPWD Nahan

Countersigned by: -

Divisional Forests Officer Nahan Forest Division

Office Seal Date:-

Full Title of the Project:- Construction of link road from Jabbal ka bag, Kandiawala, Kharkon road (kms. 0/00 to 12/255), within the jurisdiction of Nahan Forest Division,

File No		
Walter Street and Street Street Street Street		 -
Date of Prop	osal:-	

# 1st Year Maintenance with 25% Mortality

S.no	Description	Units	Quantity	Rate (Rs.)	Amount
1.	Re-digging of pits 60x 60 x 60 cm	Nos.	423	4.2	1777
2.	Filling of pits	Nos.	423	1.42	601
3	Cost of plants	Nos.	423	7	2961
4.	Carraige of plants by vehicle	Nos.	423	1.5	635
5.	Carriage of plants manually over a distance of km	Nos.	423	2	846
6.	Planting of entire plant	Nos.	423	7.36	3113
7.	Repair of fence	Rmt.	. 270	0.65	176
8.	Repair of fence plants	Rmt.	30	2.35	71
. ,		Total (Rs.)	·		10180

## 2nd Year Maintenance with 20% Mortality

S.no	Description	Units	Quantity ^	Rate (Rs.)	Amount
1.	Redigging of pits 60x 60 x 60 cm	Nos.	338	4.2	1420
2.	Filling of pits	Nos.	. 338	1.42	480
3	Cost of plants	Ņos.	338	7	2366
4.	Carraige of plants by vehicle	Nos.	338	1.5	507
5.	Carriage of plants manually over a distance of km	Nos.	338	2	676
6.	Planting of entire plant .	Nos.	338	7.36	• 2488
7.	Repair of fence	Rmt.	270	0.65	176
8.	Repair of fence plants	Rmt.	30	2.35	71
		Total (Rs.)			8184

Full Title of the Project:- (	onstruction of link road from Jahbal Is-
Kharkon road (kms. 0/00 to	construction of link road from Jabbal ka bag, Kandiawala, 12/255), within the jurisdiction of Nakar R
District Sirmaur, H.P.	o 12/255), within the jurisdiction of Nahan Forest Division,

File No.			1 1		
		1.1		_	_
Data of	Pronos	al:-		. 1	

# 3rd and 4th Year Maintenance with 15% Mortality

S.no	Description	Units	Quantity	Rate (Rs.)	Amount
1.	Redigging of pits 60x 60 x 60 cm	Nos.	254	4.2	1067
2.	Filling of pits	Nos.	254	1.42	361
3	Cost of plants	Nos.	254 .	7	1778
4.	Carraige of plants by vehicle	Nos.	254	1.5	381
5.	Carriage of plants manually over a distance of km	Nos.	254	2	508
6.	Planting of entire plant	Nos.	254	7.36	1869
7.	Repair of fence	Rmt.	270	0.65	176.
8.	Repair of fence plants	Rmt.	30	2.35	71
		Total (Rs.)			6210

## 5th to 10th Year Maintenance with 10% Mortality

S.no	Description	Units	Quantity	Rate (Rs.)	Amoun
1.	Redigging of pits 60x 60 x 60 cm	Nos.	169	4.2	710
2.	Filling of pits	Nos.	169	1.42	240
3	Cost of plants	Nos.	169	7	1183
4.	Carraige of plants by vehicle	Nos.	169	1.5	_ 254
5.	Carriage of plants manually over a distance of km	Nos.	169	2	338
6.	Planting of entire plant	Nos.	. 169	7.36	1244
7.	Repair of fence	Rmt.	270	0.65	176
3.	Repair of fence plants	Rmt.	30	2.35	71
	Total	(Rs.)			4214

Executive Engineer
B & R Division
HPPWD Nahan

Countersigned by: -







