

(सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India (Ministry of Road Transport and Highways, Govt. of India) परियोजना कार्यान्वयन इकाई पालमपुर Project Implementation Unit – Palampur



NHAI/PIU-PALM/11016/12/Forest-VA/23-24/

Aug, 2023

To,

The Deputy Conservator of Forest, Forest Division Mandi, Distt. Mandi H.P.

Sub: Diversion of 19.5896 ha Forest land for Rehabilitation and Up-Graddation to Two Lane with Paved shoulder configuration & Strengthening of Padhar to Bijni (Package-VA) from 180.00 to Km 202.815 (Design Length. 19.050 Km), of NH-20(New NH-154) of Pathankot- Mandi Section in the State of Himachal Pradesh under the jurisdiction of Mandi Forest Division Distt. Mandi, Himachal Pradesh (Online proposal no- FP/HP/Road/154466/2022)-Resubmission of case after attending the observations raised by Project Screening Committee held on 17/04/2023 thereof.

**Ref:** -Office Letter No.I/47162/202 dated: 23-06-2023.

Sir,

Please refer to the letter No.I/47162/202 dated: 23-06-2023 received from O/o Integrated Regional Office ,Ministry of Environment, Forest and Climate Change ,CGO Complex, ShivalikKhand, Longwood Shimla, Himachal Pradesh – 171001 ,under reference on the subject cited matter. In this regard, it is submitted that the observations pertaining to this office are being attended as under: -

Sr.	Observation Raised	Reply of User Agency
No		
1	State Govt. may upload the Project Screening Committee minutes on the designated column of the PARIVESH portal	Authorities.
2	<ul> <li>i. It has been observed from KML file that the dumping site is in very steep slope from where debris can be easily rolled down into river/household and agriculture land downhill side. Therefore, the State Govt. may submit mitigation measures to be adopted, so that debris could not be rolled down into the river/household/agriculture land downhill side.</li> <li>ii. The Muck dumping site is proposed in forest land. The suitable non-forest land/private land may be explored for</li> </ul>	traverses through Mountainous & Steep Terrain. Thus, steep slope of



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disposal of muck. Also, a separate list of trees standing in muck dumping site may be provided/uploaded if muck dumping is proposed in forest land. from iii. In revised muck disposal plan, total proposed area of muck dumping sites (Forest and Non-forest) is mentioned as 6.0750 ha, however in total calculation of the both dumping sites it is mentioned as 6.0180 ha. Also, it is submitted that "Out of the total 6.0180 ha, 4.2002 ha Forest land has already been diverted in 2021 through Proposal No-The FP/HP/Road/154466/2022 dated already 05.07.2022", however proposal mentioned(FP/HP/Road/154466/2022)

is submitted for FCA, 1980 approval. Therefore, State Govt. may review the muck management plan and clarify the contradictory statement mentioned in MMP. Environmental safeguard mitigation measures have been considered to prevent the debris from rolling down to river/household/agricultural land in downhill side.

These mitigation measures are proposed of gabion walls at different elevation levels to retain the muck as well as proposal of bio engineering techniques i.e. after completion of dumping, stone pitching and turfing with geo mats(Coir Textiles) etc will be done to stabilize the muck disposal site.

The detailed explanation has already been given in Muck Disposal Plan and same have been uploaded with the forest proposal. Kindly refer.

ii. As explained above, there are no other suitable sites available for muck disposal. Accordingly, these sites have been identified &selected for muck disposal and further duly checked and verified on ground by concerned Ranger & DFO during Joint site inspection on dated 16.12.2022.

Moreover, the list of trees standing in muck dumping sites are enclosed as **Annexure-I**.

iii. The actual area is 6.0180 ha only and no forest land has been diverted through the mentioned proposal no FP/HP/Road/154466/2022 dated 05.07.2022. Due to clerical mistake it was written as "Out of the total 6.0180 ha, 4.2002 ha Forest land has already been diverted in 2021



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3       referenced map of the Diversion area in legible format. Same may uploaded on the desired column of the PARIVSH portal.       Diversion area in legible format has been uploaded on the desired column now.         3       The detail of chainage-wise dimensions (Length and Width) and purpose wise breakup of proposed area showing Khasra no. wise details of forest area may be uploaded on the PARIVESH portal duly authenticated by DFO concerned.       The detail of chainage-wise dimensions (Length and Width) and purpose wise breakup of proposed area showing Khasra no. wise details of forest area may be uploaded on the PARIVESH portal duly authenticated by DFO concerned.         4       State Govt may provide the Jamabandi of the proposed DA area duly authenticated by DFO concerned now.       Jamabandi of the proposed DA area duly authenticated by Competent authority.         5       State Govt may submit the plantation model mentioning the site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC-11/39/2020-FC dated 08.09.2021.       In this Regard It is Submitted that the component of plantation of site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC-11/39/2020-FC dated 08.09.2021.         6       To be proposal is rehabilitation and up       It is submitted that portion of ERoW			through Proposal No- FP/HP/Road/154466/2022 dated 05.07.2022", Same have been corrected in the Muck Disposal Plan and Re-Revised Muck Disposal Plan is enclosed as <b>Annexure-II.</b> Further, it is stated that Out of 6.0180 ha, <b>4.2002 ha.</b> Area is Forest land identified in muck disposal sites which has been proposed for diversion through Proposal No FP/HP/ROAD/154466/2022 dated 05/07/2022 for muck disposal.
4(Length and Width) and purpose wise breakup of proposed area showing Khasra no. wise details of forest area may be uploaded on the PARIVESH portal duly 	3	legible format. Same may uploaded on the	been uploaded on the desired column
5the proposed DA area duly authenticated by competent authority.duly authenticated by competent authority is being uploaded now.5State Govt may submit the plantation model mentioning the site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC-11/39/2020-FC dated 08.09.2021.In this Regard It is Submitted that the component of plantation model has not been taken in the phase -I of the project. The same will be taken into account in the Phase - II of the project. An undertaking regarding " plantation of site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC- 11/39/2020-FC dated 08.09.2021" is being submitted.67-Since the proposal is rehabilitation and upIt is submitted that portion of ERoW	4	(Length and Width) and purpose wise breakup of proposed area showing Khasra no. wise details of forest area may be uploaded on the PARIVESH portal duly	dimensions (Length and Width) and purpose wise breakup of proposed area showing Khasra no. wise details of forest area has been uploaded on the PARIVESH portal duly
6model mentioning the site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC-11/39/2020-FC dated 08.09.2021.component of plantation model has not been taken in the phase -I of the project. The same will be taken into account in the Phase - II of the project. An undertaking regarding " plantation of site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC- 11/39/2020-FC dated 08.09.2021" is being submitted.67-Since the proposal is rehabilitation and upI7-Since the proposal is rehabilitation and up	5	the proposed DA area duly authenticated	duly authenticated by competent
7. Since the proposal is rehabilitation and up It is submitted that portion of ERoW	6	model mentioning the site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter	component of plantation model has not been taken in the phase –I of the project. The same will be taken into account in the Phase – II of the project. An undertaking regarding " plantation of site specific plant species, plant species which have capacity of the absorptions of CO2 and other pollutants to be planted along the PRoW as per guidelines of MoEF& CC vide letter no.FC- 11/39/2020-FC dated 08.09.2021" is
	7-	Since the proposal is rehabilitation and up	



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dation to two lane, therefore it may be rified that whether ERoW has been uded in the calculation of total ersion in the present proposal. Also, it y be clarified whether approval under A has been obtained for the ERoW? If , details of the same may be provided.	has not been included in the calculation of total diversion in the present proposal. The construction of the ERoW has been done in late 60's and at that time the there was no such act. It was only in 1980 that act came into existence .The land of the ERoW has already been Transferred to NHAI, detail of the revenue record of ERoW is being submitted.
ge numbers of trees and sapling (Total 2) including ecologically and nomically important species of tercus leucotrichophora, Cedrus dara, etc.) are proposed for felling. erefore, possibility of reducing the nbers of trees to be affected may be lored or rationalisation to be done in layout of the proposal to reduce green ing especially of Ban, Deodar and sham. Further, separate list of trees ich are required to be felled and hined (not to be felled) may be vided.	The proposed site has been finalized after proper site investigation and all the mitigation measures were taken care of .these site have been duly checked and verified on ground by concerned Ranger & DFO during Joint site inspection on dated 16.12.2022.The proposed site is best in all respect and the trees falling in to the alignment are un avoidable. Hence it is not possible to shift the alignment. it is submitted that all the possibilities were explored and the present alignment is unavoidable. Hence there is no, possibility of reducing the numbers of trees.
umeration list of trees with khasra nber details, which is duly henticated by the concerned DFO, ds to be provided/uploaded on the RIVESH portal Part-II.	This observation pertains to your good office.
part-II, para -4(ii) scientific name of the species is mentioned as "others". The Govt may review and rectify the the with proper scientific name.	This observation pertains to your good office.
the Site Inspection Report (SIR) of the O, it is reported that the extant proposal volves complete disruption of the sent nursery in Drang Range. Prefore, to establish the entire rastructure of Nursery an amount of RS. 73,126/- as calculated by RFO Drang is	The undertaking to this respect is being submitted.
	ified that whether ERoW has been uded in the calculation of total ersion in the present proposal. Also, it y be clarified whether approval under has been obtained for the ERoW? If details of the same may be provided. ge numbers of trees and sapling (Total 2) including ecologically and nomically important species of ercus leucotrichophora, Cedrus dara, etc.) are proposed for felling. refore, possibility of reducing the abers of trees to be affected may be lored or rationalisation to be done in layout of the proposal to reduce green ng especially of Ban, Deodar and sham. Further, separate list of trees ch are required to be felled and ined (not to be felled) may be vided. meration list of trees with khasra aber details, which is duly penticated by the concerned DFO, ds to be provided/uploaded on the RIVESH portal Part-II. art-II, para -4(ii) scientific name of the species is mentioned as "others". e Govt may review and rectify the e with proper scientific name. he Site Inspection Report (SIR) of the D, it is reported that the extant proposal volves complete disruption of the sent nursery in Drang Range. refore, to establish the entire astructure of Nursery an amount of RS.



# भारतीय राष्ट्रीय राजमार्ग प्राधिकरण (सड़क परिवहन और राजमार्ग मंत्रालय, भारत सरकार)

National Highways Authority of India (Ministry of Road Transport and Highways, Govt. of India) परियोजना कार्यान्वयन इकाई पालमपुर **Project Implementation Unit – Palampur** 



	compensated by Project Authority". Therefore, State Govt may submit an undertaking to the effect that User Agency shall establish the entire infrastructure of Nursery of the amount RS. 21,73,126/	
12	State Govt may provide the Joint inspection report of the extant proposal. Same may be uploaded on the PARIVESH portal.	The joint inspection report has been uploaded and the same is being submitted.
13	State Govt may provide the reclamation plan duly authenticated by DFO concerned.	The reclamation plan duly authenticated by DFO concerned is being submitted.
14	As the alignment is passing through the local/PwD Roads. Therefore, State Govt may provide the NoC from concerned department.	It is submitted that any PWD land which falls in the alignment of the road is upgraded and not acquired , there is no change in the title of the land .Hence NoC from PwD departments not obtained.
15	Following clarification/justification for CA area may be provided :- i. In part-II, para-13-(i), S. No-3, name of PF/RF is mentioned as "Sinhnala", however in the CA scheme and in location Map the name of RF/PF is mentioned as "Sihnal". Therefore, State Govt. may review and rectify the same. ii. As per DSS analysis, in the proposed CA Patch-6, 02 ha of area is under Moderately dense Forest (MDF) category. Therefore, state Govt may review and verify the same.	This observation pertains to your good office.
16	The status of proposed Compensatory Afforestation (CA) along with the documentary proof may be provided, whether it is Govt. waste land declared as PF under HP Govt. notification, 1952 or it is notified as UPF/DPF under IFA, 1927 and the under the ownership/control of HP Forest department or not.	This observation pertains to your good office.
_	1st& 2nd Floor Daval li Niwas One Govt Primary Schoo	Villaj Sminvalla.

1<sup>st</sup>& 2<sup>nd</sup> Floor, Dayal Ji Niwas, Opp. Govt. Primary School, Chimbalhaar, Palampur (HP) 176061, Email: - pdpiupalampur@gmail.com&piupalampur@nhai.org 201894-230(22/)1894-292938 Head Office: G-5&6, Sector-10, Dwarka, New Delhi – 110075



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17	The State Govt. may rectify and fill the district profile in Part-II, Para-14.	This observation pertains to your good office.
18	As the DA area passes through the hilly/undulating areas, there must be natural streams/Nallah/springs/waterfall on which local peoples depend for day-to- day life sustenance. Therefore, concerned Conservator of Forest may comment or provide the mitigation measures on the impact of such water resources due to the extant proposal.	measures on the impact of such water resources due to the extant proposal has been taken into account. Proper construction of Bridges, culverts, has been proposed .Therefore no loss or damage due to the construction of the

With Regards,

Surjewala) GM (T) cum Project Director

#### MUCK DISPOSAL PLAN

#### 1. Generated Muck Volume

Since proposed road completely traverses through Mountainous & Steep Terrain in Open Country due to which roadside cutting involves which requires removal of excavation of material i.e. soil, boulders etc.

The estimated volumes of muck to be generated from the road side cutting are given in table 1 below.

About 100% of the generated muck is to be reused in road construction for filling, construction of retaining/RS walls and in approaches of VUP as necessary. The total quantity of generated muck, reusable quantity, and quantity to be disposed are provided in **Table 2 below**.

S.No.	Description	Quantity	Unit
1	Material received from hill side cutting	654337.277	Cum
2	Total (1)	654337.277	Cum
3	Disposal and use o	of cutting material in road w	vork
I	Embankment filling from roadway cutting (80%)	131129.442	Cum
4	Total	131129.442	Cum
5	Material required to be disposed by cartage (2-4)	523207.835	Cum
6	Swell Factor 40%	209283.134	Cum
7	Total Material Required to be Disposed (5+6)	732490.969	Cum

#### Table: 1 Volume of Muck to be generated

#### Table 2 Summary of debris disposal

S.No.	Reused material for road construction	Total debris including 40% swell factor	Total disposal in dumping zone	
1	131129.442	732490.969	732490.969	

Note: - Muck disposal 732490.969 cum. shall be catered to muck dumping location (I) km 175+500 to km 175+950 Nearby village Matha Neval having Capacity 425250 cum. and muck dumping location (II) km 177+975 to km 178+580 having Capacity 1197900 Cum. Nearby village Bijni Total Capacity 1623150 Cum. section for NH-154

2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 202.815)

#### 2. Proposed Muck Disposal Sites

Two (02) muck disposal sites measuring a total area of 6.0180 ha have been selected as designated site for muck disposal as detailed in Table 3 below.

			Existin	g Land	To be ac	quired Land	
Villa	Sides	Survey No	Forest Land (Ha.)	Non Forest Land (Ha.)	Forest Land (Ha.)	Non Forest Land (Ha.)	Total Land (Ha.)
Math Niyu		230/1			0.0765	L	0.0765
		514/225/1			1.0790		1.0790
		514/225/2			0.2515		0.2515
		204/2			0.0016		0.0016
		204/3			0.0032		0.0032
		208			0.0103		0.0103
		206/1			0.0340		0.0340
		485/225/1				0.0101	0.0101
		215/1				0.0123	0.0123
		216				0.0625	0.0625
		217				0.0111	0.0111
		218/1				0.0377	0.0377
		205/1				0.0559	0.0559
		207				0.0086	0.0086
		209/2				0.0017	0.0017
Tano	ut	212/1			0.0765		0.0765
		214/1			0.0012		0.0012
		222/1			0.0067		0.0067
		452/360/1			0.0079		0.0079
		213				0.0275	0.0275
		216/1				0.1371	0.1371
Vibai S	monale	216/2				0.0283	0.0283
<u>2-Lar</u>	e+FS of Pkg-VA	Pathankot to Mar	ndi section	NH-154 (K	(M-180.00 t	o Km 202.815)	

### Table 3: Muck Disposal Sites-Present Status

			Existing Land		To be ac		
Village	Dumping Sides	Survey No	Forest Land (Ha.)	Non Forest Land (Ha.)	Forest Land (Ha.)	Non Forest Land (Ha.)	Total Land (Ha.)
		217				0.0206	0.0206
		218				0.0016	0.0016
		219/1				0.0213	0.0213
		220/1				0.004	0.0040
		224/1				0.02429	0.0243
		224/1/1				0.0121	0.0121
	Total				1.5484	0.4767	2.0250
Bijan	MDSII	1091/8/1			2.6518		2.6518
		9				1.0611	1.0611
		10				0.0101	0.0101
		24				0.0041	0.0041
		1456/1163/60				0.1815	0.1815
		1161/60				0.0434	0.0434
		1162/60				0.0410	0.0410
	Total				2.6518	1.3412	3.9930
	Grand T	otal			4.2002	1.8179	6.0181

The muck disposal lands proposed are generally in non-forest area but due to under-capacity some forest land has also been acquired within the PROW to fulfil the muck dumping as no other alternative non-forest land is available along the project area. Out of the total 6.0180 ha, 4.2002 ha. Area is Forest land which will be diverted through Proposal No FP/HP/ROAD/154466/2022 dated 05/07/2022 for muck disposal.

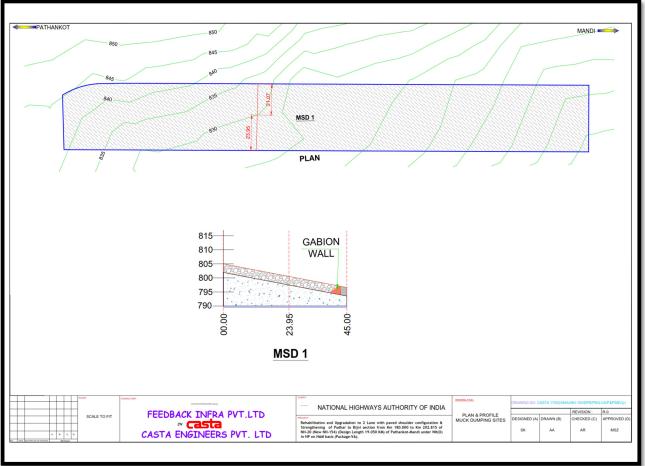
Digital elevation models, as presented in **Figure 1&2 below** of the Two (02) selected muck disposal sites, were prepared for all muck dumping sites to ascertain the topography and determining the location and length of the gabion wall for slope protection so as to prevent the muck from reaching into natural streams.

Summal

2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 202.815)

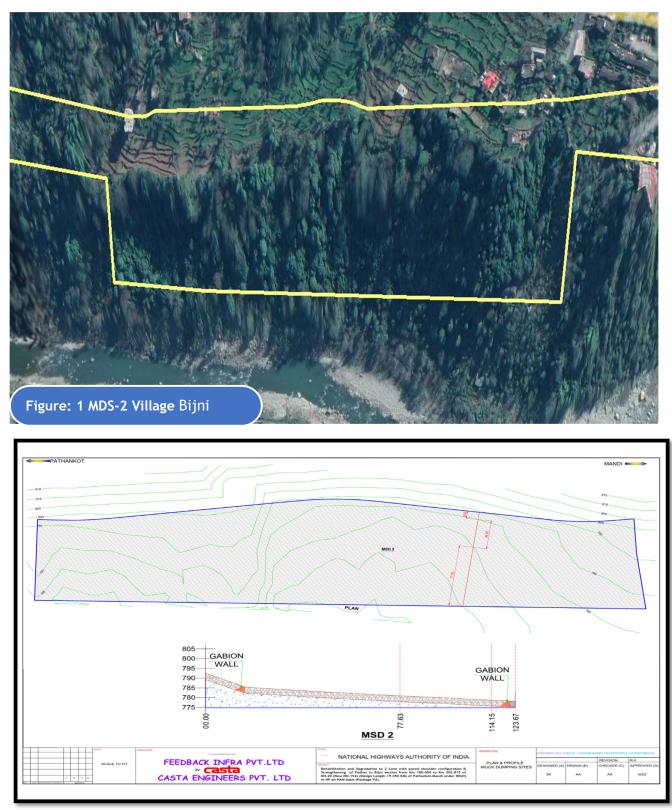
Muck Dumping Site-I





2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 202,815)

#### Muck Dumping Site-II

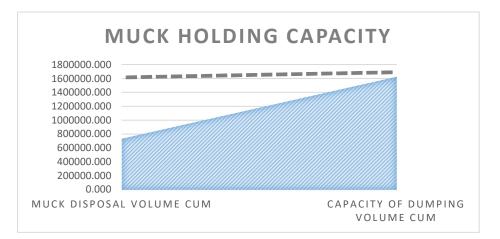


2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 201.815)

The muck holding capacity of the all muck disposal sites (including the already diverted/acquired plot) are detailed in **Table 4 below** and comparison of muck volume to be generated vis-à-vis capacity of the disposal sites are presented in info graphics in **Figure 3 below**.

S.No	Villages	Design Chainage (km)		Length	Width	Height	Area	Volume
		From	То	Length	WIGUI	rieigiit	(Sqm)	(Cu.m)
1	Matha Niyul & Tandu	175.500	175.950	450	45	21	20250	425250
2	Bijan	177.975	178.580	605	66	30	39930	1197900
	Total							1623150

Table: 4 Muck Holding Capacity of Disposal sites



#### Figure: 3 Generate Muck Volume Vis -a-Vis's capacity of Disposal sites

It can be inferred from the Figure 3 above that capacity of the disposal sites fulfils the requirement of generated muck volume. Therefore, the proposed muck disposal sites with the suggested gabion wall height will suffice the requirement of dumping of excavated muck.

### 3. Environmental Impacts of Improper Muck disposal

The dumping of rock spoil can potentially be a cause for environmental problems and land degradation. It may cause landslides if not disposed properly and be an aesthetical damage to the natural landscape. Improper muck dumping without slope protection measures results in wash away into the channels/Khad/Streams causing siltation and blockage of natural channels. The trees and undergrowth vegetation of the dumping sites are also affected due to change in land use. Further, when stacked without adequate stabilisation measures, muck moves along with runoff and creates landslides.

Sugmale

2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 202.815)

#### 4. Environmental Safeguard Measures for Muck Disposal Sites

different > Multiple gabion walls at elevation levels are proposed to retain muck within the boundary of muck disposal sites. Gabion wall of height of 5 m including 0.75 m of buffer along with standard wire gauge galvanised wire (SWG GI) having 10 cm x 10 cm mesh and dimension 1.15 m x1.15 m x1.15 m in multi tiers with 0.5 m wide offset to be laid concurrently with the dumping of muck for side protection. Muck dumping plan of all two (02) proposed disposal sites along with elevation profile and desired Placement of gabion wall is provided in drawings at the end of this report.



Use of Geo- mats for Slope Stabilization

After preparing the gabion wall at muck disposal site, the muck brought in dumpers shall be dumped and manually spread behind the wall in such a manner that rock mass is properly stacked behind the wall with minimum of voids.



Rehabilitation of slopes using bio-engineering techniques

Regular inspection by environmental expert of concessionaife and Independent engineer (IE) shall be made to ensure complete avoidance of spilling of muck outside the boundary, especially into channels/Khad/Streams.

2-Lane+PS of Pkg-VA Pathankot to Mandi section NH-154 (KM-180.00 to Km 202.8 5)

Bioengineering is the technique of utilizing vegetation in addressing geotechnical problems. Slope of muck disposal sites after completion of dumping to a particular site should be stabilized by stone pitching and turfing with geo mats (Coir Geotextile) & indigenous species of soil stabilizing legumes like Vetiver grasses. Natural geotextiles degrade quicker than man-made counterpart, but facilitate growth of vegetation quicker and better to due to this inherent characteristics. Hydro-seeder sprays are to be used for restoring soil fertility of the slope walls for quicker result, as necessary.

liker Sminvalen.

# No.CALA-NH-20(Revenue)/2023- 245

From

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Competent Authority Land Acquisition-cum- SDM Sadar NH-20, Mandi H.P.

То

The Project Director, NHAI, PIU, Palampur Ist & 2<sup>nd</sup> Floor, Dayal Ji Niwas Opposite Govt. Primary School, Chimbalhar,Palampur-176061.

Dated Mandi, the *I*th August, 2023.

Subject:

Diversion of forest land for the diversion 19.5896 Ha. Forest land for
Rehabilitation and upgradation to Two Lane with paved shoulder configuration
And strengthening of Padhar to Bijani (package-VA) from Km. 180.000 to KM.
202.815 (Design Length 19.050 KM) of NH-20 (Ne 154) of Pathankot-Mandi in
The state of H.P. Supply of detail/area of Forest land falling under EROW-Reg.

Sir,

Reference your office letter No.NHAI/PIU/PALM/HP/11016/12/Forest-

VA/2023-24/3330 dated 08-08-2023 on the subject cited above.

. . . . .

The requisite information in respect of Sadar Sub-Division-Mandi (Bhatog to
 Bijan) is sent herewith for further necessary action at your end please.

Encl. 1

Yours faithfully, Competent Authority, Land Acquisition-cum- SDO(C)

Sadar NH-20, Mandi H.P.

1.	Magal	<u>273/1</u> 681/1	0.1289 0.0212	-do- -do-	-do- -do-
			0.1400	-do-	-do-
	Total	Kita-4	0.2959		da
4.		325/1	0.1465	-do-	-do-
3.	-do-	242/2	0.1034	-do-	-do-
2.	-do-	242/1	0.0225	-do-	-do-
1.	Mehad	248/1	0.0235	-do-	-do-
	Total	Kita-8	0.7653		da
8.	-do-	205	0.1477	-do-	-do-
7.	-do-	223/4	0.0425	-do-	-do-
6.	-do-	223/3	0.2891	-do-	-do-
5.	-do-	223/2	0.1113	-do-	-do-
4.	-do-	223/1	0.0714	-do-	-00-
3.	-do-	219/2	0.0129	-do-	-do-
2.	-do-	219/1	0.0265	-do-	-do-
	n		0.0275		1
1.	Dhakalwaha	211/1	0.0639	-do-	-do-
	Total-	Kita-6	1.3909		
6.	-do-	215/1	0.3118	-do-	-do-
5.	-do-	222/3	0.1521	-do-	-do-
4.	-do-	222/2	0.0364	-do-	-do-
3.	-do-	222/1	0.6923	-do-	-do-
2.	-do-	254	0.1297	-do-	-do-
1.	Dwardu	256	0.0686	-do-	-do-
	Total	Kita-6	0.9328		
6.	-do-	34	0.0718	-do-	-do-
5.	-do-	125/3	0.1570	-do-	-do-
4.	-do-	125/2	0.2478	-do-	-do-
3.	-do-	125/1	0.1827	-do-	-do-
2.	-do-	315/1	0.0999	-do-	-do-
1.	Bhatog	340	0.1736	Mumkin Sadak	Govt./MOR TH
No.	Muhal	240	Hect.	ion of land Gair	/possession Central
Sr.	Name of	Khasra No.	Area in	Classificat	Ownership

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Full Title of Project :- Diversion of 19.5896 Ha. Forest land for Rehabilitation and Upgradation to Two lane with paved shoulder configuration & Strengthening of Padhar to Bijni (Package-VA) from Km 180.00 to Km 202.815 (Design Length 19.050 km) of NH-20 (New NH-154) of Pathankot-Mandi Section in the state of Himachal Pradesh.

#### **CHECK LIST NO.31**

	COMPONENT	WISE BREAKUP OF THE FOREST	LAND AN	ID NON FO	REST LAND	
S.No.	Village/Khasra No.	Length & Width of F	Road		Forest land	Non- Forest land
1	Saned	140.8 x 30 = 4224 Sqm =	0.4224	Hect.	0.4224	
	607/1, 671/539, 674/548/1, 591, 589/1, 587/1, 585/1, 584/1, 631/1	301.53 x 30 = 9046 Sqm =	0.9046	Hect.		0.9046
2	Narla	513.6 x 30 = 15408 Sqm =	1.5408	Hect.	1.5408	
	$\begin{array}{r} 636/2/1,\\ 646/608/204/1,205/1,\\ 634/591/511/1,\\ 634/591/511/2,\\ 634/591/511/2,\\ 634/591/511/3,1/1,\\ 573/6/1,610/204/1,\\ 610/204//2,\\ 619/219/1,13/1,\\ 203/1,555/202/1,\\ 221/1,696/227/1,\\ 696/227/2,438/1,\\ 675/632/449/1,\\ 675/632/449/1,\\ 675/632/449/2,675/63\\ 2/449/3,540/1,541/1\end{array}$	879.43 x 30 = 26383 Sqm =	2.6383	Hect.		2.6383
3	Singh 605/42/1, 137/1, 149/1, 161/1, 170/1, 205/1, 217/1306/1, 27/1, 143/1,	76.43 x 30 = 2293 Sqm = 882.06 x 30 = 26462 Sqm =	0.2293 2.6462	Hect. Hect.	0.2293	2.6462
	Kunnu	87.86 x 30 = 2636 Sqm =	0.2636	Hect.	0.2636	
4	449/163/1, 451/179/1, 180/1, 314/1, 323/1, 255/1, 296/1, 332/1, 169/1, 169/2	416.33 x 30 = 12490 Sqm =	1.2490	Hect.		1.2490
5	Sahal	39.73 x 30 = 1192 Sqm =	0.1192	Hect.	0.1192	
	14/1, 27/1, 71/1, 127/1, 133/1, 228/1, 228/1, 245/1, 439/1, 525/1, 114/1	785.86 x 30 = 23576 Sqm =	2.3576	Hect.		2.3576
6	Pipali	142.46 x 30 = 4274 Sqm =	0.4274	Hect.	0.4274	

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	1/, 144/1, 746/242/1, 243/1, 247/1, 189/1, 238/1, 240, 444/1,	1089.13 x 30 = 32674 Sqm =	3.2674	Hect.		3.2674
	447/1, 311/1, 440/1, 441/1, 442/1, 582/1, 583/1, 682/1, 690/1					
7	Pali	47.36 x 30 = 1421 Sqm =	0.1421	Hect.	0.1421	
	1/1, 27/1, 677/597/28/1, 34/1, 46/1, 389/1, 401/1, 395/1, 381/1, 619/603/494/1	674.06 x 30 = 20222 Sqm =	2.0222	Hect.		2.0222
8	Malog	194.8 x 30 = 5844 Sqm =	0.5844	Hect.	0.5844	
	11/1, 111/1, 114/1, 218/1, 220/1, 228, 368/254/1,368/254/2, 67/1,	249 x 30 = 7470 Sqm =	0.7470	Hect.		0.7470
9	Maseran	346.96 x 30 = 10409 Sqm =	1.0409	Hect.	1.0409	
	551/1, 781/1, 743/1, 541/1, 917/541/1/1, 917/541/1/2, 822/549/1, 822/549/2, 552/1, 795/1, 766/1, 769/1, 771/1, 773/2, 892/734/1, 755/1, 844/722/1, 744/1,	756.1 x 30 = 22683 Sqm =	2.2683	Hect.		2.2683
	724/1,					
10	Bhatog	180.36 x 30 = 5411 Sqm =	0.5411	Hect.	0.5411	
	342/1, 355/1, 498/339/1, 338/1, 327/1, 328, 480/473/1, 319/1,100/1, 1/1, 199/1, 55/1, 54/1, 329/1	553.8 x 30 = 16614 Sqm =	1.6614	Hect.		1.6614
11	Dwardu	127.6 x 30 = 3828 Sqm =	0.3828	Hect.	0.3828	
	329/1, 330/1, 32/1, 323/1, 241/1, 243/1, 227/1, 230/1, 346, 382/216/1,382/216/2, 382/216/3, 207/1, 369/201, 371/88/1, 366/86, 367/86,	365.8 x 30 = 10974 Sqm =	1.0974	Hect.		1.0974
12	Pakhri	156.5 x 30 = 4695 Sqm =	0.4695	Hect.	0.4695	
	283/135/1,281/135/1, 282/135/1,285/202/1, 232/1	209.9 x 30 = 6297 Sqm =	0.6297	Hect.		0.6297
13	Dhaklwan	136.66 x 30 = 4100 Sqm =	0.4100	Hect.	0.4100	
	208/1, 222/1, 328/97/2, 38/97/2, 329/97/1, 329/97/2	278.96 x 30 = 8369 Sqm =	0.8369	Hect.		0.8369
14	Mehad	223.4 x 30 = 6702 Sqm =	0.6702	Hect.	0.6702	
			1	1.5	-	

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	1/1, 4/1, 4/2, 4/3, 710/249/1, 710/249/2, 255, 256/1, 287/1, 301195, 193/1, 154/1, 337/1, 438/1, 442/1, 454/1, 708/477/1, 653/480/1, 561/1,	2006.9 x 30 = 60207 Sqm =	6.0207	Hect.		6.0207
15	Tandu 402/110/1, 448/111/1, 448/111/2, 425/280/1, 321/1, 450/357/1, 343/1, 343/2, 344, 410/356/1, 214, 222 ,212, 452/360/1, 208/1, 228/1, 234/1, 102/2	631.53 x 30 = 18946 Sqm = 958.95 x 45 = 43153 Sqm =	1.8946 4.3153	Hect. Hect.	1.8946	4.3153
16	Matha Neul 230/1,514/225/1, 214/1, 206/1, 208, 204/1, 204/2, 204/3, 196/1, 248/1, 260/1, 191/1, 544/258/1	247.1305 x 30.015 = 7418 Sqm = 456.35 x 45 = 20536 Sqm =	0.7418 2.0536	Hect. Hect.	0.7418	2.0536
17	Maigal 830/253/1, 895/292/1, 303/1, 892/836/1, 324/1, 847/331/1, 844/822/1, 846/331/1, 332/1, 860/333/1, 861/333/1, 682/1296/1	529.64 x 31.5 = 16684 Sqm = 647.55 x 45 = 29140 Sqm =	1.6684 2.9140	Hect. Hect.	1.6684	2.9140
18	Bijan 1, 7, 1091/8/1, 1091/8/2, 1091/8/3, 273, 1071/550, 1095/501, 1114/498, 78	327.33 x 45 = 14730 Sqm = 1922.622 x 45 = 86518 Sqm =	1.4730 8.6518	Hect. Hect.	1.4730	8.6518
		Total :	59.3029	Hect.	13.0214	46.2814
	village	Area for Dumping Site	Area		Forest	Non Forest
1	Matha Neul	211.03 x 69 = 14561 Sqm =	1.4561	Hect.	1.4561	
		28.97 x 69 = 1999 Sqm =	0.1999	Hect.		0.1999
	Tandu	13.37 x 69 = 923 Sqm =	0.0923	Hect.	0.0923	0.0755
	Diai	40.1145 x 69 = 2768 Sqm =	0.2768	Hect.	0.0540	0.2768
2	Bijni	541.183 x 49 = 26518 Sqm = 273.71 x 49 = 13412 Sqm =	2.6518 1.3412	Hect.	2.6518	1.3412
		273.71 x 49 = 13412 Sqm = Total :	1.3412 6.018	Hect.	4.2002	1.3412 1.8177
		Total .		neci.	4.2002	1.0177
			-Vi	hai S	montall	m
			-0	The		

	village	Way Side Ameneties	Area		Forest	Non Forest
1	Dwardu	200 x 150 = 30000 Sqm	3.0000	Hect.	0.00	3.00
		Total :	3.0000	Hect.		3.00
	At R/D	Minor/ Major Bridges(Forest Area	Area			
1	163/117	80 x 16 = 1280 Sqm =		Hect.		
1		•	0.1280			
	164/149 16/861	62 x 16 = 992 Sqm =	0.0992	Hect.		
3		90 x 16 = 1440 Sqm = 90 x 16 = 1440 Sqm =	0.1440	Hect.		_
4	169/100	•	0.1440	Hect.		_
5	176/325	150 x 16 = 2400 Sqm =	0.2400	Hect.		
6	160/350	50 x 16 = 800 Sqm =	0.0800	Hect.		
7	160/425	25 x 16 = 400 Sqm =	0.0400	Hect.		
8	161/037	36 x 16 = 576 Sqm =	0.0576	Hect.		
9	161/325	25 x 16 = 400 Sqm =	0.0400	Hect.		
10	161/816	25 x 16 = 400 Sqm =	0.0400	Hect.		
11	162/795	25 x 16 = 400 Sqm =	0.0400	Hect.		
12	165/345	42 x 16 = 672 Sqm =	0.0672	Hect.		
13	165/621	25 x 16 = 400 Sqm =	0.0400	Hect.		
14	167/290	36 x 16 = 576 Sqm =	0.0576	Hect.		
15	168/263	10 x 16 = 160 Sqm =	0.0160	Hect.		
16	168/761	36 x 16 = 576 Sqm =	0.0576	Hect.		
17	168/875	30 x 16 = 480 Sqm =	0.0480	Hect.		
18	170/265	25 x 16 = 400 Sqm =	0.0400	Hect.		
19	174/600	36 x 16 = 576 Sqm =	0.0576	Hect.		
20	175/975	25 x 16 = 400 Sqm =	0.0400	Hect.		
21	177/175	30 x 16 = 480 Sqm =	0.0480	Hect.		
22	177/550	15 x 16 = 240 Sqm =	0.0240	Hect.		
23	178/350	36 x 16 = 576 Sqm =	0.0576	Hect.		
24	179/00	20 x 25 = 500 Sqm =	0.0500	Hect.		
		Total :	1.6564	Hect.		
		Reconstruction/Construction of Ex	kisting and	I Additiona	ll Culverts(Fo	rest Land)
1		593 x 12 = 7116 Sqm =	0.7116	Hect.		
		Total :	0.7116	Hect.		
		Grand Total(Non Forest Area)	51.1207			
		Grand Total( Forest Area)	19.5896			
		G-Total ( Forest + Non-Forest	70.7103	Hect.		
		Land):				

## The sections of project highway passing through Existing Road( Area not included in Area of Diversion)

S.No	Exist	ing Chainage (KM)	LENGTH	VILLAGE ,
5.100	FROM	то	(M)	
				Uppy anywaller.
				$\mathbf{V} = \mathbf{V}$

1	180+100	180+300	200	NARLA
2	183+250	183+650	400	KUNNU
3	184+375	184+900	525	SAHAL
4	187+350	188+390	1040	PALI
5	189+550	189+910	360	DRANG
6	193+050	193+450	450	PAKHRI
7	194+250	194+900	650	MEHAR
		TOTAL LENGTH (M)	3625	

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## OFFICE OF THE CALA-CUM-SUB-DIVISIONAL MAGISTRATE PADHAR DISTRICT MANDI, H.P.

## NO.SDO(C)/PDR/NHAI/2021/- 1062

DATED:-21.08.2023

To

The Project Director (NHAI), PIU office 1<sup>st</sup> and 2<sup>nd</sup> floor, DiyalJiNiwas, Opposite Govt. Primary School, ChimbalharTeh. Palampur, Distt.Kangra (H.P) 176061.

Sub.:-

R/Sir,

Two lanning of NH-154 from Km 180.00 to 190.00 section Pathankot to Mandi Package V-A regarding submission of list of lond aquired from existing NH-154 for the construction of two lone NH 154.

Kindly find enclosed herewith the above mentionalist of land acquired from existing NH-154 from Muhal Saned to Maseran under this Sub-Division for the construction/upgradation of NH-154 after incorporating all the Khasra No. and area of land which are present in the two lanning alignment of NH-154.

This is submitted for your information and further necessary action please.

With Regards.

Encl:-10 No.

CALA-Cum-S.D.M. (NHAI), Sub-Division Padhar, Distt. Mandi H.P.

Sr.No.	Name of Muhal	Total Khasra Number	Acquired Land Area		Remarks
		1	In Bighas	In Hec.	
1.	Saned/533	2	3-04-14	0.2618	
2.	Narla/584	11	8-08-12	0.6822	
3.	Singh/583	7	8-02-15	0.6585	A CARACTER -
4.	Kunnu/582	4	4-03-00	0.3357	
5.	Sahal/588	5	8-15-04	0.7088	
6.	Pipali/590	9	7-11-05	0.6119	
7.	Pali/591	6	9-09-09	0.7666	
8.	Malog/601	6	5-06-00	0.4288	
9.	Maseran/602	10	11-05-05	0.9114	
	Total	60	66-06-04	5.3657	

## ABSTRACT

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Sr.No.	Name of Muhal	Khasra Number	Acquired Land Area		Remarks
	Saned/533		In Bighas	In Hec.	
1.		502/2	1-01-06	0.0862	
2.		538/2	2-03-08	0.1756	
	Total		3-4-14	0.2618	

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Sr.No.	Name of Muhal	Khasra - Number	Acquired L	Acquired Land Area		
	Narla/584	Norsan	In Bighas	In Hec.		
1.		5/2	0-10-12	0.0429		
2.		5/3	2-3-15	0.1770		
3.		220/2	0-15-4	0.0615		
4.		220/3	0-9-3	0.0370		
5.		455/1	1-11-5	0.1265		
6.		455/4	0-11-7	0.0459		
7.		455/6	0-8-2	0.0328		
8.		455/8	0-14-2	0.0571		
9		455/10	0-7-3	0.0289		
10.		455/12	0-7-13	0.0309		
11.		455/14	0-10-6	0.0417		
	Total		8-8-12	0.6822		

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Sr.No.	Name of Muhal	Khasra Number	Acquired Land Area		Remarks
1	Singh/583	1/1/4	In Bighas	In Hec.	
1.		20/2	0-12-07	0.0500	
2		20/4	0-11-06	0.0457	
3		207/2	1-09-02	0.1177	
4		207/4	1-08-08	0.1149	
5		207/6	3-04-06	0.2602	
6		305/2	0-10-10	0.0425	
7		313/2	0-06-16	0.0275	
	Total		8-02-15	0.6585	States Shares

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Sr.No.	Name of Muhal	Khasra Number	Acquired L	and Area	Remarks
	Kunnu/582		In Bighas	In Hec.	
1.	Salastists	171/1	0-07-10	0.0303	
2.		297/1	0-11-12	0.0469	
3.		297/3	2-01-11	0.1681	
4.		297/5	1-02-07	0.0904	
			4-03-00	0.3357	

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Sr.No.	Name of Muhal	Khasra Number	Acquired Land Area		Remarks
	Sahal/588		In Bighas	In Hec.	
1.		113/1	5-14-06	0.4625	
2.		234/1	0-4-13	0.0188	
3.		417/1	1-4-11	0.0993	
4.		409/1	0-0-10	0.0020	
5.		378/1	1-11-04	0.1262	
	Total		8-15-4	0.7088	

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Sr.No.	Name of Muhal	Khasra Number	Acquired Land Area		Remarks
	Pipali/590	1082	In Bighas	In Hec.	
1.		37/2	2-5-19	0.1859	
2.		241/2	0.11-0	0.0445	
3.		241/3	0-3-18	0.0157	
4.		443/1	0-15-10	0.0627	
5.		572/2	0-17-5	0.0698	
6.		572/4	0-7-17	0.0318	
7.		572/6	0-13-10	0.546	
8.		678/2	1-3-10	0.0951	
9		679	0-12-16	0.0518	
	Total		7-11-5	0.6119	100

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Sr.No.	Name of Muhal Pali/591	Khasra Number	Acquired L	Remarks	
			In Bighas	In Hec.	
1.		108/2	0-9-17	0.0399	
2.		107/3	5-8-09	0.4388	
3.		237/1	0-6-13	0.0269	
4.		396/3	2-0-08	0.1635	
5.		483/1	0-0-03	0.0006	
6.		483/3	1-3-19	0.0969	
	Total		9-9-9	0.7666	

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Sr.No.	Name of Muhal Malog/601	Khasra Number	Acquired L	Remarks	
			In Bighas	In Hec.	
1.		68/1	0-01-00	0.0040	
2.		68/3	0-15-00	0.0607	
3.		70/1	0-01-00	0.0040	
4.		254/1/2	0-06-11	0.0265	
5.		254/1/4	0-07-06	0.0295	
6.		254/1/6	3-15-03	0.3041	
1.	Total	774/2	5-06-00	0.4288	

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Sr.No.	Name of Muhal Maseran/602	Khasra Number	Acquired L	Remarks	
			In Bighas	In Hec.	
1.		550/2 -	0-09-12	0.0388	
2.		550/4	0-10-17	0.0439	
3.	Charles Ca	550/6	01-04-02	0.0975	
4.	Dist: Kanwas	550/8	2-17-06	0.2319	
5.		782/1	0-07-16	0.0315	
6.		782/3	0-14-00	0.0567	
7.	and the second second	774/2	0-17-01	0.0690	ind the second
8.		735/2	0-16-03	0.0653	
9.		735/4	1-14-16	0.1408	
10	in the second second	735/6	1-13-12	0.1360	f land acquired
and an and a second	Total		11-5-5	0.9114	Realization and the

「「「 3 CALA - cum - SDM 4.18 Sub Division Padhar Qistt. Mandi (H.P.)-175012 LOOPER TO COMP WE 7000



DIVERSION OF 19.5896 HA. FOREST LAND FOR REHABILITATION AND UPGRADATION TO TWO LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING OF PADHAR TO BIJNI (PACKAGE-VA) FROM KM 180.00 TO KM 202.815 (DESIGN LENGTH 19.050 KM) OF NH-20 (NEW NH-154) OF PATHANKOT(NEW NH-154) OF PATHANKOT-MANDI SECTION IN THE STATE OF HIMACHAL PRADESH.

#### RECLAMATION PLAN FOR MUCK DUMPING

# Name Of Work:- DIVERSION OF 19.5896 HA. FOREST LAND FOR REHABILITATION AND UPGRADATION TO TWO LANE WITH PAVED SHOULDER CONFIGURATION & STRENGTHENING

After leveling, dumping site will be rehabilitated by planting OBL plants. The reclamation plan for the dumping sites is

#### prepared as under :-

Year	Area in Hect.		Rate/ Hect.	Total Amount	
0th year (Plantation Fencing)	4.2002	Hect.	60150.00	252642.00	
1st year Maint.	4.2002	Hect.	6350.00	26671.00	
2nd year Maint.	4.2002	Hect.	4300.00	18061.00	
3rd year Maint.	4.2002	Hect.	2250.00	9450.00	
4th year Maint.	4.2002	Hect.	2250.00	9450.00	
5th year Maint.	4.2002	Hect.	2250.00	9450.00	
6th year Maint.	4.2002	Hect.	2250.00	9450.00	
7th year Maint.	4.2002	Hect.	2250.00	9450.00	
8th year Maint.	4.2002	Hect.	2250.00	9450.00	
9th year Maint.	4.2002	Hect.	2250.00	9450.00	
10th year Maint.	4.2002	Hect.	2250.00	9450.00	
	Total C.A. Scheme			372974.00	
	Departmental charges @17.5%			65270.00	
	Contingency Charges @5%			18649.00	
	Total			456893.00	
	GST for the cost of F/Post 1491 @18%			13609.00	
	NSY cost for plants 91 @23/-			106260.00	
	Grand Total :-			576762.00	

#### **Muck Dumping Certificate :-**

It is also certified that the said area will be developed by user ac

malen. ans as Surjewala Project Director NHAI

PIU- Palmpur