

No./RK-FCA/Addl. SJVNL/.....1206
H.P. Forest Department,

Dated Luhri, the /.....22/7/2020.....

From: - DFO, Anni

To: -CF Rampur

Subject:-


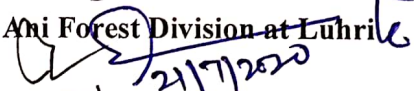
Diversion of 0.9486 hac. Of additional Forest land for Luhri HEP Stage-1(210MW), Bithal Shimla for the construction of approach road for Moin quarry site within the jurisdiction of Ani at Luhri Forest Division, Distt. Kullu, Himachal Pradesh-Submission of Hard Copy of the proposal seeking prior approval of Central Government under the Forest(Conservation) Act, 1980.

Memo,

Kindly refer to Forest Advisory Committee (FAC) meeting conducted by MoEF & CC, New Delhi on 11.06.2020 though Video conferencing on the subject cited above.

The justification for locating the road in Forest area along with alternative studies carried out for the road alignment given by the User Agency is enclosed herewith for favour of information and further necessary action please.

Encl:- AA


Divisional Forest Officer,
Ani Forest Division at Luhri

21/7 21/7/2020

एसजेवीएन लिमिटेड

SJVN Limited

(A Joint venture of Govt. of India & Govt. of Himachal Pradesh)

A 'Mini Ratna' & Schedule 'A' PSU

CIN : CIN L40101HP1988GO1008409

लूहरी हाईड्रो पावर प्रोजेक्ट-1
Luhri Hydro Power Project -1



ENVIRONMENT DEPARTMENT

No.: SJVN/LHEP-I/Env.-FCA/2020- 852

Dated: 04/07/20

To

The Divisional Forest Officer,
Forest Division Anni at Luhri,
Distt. Kullu (H.P.)

Sub: Diversion of 0.9486 ha of additional forest land for Luhri HEP Stage-I (210 MW), Bithal, Shimla for the construction of approach road for Moin quarry site within the jurisdiction of Anni at Luhri Forest Division, Distt. Kullu, Himachal Pradesh- Reply to the observation raised during FAC meeting.

Sir,

This has reference to Forest Advisory Committee (FAC) meeting conducted by MoEF&CC, New Delhi on 11/06/2020 through video conferencing during which the various points regarding subject cited proposal were discussed. During discussions, it was pointed out that three alternates are required to be examined during selection of site for the proposal but only two alternatives have been considered. In view of above, now the third possible alternative at site has also been studied by this office and the most suitable alternative has been chosen for construction of the proposed road. The site plan and the studies carried out for this purpose are enclosed (Annex-I) for further necessary action at your end please.

It is worthwhile to mention here that this project is of **National interest** to fulfil the increasing demand of electricity with tremendous opportunities for **generation of employment** as well as **development** of the local area. Hence favourable action is requested please.

With Regards,

DA: As Above.

Yours Faithfully,

(Er. R.L.Negi)
Chief General Manager/HOP,
SJVN Ltd., Luhri HEP, Bithal.

परियोजना कार्यालय: गांव विथल, डा0 शमाथला,
तहसील कुमारसैन, जिला शिमला-172030
दूरभाष : 01782-221807, Fax No.:01782-222277 www.sjvn.nic.in
कार्पोरेट मुख्यालय : शक्ति सदन शनान,
शिमला-(171006 हि0प्र0)

Project office : Village Bithal, P.O. Shamathala,
Tehsil Kumarsain, Distt. Shimla-172030
Tele :01782-221807, Fax No.:01782-222277 www.sjvn.nic.in
Corporate H.Q. : Shakti Sadan Shanan,
Shimla-171006(I.P)

अपने तथा राष्ट्र के हित में ऊर्जा की बचत करें।

SAVE ENERGY FOR BENEFIT OF SELF AND NATION

Justification for locating the Road in forest area

The construction materials for Luhri HEP stage-I shall be obtained from Moin & Koel Quarries. The road for Moin quarry is proposed for transportation of these construction materials for all major components like Dam, Toe Power House, Switchyard, diversion Tunnel etc. of the project. Earlier this road was entrusted/ supposed to be constructed by HPPWD to connect Moin Village (as conveyed by HPPWD Authorities during meetings with them at the time of identification of land for various components of the project). But later on, the alignment of the road was changed by them and the road for Moin village was constructed through alternate side. Hence, now it has become necessary for SJVN to construct/ widen the existing jeepable road.

ALTERNATIVE STUDIES CARRIED OUT FOR THE ROAD ALIGNMENT

The following alternative studies were carried out to explore the selection of the road Alignment:

- i) Widening of Existing Jeepable road from Dam/ Toe Power House at Nirath to Moin Quarry site on Right bank, Length 1700m
- ii) From Dam at Nirath to Moin Quarry site through NH-22 on Left bank & Moin village. Length 8000m.
- iii) From proposed bridge at Nirth to Moin Quarry site along right bank of River Satluj, Length 3129m.

Option No-ii) has been rejected because of longer distance and narrow bridge on River Satluj. The construction of **new 70R steel Truss Bridge** is not possible here because required **strata for construction of bridge Abutments** is not available in near vicinity. Also $\pm 1500\text{m}$ length of road from NH-22 to Quarry site is passing through Forest land and a more numbers of trees/saplings (<120 Nos.) shall be required to be felled during widening.

Option No-iii) has also been rejected because of longer length (3129m) along right bank passing through forest land, thus requiring larger area of forest land, more numbers of trees/ saplings (<150 Nos.).

Hence the first option from Dam/ toe Power House at Nirath to Moin Quarry site on Right bank having 26 trees & 73 saplings **has been considered** for widening/construction of approach road to Moin Quarry site and the land has been identified accordingly. The map showing three numbers of alternatives examined for the construction of the approach road is attached herewith.



Enumeration list of trees in main quarry road of Luhri Hydro Electric Project Stage-I
in UPF Nither C-84, Moin Beat , Moin Block, Nither Forest Range, Forest Division Anni
at Luhri (Alternate-I) detail as under -

Name of Forest	Forest wise Sr. no.	Khasra No.	Spp.	Dia	Class	Remarks
UPF Nither C-84	1		Shisham	34-35	III	Green Standing
	2		Shisham	14-15	V	-do-
	3		Shisham	20-21	IV	-do-
	4		Shisham	23-24	IV	-do-
	5		Shisham	19-20	V	-do-
	6		Shisham	27-28	IV	-do-
	7		Shisham	24-25	IV	-do-
	8		Shisham	12-13	V	-do-
	9		Shisham	12-13	V	-do-
	10		Shisham	22-23	IV	-do-
	11		Shisham	15-16	V	-do-
	12		Shisham	14-15	V	-do-
	13		Shisham	13-14	V	-do-
	14		Shisham	12-13	V	-do-
	15		Shisham	17-18	V	-do-
	16		Shisham	19-20	V	-do-
	17		Shisham	11-12	V	-do-
	18		Shisham	15-16	V	-do-
	19		Shisham	13-14	V	-do-
	20		Shisham	18-19	V	-do-
	21		Shisham	13-14	V	-do-
	22		Shisham	11-12	V	-do-
	23		Shisham	27-28	IV	-do-
	24		Shisham	17-18	V	-do-
	25		Shisham	11-12	V	-do-
	26		Shisham	11-12	V	-do-

Saplings					
1		Shisham	67	Saplings	-do-
2		Reuin	5	Saplings	-do-
3		Kakar Singhi	1	Saplings	-do-

ABSTRACT				
SPP.	SHISHAM			TOTAL
CLASS	V	IV	III	
VOLUME (CUM)	0.094	0.294	0.708	
QUANTITY (NO OF TREES)	19	6	1	26 Nos
TOTAL VOLUME (CUM)	1.786	1.764	0.708	4.258 m ³

Vijle Engg
MGP STNL Nithal

B.O. Main

B.O. Main

Range Forest Officer
Forest Range Nither

Divisional Forest Officer
Anni Forest Division
at Luhri

Location list of trees in main quarry road of Luhri Hydro Electric Project Stage-I
UPF Nither C-84, Moin Beat, Moin Block, Nither Forest Range, Forest Division
Anni at Luhri. (Alternate-II) detail as under -

Name of Forest	Forest wise Sr. no.	Khasra No.	Spp.	Dia	Class	Remarks
UPF Nither C-84	1					
	2		Pechka	14-15	V	Green Standing
	3		Shisham	12-13	V	-do-
	4		Safeda	12-13	V	-do-
	5		Safeda	15-16	V	-do-
	6		Safeda	17-18	V	-do-
	7		Safeda	21-24	IV	-do-
	8		Safeda	20-21	IV	-do-
	9		Shisham	15-16	V	-do-
	10		Safeda	16-17	V	-do-
	11		Chil	18-19	V	-do-
	12		Chil	12-13	V	-do-
	13		Chil	21-22	IV	-do-
	14		Chil	16-17	V	-do-
	15		Chil	12-13	V	-do-
	16		Chil	16-17	V	-do-
	17		Chil	13-14	V	-do-
	18		Chil	23-24	IV	-do-
	19		Chil	13-14	V	-do-
	20		Chil	15-16	V	-do-
	21		Chil	24-25	IV	-do-
	22		Chil	19-20	IV	-do-
	23		Chil	29-30	III	-do-
	24		Chil	21-22	IV	-do-
	25		Chil	14-15	V	-do-
	26		Chil	14-15	V	-do-
	27		Chil	18-19	V	-do-
	28		Shisham	12-13	V	-do-
	29		Chil	21-22	IV	-do-
	30		Chil	22-23	IV	-do-
	31		Chil	22-23	IV	-do-
	32		Chil	14-15	V	-do-
	33		Chil	16-17	V	-do-
	34		Chil	14-15	V	-do-
	35		Chil	20-21	IV	-do-
	36		Chil	16-17	V	-do-
	37		Chil	13-14	V	-do-
	38		Chil	18-19	V	-do-
	39		Chil	13-14	V	-do-
	40		Chil	15-16	V	-do-
	41		Chil	23-24	IV	-do-
	42		Chil	18-19	V	-do-
	43		Chil	13-14	V	-do-
	44		Chil	14-15	V	-do-
	45		Chil	17-18	V	-do-
	46		Chil	12-13	V	-do-
	47		Chil	18-19	IV	-do-
	48		Chil	15-16	V	-do-
	49		Chil	17-18	V	-do-
			Shisham	18-19	V	-do-

ABSTRACT

Name of Forest	Khasra No.	Spp	V	IV	III	IIA	Total Nos	Volume (m ³)
UPF Nither C-84		Shisham (Dalburgia sissoo)	0.094	-	-	-	-	-
			4	-	-	-	4	-
			0.376	-	-	-	-	0.376
		Chil	0.094	0.294	0.708	-	-	-
			26	11	1	-	38	-
			2.444	3.234	0.708	-	-	6.386
		Pechka (Lennea Coromendelica)	0.094	-	-	-	-	-
			1	-	-	-	1	-
			0.094	-	-	-	-	0.094
		Safeda (Eucalyptus)	0.094	0.294	-	-	-	-
			4	2	-	-	6	-
			0.376	0.588	-	-	-	0.964
		Grand Total					49	7.820

Vishu Singh
2nd P. S. N. D. B. D. M.

B. O. M. M.

B. O. M. M.

Range Forest Officer
Forest Range Nither

Signature

Station list of trees in moin quarry road of Luhri Hydro Electric Project
in UPF Nither C-84, Moin Boat, Moin Block, Nither Forest Range, Forest
Division Anni at Luhri. (Alternate-III) detail as under -

Name of Forest	Forest wise Sr. no.	Khasra No.	Spp.	Dia	Class	Remarks
UPF Nither C-84	1		Shisham	27-28	IV	Green Standing
	2		Shisham	34-35	III	-do-
	3		Shisham	36-37	III	-do-
	4		Shisham	28-29	IV	-do-
	5		Shisham	32-33	III	-do-
	6		Reuin	18-19	V	-do-
	7		Reuin	22-23	IV	-do-
	8		Reuin	26-27	IV	-do-
	9		Reuin	23-24	IV	-do-
	10		Shisham	43-44	II A	-do-
	11		Shisham	38-39	III	-do-
	12		Shisham	32-33	III	-do-
	13		Shisham	44-45	II A	-do-
	14		Shisham	33-34	III	-do-
	15		Shisham	38-39	III	-do-
	16		Shisham	25-26	IV	-do-
	17		Shisham	16-17	V	-do-
	18		Shisham	34-35	III	-do-
	19		Shisham	47-48	II A	-do-
	20		Shisham	44-45	II A	-do-
	21		Shisham	22-23	IV	-do-
	22		Shisham	35-36	III	-do-
	23		Shisham	24-25	IV	-do-
	24		Shisham	27-28	IV	-do-
	25		Shisham	33-34	III	-do-
	26		Shisham	35-36	III	-do-
	27		Shisham	42-43	II A	-do-
	28		Shisham	38-39	III	-do-
	29		Shisham	29-30	IV	-do-
	30		Shisham	27-28	IV	-do-
	31		Shisham	18-19	V	-do-
	32		Shisham	24-25	IV	-do-
	33		Shisham	17-18	V	-do-
	34		Shisham	16-17	V	-do-
	35		Pechka	38-39	III	-do-
	36		Pechka	22-23	IV	-do-
	37		Shisham	28-29	IV	-do-
	38		Shisham	23-24	IV	-do-
	39		Shisham	27-28	IV	-do-
	40		Shisham	18-19	V	-do-
	41		Shisham	18-19	V	-do-
	42		Shisham	27-28	IV	-do-

Saplings					
1		Shisham	17	Saplings	-do-
2		Reuin	20	Saplings	-do-

ABSTRACT

Name of Forest	Khasra No.	Spp	V	IV	III	IIA	Sapling	Total Nos	Volume (m ³)
UPF Nither C-84		Shisham (Dalburgia sissoo)	0.094	0.294	0.708	1.336	17	-	-
			6	13	12	5	-	36	
			0.564	3.822	8.496	6.68	-	-	19.562
		Riun (Mallotus Philippensis)	0.094	0.294	-	-	20	-	-
			1	3	-	-	-	4	
			0.094	0.882	-	-	-	-	0.976
		Pechka (Lennea Coromandelica)	-	0.294	0.708	-	-	-	-
			-	1	1	-	-	2	
			-	0.294	0.708	-	-	-	1.002
		Grand Total							37

Vijeta Singh
LHEP-STJNL Bldg

B. S. Moin
B.O. Moin

Range Forest Officer
Forest Range Nither

Divisional Forest Officer
Anni Forest Division

The Compliance Report of Luhri Hydro Electric Project Stage-1:-

The User agency has submitted the proposal in the office of DFO for Diversion of 98.1004 hac. of forest land in favour of SJVN Ltd. for construction of Luhri HEP Stage -1 in District Kullu & Shimla vide letter No. SJVN/LHEP/Env.-FCA/2017-18-2642 dated 11.01.2018. The In-principle approval has been obtained from MoEF vide letter No. F.No. 8-48/2018-FC dated 19-09-2019. In compliance of which the user agency has submitted compliance report vide letter No. 3242-45 dated 28.12.2019 along with necessary documents viz. undertaking & receipt of funds of CA, NPV, CAT & Add. CA. The final approval has accord by the MoEF vide letter No. F.No. 8-48/2018 dated 28.03.2020 subject to fulfillment of the following conditions:-

1	Conditions	Compliance
1	Legal status of the diversity forest land shall remain unchanged	The UA has already submitted the undertaking.
2	The compensatory afforestation over the degrade forest land, twice in extent to the area of forest land proposed to be diverted ($2 \times 98.1004 = 196.2008$ hectares of degraded forest land), shall be raised on identified land within a period of three years with effect from the date of issue of Stage II clearance and maintained thereafter in accordance with the approved Plan by the State Forest Department from the funds already provided by the User Agency.	This Division has proposed 100 hac. area for Compensatory Afforestation in lieu of this project, out of which the advance work in 40 hac. area has been completed during the year 2019-20 and the advance work in remaining 60 hac. will be completed during the year 2020-21.
3	The user Agency shall pay the additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.	The UA has already submitted the undertaking regarding additional amount of NPV, if so determined, as per the final decision of the Hon'ble Supreme Court of India.
4	The project area shall be demarcated on ground at the project cost using 4 feet high RCC pillars with each pillar inscribed with serial No. forward and backward bearing distance between 2 adjacent pillars and GPS Co-ordinates.	The project area has been demarcated on ground at the project cost using 4 feet high RCC pillars with each pillar inscribed with serial No. forward and backward bearing distance between 2 adjacent pillars and


		GPS Co-ordinates
5	The user agency shall obtain the Environmental Clearance as per the provisions on the Environmental (Protection) Act, 1986, if required.	The user agency has obtained Environment clearance vide MoEF letter No. J-12011/18/2015-IA-I (/r) Pt. dated 17.03.2020
6	The State government and user agency shall implement the R&R plans as per the R&R policy of State Government in consonance with National R&R Policy, Government of India before the commencement of the project work. The said R&R Plan will be monitored by the State Government / Regional Office of MoEF&CC along with indicators for monitoring and expected observable milestones.	As reported by UA, the R&R is under preparation.
7	The State Government and the user agency shall insure that there is no Illegal occupation / Encroachment of Forest land by the families to be displaced from the project site, the user agency shall ensure that each family being displaced from the project site actually acquires and settles on non-forest land. Apart from taking other measure to achieve the said objectives, as a measures to discourage the project affected families from encroaching into the forest land, payment of annuity for a period of at least five years at the rate of the minimum wages payable to the unskilled person for 200 persons days per annum to each adult member of the project affected families, on receipt of a certificate signed by a forest officer not below the rank of a Range Forest officer having jurisdiction over the area where such person has settled after displacement from the project site should be incorporated in the R & R plan. Payment of the said annuity should be an additionally and not in replacement of any of the benefits to be accrued to the project affected persons, as per the present R&R Plan.	This stipulation will be adhered in letter and spirit.
8	User Agency shall track location of the each displaced family and ensure that none of them encroach/occupy forest land. In support to this condition at least for five years from the date of taking possession of the forest land , user agency shall submit an annual certificate to the Principal Chief	This stipulation will be adhered in letter and spirit.

	Conservator Of Forest, Himachal Pradesh that none of the person displaced from the project land has encroached/settled on the forest land during the year.	
9	The State Government shall ensure that the Catchment Area treatment (CAT) Plan of the project shall be implemented under the supervision of State Forest Department from the funds already provided by the user agency.	The CAT plan will be implemented on year to year basis as per the financial outlay.
10	The State Government shall ensure that felling of trees, if unavoidable on the forest land being diverted will be reduced to the bare minimum and the trees should be felled under strict supervision of the State Forest Department . Moreover it shall be ensured that whenever possible maximum trees marked for felling should be translocated in the consultation of the State Forest Department.	The process of marking of trees is under progress.
11	Other standard conditions as applicable to proposals relating to Hydro Electrics Projects will be applicable in this also.	-
12	The user agency shall take up afforestation activities all along the Reservoir/Dam/Canal in consultation with the Forests Department.	The UA has already submitted the undertaking.
13	The Government of Himachal Pradesh and the user agency shall ensure that the trees available between Full reservoir level (FRL) and FRL-4 meters are not felled.	This stipulation is being complied.
14	The User agency shall provided free water from the project for all forestry related activities.	The UA has already submitted the undertaking.
15	The layout plan of the proposal shall not be changed without the prior approval of the Central Government.	The UA has already submitted the undertaking.
16	No Labuor camps shall be established on the forest land.	The UA has already submitted the undertaking.
17	The forest land shall not be used for any purpose other than that specified in the proposal and under no circumstances be transferred to any other agency department or persons.	The UA has already submitted the undertaking.
18	The User agency shall provided alternate fuels to the laborers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas.	The UA has already submitted the undertaking.
19	User agency shall ensure that because of this project, no damage is caused to the flora and fauna available in the area.	The UA has already submitted the undertaking.

20	The State Government shall ensure that the user agency may be carried out muck disposal at Pre-designated sites in such a manner so as to avoid its rolling down.	The UA has already submitted the undertaking.
21	The State Government and the user agency shall ensure that the dumping area for muck/slit disposal shall be stabilized and reclaimed by planting suitable species by the user agency at the cost of project under the supervision of State Forest department. Retaining walls and terracing shall be carried out to hold the dumping materials in place. Stabilization and reclamation of such dumping sites shall be completed before handing over the same to the State Forest Department in a time bound manner as per plan.	The UA has already submitted the undertaking.
22	The State Government and the user agency shall ensure that the consult organization (s) having experience in construction of roads in hilly areas to avoid frequent road blockade due to landslides etc. and shall provide breast walls and retaining walls wherever necessary.	The UA has already submitted the undertaking.
23	The State Government shall ensure that- consultation with State Agriculture Department to utilize such area (except those located in forest land) during dry months for cultivation of appropriate crops by the project affected families (without the use of fertilizers) simultaneously during implementation of the project.	-
24	Any other condition that the concerned Regional Office of this Ministry may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife, subject to approval of competent authority.	-
25	The user agency shall submit the annual self – compliance report in respect of the above conditions and also to the conditions stipulated in Stage-I clearance to the State Government , concerned Regional and this Ministry by the end of March of every year regularly.	-
26	The User Agency and the State Government shall ensure compliance to provisions of all the Act, Rules, Regulation, Guidelines, NGT Order (s) and relevant Hon'ble court Order (s). If any, pertaining to this project for the time being in	Will be complied in letter and spirit.

force, as applicable to this project.

The user agency has not started the construction works of the project as yet at the proposed


Divisional Forest Officer
Ani Forest Division at Luhri