CHECK FIZT SERIAL NUMBER: - 10

JUSTIFICATION FOR LOCATING THE PROJECT IN THE FOREST AREA ASSAULT OF THE PROJECT IN THE PROJECT

Diversion of **05.3680** ha. of forest land of **WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-NINUS-HATKOTI ROAD, PORTION SUAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, HP. The existing road has to widened from NH-707 in the state of site the proposed alignment has accordingly been located in forest stea because it is not possible go on valley side vhich required huge cutting/filling In this section Geometries of the toad has been improved. In the above facts the alignment has been proposed in minimum forest land e.g. 05.3680 ha.** Required for diversion for looking to the traffic requirement and improvement of Geometry of curves this section has been adopted to avoid accidents and provide better transportation to the road users.

Wedniu, Forest Division Rolliu

TOUSINISIA T

Date Janes

-: La bangiersigned by:-

MUCK MANAGEMENT PLAN

WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-MINUS-HATKOTI ROAD, PORTION SNAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, H.P.

	6		(iii)	3	(i)	'n		4.	ω.	2.	1.	Sr.
Cum	Net material/Muck to dumped in dumping site (B-C) in	Total :- (i)+(ii)+(iii)	Less for Material/Muck used in filling behind R/wall B/wall and filling in plinth work. @30%	Less for material/Muck required for construction of the proposed site for the construction of R /wall B/wall etc @45% of (B)	Deduction of material required for the construction of dry masonry wall/Edge wall @ 25% of (B)	Material /Muck to be used in Project:-	Total (sr.3+4)	Quantity available on site with swell factor @ 20% of (A)	Net Balance Quantity of Debris/Muck (1-2)	Deduction for useful stone as required under the clause of agreement to be executed by the Contractor and Executive Engineer of Project.	Total Quantity of Muck being produced	Description
Cum		99380.20	39025.00	73000.00	37306.8		248712	79421.95	169290.28	29264.60	198554.88	Quantity
		Cum(C)					Cum(B)		Cum (A)		Cum	

Total Muck to be Dumped in project site = 99380.20Cum



No.SML-SR-57/2020- UU Office of the Deputy Commissioner, Shimla, District Shimla, H.P.

Dated, Shimla-1 the

th Judy 2021.

NON AVAILABILITY OF NON FOREST LAND CERTIFICATE

Certified that no alternative suitable Non Forest land is available for construction of proposed road for the widening of NH 707 portin Snail to Hatkoti, Tehsil Jubbal, District Shimla. The diversion of forest land area measuring 05-36-80 Hectares situated in Mohal Mugra Nadhal, Arakshit Ban Batad, Kuddu and Ching Darmana, Tehsil Jubbal, District Shimla, Himachal Pradesh is essential which cannot be avoided. The detail of forest land is as under:-

Sr. No.	Name of Tehsil/ Sub- Tehsil	Name of Mauja/ Up- Mohal	Khasra No.	Area in Hectares	Classification of Land
1.	Jubbal	Mugra Nadhal	9/1	02-39-42	Charagah Darakhtan
			9/2	00-53-26	Charagah Darakhtan
	- 2		Kita-2	02-92-68	
2.		Arakshit Jungal	15/1	00-54-95	Gair Mumkin Arakshit Jungal
-		Batad	14	01-61-03	Gair Mumkin Arakshit Jungal
			16/1	00-00-94	Gair Mumkin Arakshit Jungal
			Kita-3	02-16-92	
_		Kuddu	51/1	00-04-03	Charagah Darakhtan
3.			196/1	00-02-25	Charagah Darakhtan
		1	197/1	00-02-88	Gair Mumkin Nalla
			259/1	00-06-04	Charagah Darakhtan
			Kita-4	00-15-20	
4.		Ching Darmana	1258/1	00-12-00	
7.			Kita-1	00-12-00	
-		Grand Total	Kita-10	05-36-80	

Deputy Commissioner, Shimla.

POPULATION CERTIFICATE

It is certified that this FCA case of **C/o WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-MINUS-HATKOTI ROAD, PORTION SNAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, H.P.** This National Highway (NH-707) will benefit people of all Himachal Pradesh as well as Indian Tourism this project is not a village project but it is National Highway Project (NH-707).

Executive Enginee Theog Division HP PWD, Theog

UNDERTAKING TO PROVIDE FOREST RIGHT ACT.(FRA) CERTIFICATE

I Executive Engineer, NH-Division HPPWD Theog, Distt. Shimla do hereby undertake to provide the **FRA Certificate** after getting Stage-I approval as the process of obtaining FRA certificate is under process.

Executive Engineer

NEX ONLY OF THE PROPERTY O

AUTHORITY LETTER

I Naresh Sharma, Engineer-in-Chief, HP.PWD, being competent authority, do hereby authorize all Executive Engineers, HPPWD Divisions to make application on behalf of the User Agency for seeking prior approval of Central Government under Section-2 of the Forest Conservation Act- 1980 for Diversion of fresh forest area.

AUTHORITY LETT Engineer-in-Chief, HP-PWD, Shimla-2

Certificate for Soil Erosion Control

Certified that the following measures has been taken in the detailed Project Report (DPR) for the "Widening & Strengthening to Double Lane of Poanta-Rajban-Shillai-Minus-Hatkoti Road, Portion Snail-Hatkoti from RD 149/00 to 161/715 NH-72B(New No. 707)" for the protection of vulnerable to erosion from Hillside.

- 1. Total length of Breast Wall = 2500 mtrs.
- 2. Construction of Hillside Paved Shoulder with PCC M20 on the entire length of the road.
- 3. Guni ting concrete surface with cement mortar at various land slide prone areas.

Executive Engineer Executive Engineer HPPWD
Theog, Distt. Shimla.

CHECK LIST:-11

CERTIFICATE FOR MINIMUM USE OF FOREST LAND

This is to certify that the forest area involved in the proposal for 05.3680 ha. of forest Land for WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-MINUS-HATKOTI ROAD, PORTION SNAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, H.P. . Is unavoidable and barest minimum forest area i.e. 05.3680 ha.

Area which is proposed for diversion.

Date. John 2007

Place The grant of the gran

Countersigned by:-

Executive Engineer (Br. D.P. Srigh)
NHLDivision, HPPWD.,
Theog

Divisional Forest Officer

Rohru Forest Division Röhru

CHECK LIST:-12

UNDERTAKING FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION

I Executive Engineer, NH Division, HP.PWD, Theog. here by, undertake to pay the entire amount for compensatory Afforestation in lieu of the forest area i.e. 05.3680 ha. of forest Land diverted for WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-MINUS-HATKOTI ROAD, PORTION SNAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, H.P.

As per prevailing wage rates at the time of plantation as and when demanded by forest department.

Date Jol 11 2021
Place The

Countersigned by:-

Executive Engineer,
NH Division, HP PWD.,

Theogsion HPPWD.,

Theog.

Divisional Forest Officer
Division Forest Division Rohru
Pontu Forest Division Rohru

CHECK LIST:-13

UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

I Executive Engineer, NH Division, HP.PWD, Theog applied for diversion of 05.3680 ha. of forest area for the purpose forest Land for WIDENING & STRENGTHENING TO DOUBLE LANE OF POANTA-RAJBAN-SHILAI-MINUS-HATKOTI ROAD, PORTION SNAIL TO HATKOTI FROM RD 149/00 TO 161/715 NH-707 (OLD NH-72B), DISTRICT SHIMLA, H.P.

I, here by undertake to pay the net present value (NPV) of the above forest land as and when demanded by forest department.

Date 10 11 2021
Place Theory

Countersigned by:-

Executive Engineer, (6. p.p. S...h)

NH Division, HP PWD.,

Theog

Divisional Forest Officer
RohruhForest Division Rohru
Rohru

I hereby undertake to pay the Additional amount of net present value (NPV) of the above forest land as and when demanded by forest department.

Date Place

-: Na bengiera by:-

Executive Engineer,

NH Division, HP.PWD,

Theog

COST BENEFIT ANALYSIS

Estimation of Cost of Forest Diversion

Sr. No.	Parameters	Value expressed to Monetary terms and in Detail	Remarks
1.	Ecosystem services losses due to proposed forest diversion	Rs. 37,52,232 /-	Economic value of loss of eco-system services due to diversion of forest shall be the net present value (NPV) of the forest land being diverted as prescribed by the Central Government (MoEF & CC).
2.	Loss of animal husbandry productivity, including loss of fodder	Rs. 3,75,223 /-	To be quantified and expressed in monetary terms or 10% of NPV applicable whichever is maximum
3.	Cost of human resettlement	Since no residential village/ area is getting affected, there will be no cost of human resettlement.	To be quantified and expressed in monetary terms as per approved R&R plan
4.	Loss of public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, which would require forest land if these facilities were diverted due to the project.	Since no public facilities and administrative infrastructure (Roads, building, schools, dispensaries, electric lines, railways, etc.) on forest land, being diverted due to the project, there will be no such loss.	To be quantified and expressed in monetary terms on actual cost basis at the time of diversion
5.	Possession value of forest land diverted	30% of environmental costs (NPV) due to loss of forests i.e. Rs. 11,25,670 /-	30% of environmental costs (NPV) due to loss of forests or circle rate of adjoining area in the district should be added as a cost component as possessor value of forest land whichever is maximum
6.	Cost of suffering to outsides	Nil	The social cost of rehabilitation of oustees (in addition to the cost likely to be incurred in providing residence, occupation and social services as per R&R plan) be worked out as 1.5 times of what oustees should have earned in two years had he not been shifted.
7.	Habitat Fragmentation Cost	Rs.18,76,116 /-	While the relationship between fragmentation and forest goods and services in complex, for the sake of

			simplicity the cost due to fragmentation has been pegged at 50% of NPV applicable as a thumb rule.
8.	Compensatory afforestation and soil & moisture conservation cost	Rs. 7,67,843 /-	The actual cost of compensatory afforestation and soil & moisture conservation and its maintenance in future at present discounted value

Executive Enginee Theog Division HP PWD, Theog

Table: C
Estimating Benefits of Forest Diversion in Cost Benefit Analysis

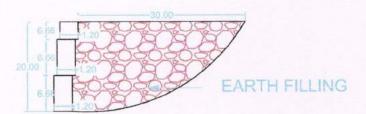
Sr. No.	Parameters	Value expressed in monetary terms	Remarks
1.	Increase in Productively attribute to the specific project	Growth of local business by almost Rs. 58,00,00,000.00 (Fifty Eight Crore Only) (Approx.)	To be quantified & expressed in monetary terms
2.	Benefits to economy due to the specific project.	The economic benefit in monetary terms due to the activities attributed to the specific project will be Rs. 50, 00, 00,000.00 Lakhs (Fifty Crore Only). (Approx.)	The incremental economic benefit in monetary terms due to the activities attributed to the specific project.
3.	No. of population benefited due to specific project.	About 42857 man days job will be generated by the construction of the project, which will be paid with average salary of Rs. 475/- per day. That means around Rs. 203.57 Lakhs will be paid as salaries to the workers.	As per the Detailed Project Report
4.	Economic benefits due to of direct and indirect employment due to the project.	Directly:- 1000 Indirectly:- 42857	As per the Detailed Project Report
5.	Economic benefits due to Compensatory Afforestation	Economic benefits due to Compensatory Afforestation includes Benefits due to animal husbandry productivity including fodder and fuel wood, Ecosystem services Benefits due to proposed forest diversion, Possession value of forest land diverted will be Rs. 41,44,852 /-	

Executive Enginee Theog Division HP PWD, Theog

DUMPING SITE 1

30.00m	EARTH FILLING	
	67 00m	

PLAN NOT TO THE SCALE



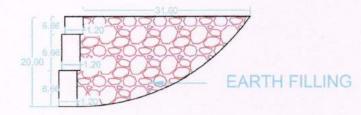
TOTAL DUMPING = L W H QTY NO.S DUMPING SITE = 67 30.00 20.00 40200.00 CUM 1

DUMPING SITE 2



PLAN NOT TO THE SCALE

Total area=1016 per dumping



TOTAL DUMPING = L W H NO.S QTY

DUMPING SITE = 97.00 30.00 20.00 1 58200.00 CUM



FULL TITLE OF THE PROJECT:

C/o The widening of NH-707 portion Snail to Hatkoti Distt. Shimla HP

Eco Sensitive Zone Certificate

Certified that the proposed road for the widening of NH-707 portion Snail to Hatkoti Distt. Shimla HP. does not fall in any Wild life Sanctuary/National Park/Eco Sensitive Zone.

Further certified that the nearest protected area to the road is Talra Wild life sanctuary. The road falls outside Talra Wild life Sanctuary at a distance of around 1700 meters from the nearest point of notified Eco-sensitive Zone of the Wild Life Sanctuary.

Divisional Forest Officer

Rohru Forest Division Rohru

Rohru Forest Division Rohru

JOINT INSPECTION REPORT

Name of Project:-C/O Proposedroad for the widening of NH-707 Portion Snail to Hatkoti, Distt.Shimla H.P The Details of Proposed land with its Khasra No. 9/1, 9/2, 15/1, 16/1, 14, 51/1, 196/1, 197/1, 1258/1, 259/1description and area of forest land is as under:-

Khasra Nos.	Mohal/Village	Area(ha.)	Legal status of area
9/1	Mugra Nadhal	2.3942	Charagaha Darkhtan
9/2	MugraNadhal	0.5326	Charagaha Darkhtan
15/1	Arakshit Ban Batad	0.5495	Gair Mumkin Arakshit jungal
14	Arakshit Ban Batad	1.6103	Gair Mumkin Arakshit jungal
16/1	Arakshit Ban Batad	0.0094	Gair Mumkin Arakshit jungal
51/1	Kuddu	0.0403	Charagaha Darkhtan
196/1	Kuddu	0.0225	Charagaha Darkhtan
197/1	Kuddu	0.0288	Gair Mumkin Nalla
1258/1	Ching Darmana	0.1200	Charagaha Darkhtan
259/1	Kuddu	0.0604	Charagaha Darkhtan
,	Total	5.3680	

The Joint Inspection/meeting of the proposed site for C/O Proposed road for the widening of NH-707 Portion Snail to Hatkoti, Distt.Shimla H.P for diversion to forest land under Forest Conservation Act 1980(FCA) was conducted on Dated 15/10/2020 In this project total 5.3680 hectares of Forest land is involved. However all effort have been made for avoidance of forest land but as per topography and site condition above forest land measuring 5.3680 hectares is involved in the above project of forest land is bare minimum and cannot be avoided.

The Joint Inspection team has examined all the alternatives with a view to avoid/minimize the use of forest land and we have come to the conclusion that the Proposed Land is the minimum requirement of the proposed project and so the diversion of this road of forest land absolutely essential. There is no natural water

resource, cremation ground, common purpose infrastructure in the proposed alignment.

There is no Non Forest land available for this proposed project.

HP.PWD. Theog