

**Full Title of Project:**

Diversion of 0.7995Ha. of Forest Land for Construction of Sajla SHEP 2.00 MW Tehsil  
Manali, Forest Division at Distt. Kullu (H.P.)

File No.

Proposal No.

Date of Proposal

: FP/HP/HYD/150023/2021

: 18/02/2022

**Check List No. 1****CHECK-LIST****OF****DOCUMENTS/INFORMATION REQUIRED FOR  
PROPOSAL****FOR DIVERSION OF FOREST LAND FOR NON FORESTRY  
USE UNDER FOREST (CONSERVATION) ACT, 1980**

S.No.	Name of the Document (s)	Provided or Not	If not Provided Why?	Page Number
1	Check-list of the project proposal	Yes		1-9
2	Demand letter of the project authority/ applicant, if submitted.	Yes		10
3	Main application form from Part-I to V as prescribed in the Rules under the FCA with all its columns duly filled up and signed by the competent authority with date, place and official seal. All the information in Part-I of Form-A including item-wise breakup of the forest area required, must be given in the form itself by expanding the columns	Yes		11-18
4	Detailed note on the project. It must include the information regarding the number of villages and number of persons to be benefited from the project including employment generation.	Yes		19-24
5	Map of the project site/forest area required clearly showing forest boundaries and adjoining areas with their land use in distinct colours in 1:50000 or any suitable scale on original Survey of India topo sheet. If the area is very small, in addition to above, an index map may be submitted showing forest boundaries and a location map on a larger scale with land use of the area required duly signed by DFO/CF concerned.	Yes		25-26

6	Layout plan of project site approved by competent authority. In case of linear diversion of forest land, linear map or a diagrammatic map of the project site should be enclosed.	Yes		27
7	Statement showing the details of forest area involved i.e. Survey No. /Coupe No. /Compartment No., etc., and item-wise breakup of the forest area proposed for diversion duly signed by DFO ( <i>in the prescribed format</i> ).	Yes		28-29
8	Statement showing the details of non-forest area involved in the proposal ( <i>in the prescribed format</i> ).	Yes		30
9	Certificate from the Collector/Deputy Commissioner that no alternative suitable non-forest land is available for the project in question.	Yes		31
10	Justification for locating the project in forest area to be submitted by User Agency and countersigned by DFO.	Yes		32
11	Certificate for minimum use of forest land to be submitted by the User Agency, giving details of area and trees involved in the alternatives examined and reasons for their rejection duly countersigned by DFO ( <i>in the prescribed format</i> ).	Yes		33-39
12	Undertaking by the User Agency to bear the cost of compensatory afforestation duly counter signed by the DFO ( <i>in the prescribed format</i> ).	Yes		40
13	Undertaking by the User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by DFO ( <i>in the prescribed format</i> ).	Yes		41
	Undertaking by the User Agency to pay the Additional Net Present Value (NPV), if any, of the forest land involved duly countersigned by DFO ( <i>in the prescribed format</i> ) as decided at a later date as per the decision of the Supreme Court.	Yes		42



14	<p>A certificate from the competent authority in the State in the prescribed (<i>vide MoEF letter No. 11-9/98-FC (pt.) dated 5<sup>th</sup> July 2013</i>) format that all forest rights under the Forest Rights Act, 2006 have been settled in respect of the forest area proposed for diversion, wherever applicable.</p> <p>In case, the process for settlement of rights under FRA has not been initiated, grant of stage-I approval under the FCA to the proposal will be considered only if a certificate from the competent authority concerned, clearly stating that the process for settlement of rights under the FRA has not been initiated along with evidences supporting that settlement of rights under the FRA will be initiated and completed before the final approval, is enclosed with the proposal (<i>vide F. No. 11-179/2012-FC Dated: December 20, 2013</i>).</p>	Yes		43
15	Species-wise and girth class-wise enumeration list and abstract of trees ( <i>abstract to be given at the end of the list</i> ) standing on the forest area in question neatly typed or computerized and duly signed by DFO.	yes		44-47
16	Site inspection report of the forest area involved in the project proposal by the DFO concerned or higher level forest officer in prescribed format ( <i>in the prescribed format</i> ).	Yes		48
17	Details of non-forest land/degraded forest area identified for compensatory afforestation viz. Survey No./ Compartment No./Khasra No./Khatoni No., Village, Tehsil, District, etc., along with map in appropriate scale showing the boundaries of adjoining forest areas with their use in distinct colours ( <i>in the prescribed format</i> ).	Yes		49-51
18	Detailed scheme for compensatory afforestation on identified non-forest area/degraded forest area, as the case may be, at prevalent wage rates duly signed by DFO and countersigned by the CF concerned. The CA scheme must include all the technical details, details of work schedule, total financial outlay and proposed monitoring mechanism ( <i>in the prescribed format</i> ).	Yes		52-57
19	Certificate from the DFO, that non-forest land selected for compensatory afforestation is in a compact block and contiguous to forest area or in close proximity of forest area and suitable from the management and protection point of view.			

20	Suitability certificate from the Divisional Forest Officer that the land identified for compensatory afforestation is suitable for raising plantation ( <i>in the prescribed format</i> ).	Yes		58-59
21	Certificate from the Chief Secretary regarding non-availability of non-forest land in the state for raising compensatory afforestation, wherever applicable. This certificate will be based on the certificate signed by the DFO and Deputy Commissioner/Collector of the district concerned about non-availability of such non-forest land.	Yes		60
22	In case of proposal which requires entry/exit through Protected Forest strips along roads/railway lines/canals, the following information/documents must be given :-  a) No Objection Certificate (NOC) of the land owning agency i.e. NHAI/PWD, Railways or Canal/ Irrigation Department b) Change of Land Use certificate from Town and Country Planning/ any other competent authority.			
23	For the projects involving forest land for construction of buildings/right of way for buildings, the built-up area, details of DG sets to be installed, and raw materials to be used ( <i>in case of industries</i> ) should be clearly mentioned.			
24	Status of clearance under Environment (Protection) Act, 1986, wherever required.			
25	NOC of the State Pollution Control Board for establishment of the project, wherever required.			
26	Detailed scheme for rehabilitation of project affected persons, wherever required.			
27	Detailed Catchment Area Treatment Plan, wherever required. The CAT Plan should be prepared on the basis of actual survey of area and its classification in various categories requiring different engineering/ afforestation and other treatments in phased manner.			
28	Detailed Reclamation Plan, wherever required. It should be realistic exhaustive and complete in all respects along with relevant maps in distinct colours. It should also include the details of back fillings, afforestation and execution of such works, wherever required.	yes		61-76



29	Cost benefit analysis as per the guidelines issued under forest (Conservation) Act, 1980 in prescribed format, wherever required.			
30	Any other information/documents necessary for giving clarifications on the project, may be specified and attached.	Yes		77-86
II	Documents/Information Required for Proposals for Roads, Railway Lines, Canals and Transmission Lines			
31	<p>The following information/documents must be given :-</p> <p>a) Length and width of Road/Railway line/ Canal/ Transmission line passing through forest and non-forest area.</p> <p>b) In case of expansion of already existing road/railway line/canal, linear plan clearly showing in distinct colours the already existing road (<i>from beginning to end</i>), the width of the proposed road/railway line/canal to be expanded, and the remaining width of the Protect Forest strip, if any, which would be left after expansion.</p> <p>c) In case of transmission line, the following details may also be given :-</p> <p>i) Number of towers to be erected both in forest and non-forest area.</p> <p>ii) Width of the right of way for Transmission line.</p>			
III	Documents/Information Required for Proposals for Hydro Electric Projects			
32	<p>The following information/document must be given :-</p> <p>a) Component-wise total area requirement</p> <p>b) Copy of Memorandum of Understanding or Consent Letter.</p> <p>c) NOC from Irrigation and Public Health Department</p> <p>d) Fisheries Department NOC</p> <p>e) PWD NOC</p> <p>f) Wild Life NOC</p> <p>g) Gram Panchayat NOC</p> <p>h) Authorization to the applicant by the Project Authority</p> <p>i) Joint Inspection Report</p> <p>j) Field Book</p> <p>k) Tatima</p>	YES		<p>87</p> <p>88-97</p> <p>98-100</p> <p>101</p> <p>102</p> <p>103</p> <p>104</p> <p>105</p> <p>106-107</p> <p>108-114</p> <p>115-116</p>

IV	Documents/Information Required for Proposals for Mining			
33	<p>The following information/documents must be given :-</p> <p><b>I New Proposals</b></p> <ol style="list-style-type: none"> <li>Certificate from the competent authority like District Mining Officer/Geologist, regarding non-availability of the same mineral/ore in the nearly non-forest area.</li> <li>Estimated reserve of each mineral/ore in the forest area and non-forest area.</li> <li>Total area demanded and extent of forest area involved in the proposed mining lease shown in distinct colours on relevant maps</li> <li>Proposed period of mining lease.</li> <li>Minimum distance of the proposed site from Wildlife Sanctuary and National Park.</li> <li>A copy of the mining plan duly approved by IBM, Nagpur.</li> <li>Phased reclamation plan of the project area.</li> <li>Copy of lease deed/agreement entered into with the district authorities.</li> <li>The details of Safety Zone Area for the mining as per para 4.7 of the guidelines. The undertaking from the project authority to bear the cost of fencing of safety zone area and afforestation over one and half times of degraded forest area. The details of safety zone to be ascertained by the competent authority viz. Indian Bureau of Mines/ Deptt., of Geology and Mining of the State Government.</li> </ol> <p><b>II) In case of renewal of Mining Lease</b></p> <ol style="list-style-type: none"> <li>A brief profile of the lessee/ company should be submitted giving details of their existing mining leases in the State with their capacity of production, the present level of average annual production, location of these pits and the status of reclamation of forest land that are exhausted of minerals.</li> </ol>			



	<p>b) Complete details of existing or proposed leases in that particular forest area with their present status should be indicated on the Survey of India Topo-sheet in appropriate scale</p> <p>c) The State Government shall forward the complete proposal to the RO/MoEF at least six months prior to the expiry of the existing lease. In case of any delay, a details report elaborating the causes of delay shall be forwarded along with the Proposal</p> <p>d) A resolution of Gram Panchayat/ Local Body of the area endorsing the proposal that the project is in the interest of the people living in and around the proposed forest land.</p>			
V	Documents/Information Required for Proposals for Retail Outlets of an Oil Companies			
34	<p><i>The following information/ documents must be given :-</i></p> <p>a) Copy of letter of intent issued by the oil Company.</p> <p>b) Site selection certificate as per Govt. of India guidelines. The DFO should certify the distance between two retail outlets on either side of the outlet in question.</p> <p>c) Layout plan showing dimensions of proposed approach road for entry and exit with clear area calculations.</p> <p>d) Map clearly indicating the directions of the road leading from....to.....</p> <p>e) The area calculations for the curves should invariably be given in the layout plan.</p> <p>f) NOC from NHAI/PWD/Urban or local body</p>			

	<p>g) NOC from Town and Country Planning/ local body</p> <p>h) Certificate by User Agency to the effect that no High Tension line passing above the proposed site duly countersigned by DFO</p> <p>i) A Certificate by User Agency to the effect that no LP Gas godown is located near the proposed site duly countersigned by DFO</p>			
--	--	--	--	--

Date : 18/2/22....  
Place: Kullu

**Authorized Signatory**

M/s Seraj Hydro Power Developers  
M/S Seraj Hydro Power Developers  
Authorized Signatory

**Countersigned By:-**

Range Forest Officer  
Forest Range Naggar

Divisional Forest Officer  
Kullu Forest Division, Kullu  
Kullu Forest Division Distt. Kullu (HP)



**Full Title of the Project :** Diversion of 0.79950 Ha. of Forest land for Construction of Sajla SHEP 2.00 MW, Tehsil Manali Forest Division Kullu Distt. Kullu (HP)

**File No:**

**Proposal No.** : FP/HP/HYD/150023/2021

**Date of Proposal** : 18-02-2022

### Certificate


Certificate as required vide Nodal Officer (FCA) & CCF (FC), H.P. letter No.....


1. Full signature with complete address of user agency on request letter	Yes
2. All the undertakings are on letter head or judicial paper	Yes
3. Photocopies of concerned document duly self attested by user agency and countersigned by DFO	Yes
4. Photocopies of concerned NOC's duly self attested by user agency and countersigned by DFO	Yes
5. Signature on every paper of C.A. scheme	Yes

Date: 18/2/2022

Place: Kullu

  
Range Forest Officer,  
Forest Range Naggar

  
Authorized Signatory  
M/S SERAW HYDRO POWER DEVELOPERS  
SAJLA SHEP (2.00 MW)

  
Authorized Signatory

Countersigned By:-  
Divisional Forest Officer  
Kullu Forest Division Distt Kullu H.P.  
Kullu Forest Division, Kullu

**(Demand Letter)**

To

Divisional Forest Officer,  
Kullu Forest Division,  
Distt-Kullu (H.P)

Subject: Diversion of 0.7995 Ha. of forest land for Construction of SAJLA(2.00 MW) SHEP under Kullu forest Division of Distt. Kullu (H.P.).

Sir,

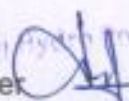
"Jai Hind "

We hereby applying for prior approval under section 2 of the state Govt. & other authorities for the subject cited proposal. Please find enclosed herewith six set of application on prescribed format.

We would be highly thankful for your early approval on the subject.

Thanking you,

Date: 18/2/2022  
Place: Kullu

M/s Seraj Hydro Power Developers  
Managing Partner   
Authorized Signatory  
M/S SERAJ HYDRO POWER DEVELOPERS



**Full Title of Project:** Diversion of 0.7995 Ha. of forest land for Construction of SAJLA SHEP 2.00 MW MW, Tehsil Manali Forest Division Kullu Distt. Kullu (H.P.)

**File No:**

**Proposal No.** : FP/HP/HYD/150023/2021

**Date of Proposal** : 18-02-2022

### **CHECK LIST NO. 3**

#### **Form 'A'**

Form for seeking prior approval under section 2 of the proposals by state Government and other authorities.

#### **PART-I** **(To be filled up by user agency)**

1	<b>Project details:-</b>	
(i)	Short narrative of the proposal and project/scheme for which the forestland is required.	Diversion of 0.7995 Ha. of forest land for Construction of SAJLA SHEP under Kullu forest Division of Distt. Kullu(H.P.)
(ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map	Attached
(iii)	Cost of the project	Approx. 1822.00Lacs
(iv)	Justification for locating the project in the forest area.	During survey & investigation, all other alternates were studied, but keeping in view the viability of project and minimum use of the forest land, present proposal was finalized. This project is to be constructed in a very remote area. The scheme does not touch the private land hence forest land was needed for this proposal.
(v)	Cost benefit analysis(to enclosed)	NA
(vi)	Employment likely to be generated	Approx. 180000 mandays and 8 permanent Jobs
2	Purpose-wise break-up of the total land required.	Land Required for Construction of project=0.7995 Ha.
3	Details of displacement of people due	NA

	to the project, if any:	
(i)	Number of families.	NA
(ii)	Number of scheduled castes/scheduled Tribe families	NA
(iii)	Rehabilitation plan(to be enclose)	NA
4	Whether clearance under Environment (Protection) Act, 1986 required? (yes/No).	NA
5	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/or penal compensatory afforestation as well as cost for protection and regeneration of safety Zone etc. as per the scheme prepared by the state government(undertaking to be closed)	Attached
6	Detail of certificates/documents enclosed as required under the instructions.	1. Project map 2. Compensatory Afforestation scheme & map 3. Site inspection by DFO.

Date: 18/02/2022

Place: Kullu

Authorized Signatory

M/S SERAJ HYDRO POWER DEVELOPERS

SAJLA SHEP (2.00MW)

Authorized Signatory

Ranger Forest Officer  
Forest Range Naggar

Countersigned By:-  
Divisional Forest Officer  
Kullu Forest Division

Kullu Forest Division Distt Kullu H.P.



**Full Title Of The Project:** Diversion of 0.7995 ha. of Forest land in favour of Seraj Hydro Power Developers for construction of Sajla SHEP 2.00 MW within the jurisdiction under Naggar Range, Kullu Forest Division Kullu District Kullu, HP.

**File No:** FP/HP/HYD/150023/2021  
**Date Of Proposal:** 18/02/2022

## PART- II

(To be filled by the concerned Deputy Conservator of Forest)

State Serial No Of Proposal \_\_\_\_\_


7	Location of the project/scheme	Diversion of 0.7995 ha. of Forest land in favour of Seraj Hydro Power Developers for construction of Sajla SHEP 2.00 MW within the jurisdiction under Naggar Range, Kullu Forest Division Kullu District Kullu, HP
I.	State/ Union Territory	H.P
II.	District	Kullu
III.	Forest Division	Kullu
IV.	Area of forest land proposed for diversion (in ha)	0.7995 ha.
V.	Legal status of forest	DPF ( Padri Chalon & Sajla Shil)
VI.	Density of vegetation	0.0093
VII.	Species- wise (Scientific names) and diameter class-wise enumeration of trees. (Detailed enumeration list enclosed at page no.)	Attached at page (44-46)
VIII.	Brief on vulnerability of the forest area to be erosion	There is no possibility of erosion of forest land by the construction of the proposed project.
IX.	Approximate distance of proposed site for diversion from boundary of forest.	Proposed site falls within the jurisdiction of DPF 1/10 Padri Chalon & 1/11 Sajla Shil.
X.	Whether forms part of a national park, wild life sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc. (if so, the details of the area, and comments of the chief wildlife warden to be annexed)	No, the area doesn't forms part of a national park, wild life sanctuary, biosphere reserve, tiger reserve, elephant corridor, etc.
XI.	Whether any rare / endangered / unique species of flora and fauna found in the area? if so details thereof.	No, rare / endangered / unique species of flora and fauna found in the area.
XII.	Whether any protected archaeological / heritage site /defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority.	There is no protected archaeological / heritage site /defense establishment or any other important monument is located in the area.

8	Whether the requirement of forest land as proposed by the user agency in col. 2 of part-I is unavoidable and barest minimum for the project, if no, recommended area item-wise with details of alternatives examined.	Yes, the forest area proposed as 0.7995 ha is barest minimum. There is no other alternate suitable for the project.
9	Whether any work in violation of various Forest Acts has been carried out (Yes/No). if Yes, details of the same including period of work done, action taken against the erring officials. Whether work done in violation is still in progress?	No work started yet.
10	Details of Compensatory afforestation schemes	
I.	Details of non-forest area / degraded forest area identified for compensatory afforestation, its distance from adjoining forest, number of patches, size of each patch.	Attached at page 49-57
II.	Map showing non-Forest/degraded forest area identified for compensatory afforestation and adjoining forest boundaries.	Attached at page No. 50-51
III.	Detailed compensatory afforestation scheme including species to be planted, implementing agency, time schedule, cost structure, etc.	Attached page No. 52-57
IV.	Total financial outlay for compensatory afforestation scheme	Rs. 435440/-
V	NPV	Attached at page No. 86
VI.	Certificate from competent authority regarding suitability of area identified for compensatory afforestation and from management point of view. (To be signed by the concerned Deputy Conservator of Forests.	Attached at page No. 58
11	Site inspection report of the DCF (to be enclosed) especially highlighting facts asked in col. 7 (xi, xii), 8 and 9 above	Attached at page No. 48
12.	<b>Division/ district profile</b>	
i)	Geographical area of the district	550300 ha (5503sq km)
ii)	Forest area of the district	495200 Ha (As per HP Forest statistic 2005)
iii)	Total forest area diverted since 1980 with number of cases.	No. of cases = 172 Area diverted = 489-0332 ha
iv)	Total compensatory afforestation stipulated in the district/ division since 1980 onwards.	1048-9881 ha
(a)	Forest land including penal compensatory	1048-9881 (CA 1002-2087 ha + Penal CA



	Afforestation	=46.7794 ha)
(b)	Non forest land	Nil
v)	Progress of compensatory afforestation as on dated 31-03-2022	954-1988 ha
(a)	Forest Land	954-1988 ha
b)	(Non forest land	Nil.
13.	Specific recommendations of the DCF for acceptance of otherwise of the proposal with reason.	Recommended for approval.

Place : Kullu  
Date: 16/06/2022

  
Divisional Forest Officer  
Kullu Forest Division, Kullu  
Kullu Forest Division, Kullu

**Full Title of Project:** Diversion of 0.7995 Ha. of forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division Kullu Distt. Kullu (H.P.)

**File No:**

**Proposal No.** : FP/HP/HYD/150023/2021

**Date of Proposal** :

### PART-III

(To be filled by the Concerned Conservator of Forests)

1	Whether site, where the forest land involved is located has been inspected by concerned Conservator of Forest (Yes/ No). If yes, the date of inspection & observations made in form of inspection note to be enclosed.	
2	Whether the concerned Conservator of Forests agree with the information given in Part-B and the recommendations of Deputy conservator of Forests.	
3	Specific recommendation of concerned Conservator of Forests for acceptance or otherwise of the proposal with detailed reasons	

Date: 18/2/2022

Place: Kullu

Conservator of Forest

Forest Division Distt Kullu H.P.



**Full Title of Project:** Diversion of 0.7995 Ha. of forest land for Construction of SAJLA SHEP 2.00 MW MW, Tehsil Manali Forest Division Kullu Distt. Kullu (H.P.)

**File No:**

**Proposal No.** : FP/HP/HYD/150023

**Date of Proposal** :

#### PART-IV

(To be filled in by Nodal Officer or Principal Chief Conservator of Forests or Head of Forest Department)

1	Detailed opinion and recommendation of the State Forest Department for acceptance or otherwise of the proposal with remarks. (While giving opinion, the adverse comments made by concerned Conservator of Forests or Deputy Conservator of Forests should be categorically reviewed and critically commented upon)	
---	--	--

Place:

Date:

**Full Title of Project:** Diversion of 0.775 Ha. of forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division Kullu Distt. Kullu (H.P.)

**File No:**

**Proposal No.** : FP/HP/HYD/150023

**Date of Proposal** :

**PART-V**

(To be filled in by the Secretary in charge of Forest Department or by any other authorized officer of the state Government not below the rank of an under Secretary)

1	<p>Recommendation of the State Government:</p> <p>(Adverse comments made by any officer or authority in Part-B or Part-C or Part-D above should be specifically commented upon)</p>	
---	---	--

Place:

Date:



Full Title of Project: Diversion of 0.7995 Ha. of Forest land for Construction of SAJLA SHEP 2.00 MW , Tehsil Manali Forest Division Kullu Distt. Kullu (H.P.)

**File No:**

**Proposal No.** :FP/HP/HYD/150023/2021

**Date of Proposal** : 18-02-2022

### **CHECK LIST NO.4**

#### **Detail Note on the project**

#### **INTRODUCTION OF THE PROMOTERS**

M/s SERAJ HYDRO POWER DEVELOPERS has been incorporated by technocrats with the vision of harnessing renewable energy available in India. Small hydro power is one of the renewable energy and SAJLA SHEP falls in this category of renewable energy of power sector.

#### **LOCATION OF THE PROJECT**

SAJLA Small Hydro Power Project is a run of the river scheme for power generation of 2.00 MW on Kanoi nallah. The project site is near about 35 Km from Kullu. The diversion / Intake site is located at latitude 32°-10'-8.01"and longitude 77°-12'-59.99"and power house at latitude 32° -10'-28.54"North and longitude 77°-11'-58.08"East. Topo Sheet No is 52H/4 & 52 H/8.

#### **CHOICE OF SCHEME**

For optimum utilization of power potential available in the lower reaches of Kanoi Nallah three alternatives were considered and the best possible alternate was selected on the merit basis.

#### **ALTERNATIVE - I**

This is mainly a right bank alternative. The alternative involves construction of diversion structure at El + 2250.00 m on Kanoi Stream just near village Khakhnal . The project component shall consist of diversion weir, Feeder Pipe 5 m long I, Desilting tank Cum Forebay tank, However, penstock alignment runs through rocky slope. The gross head available for power generation shall be around 300m. The left bank of the khad does have stable slopes but in some areas due to saturation to be caused by water conductor system sliding tendencies may occur in few areas. Surface power house is located on Left bank of the Kanoi Nallah.

#### **ALTERNATIVE - II**

This alternative involves construction of diversion structure at Kanoi nallah at El +2250 meter. The left bank has exposed rocky strata & cutting more trees at this bank if this bank is proposed.

#### **ALTERNATIVE - III**

This alternative involves construction of diversion structure at Kanoi nallah at El +2250 meter. This alternate involves large no. of trees and also found loose portion and topography of the same is not suitable for laying of penstock and slopes are not stable for construction of the project.

**In view of the advantages offered by the alternative I, it has been taken up for preparation of Detailed Project Report.**

Examining above three alternatives, alternate no -I was finally adopted, which is environmentally sustainable, socially equitable, ecologically compatible and economically viable. Trees and area coming in this alignment is less than other alignment.

#### **GEOLOGY OF THE PROJECT AREA**

The catchment of Sajla Hydro Electric Project lies longitude 32°-10'-8.01" and 77°-12'-59.99" and power house at longitude 32°-10'-28.54" North and 77°-11'-58.08" East. Kanoi stream originates from high snow clad mountains having elevation 4350 m above MSL. Rocks are better with regard to strength, erosion resistance, weathering resistance and



water observation capacity. Rocks are exposed intermittently at most of the places. Some of the area is covered with overburden of varying depth.

Manikaran Quartzite, chloriticphylliticandmetabasic of Banjarformation occur in this area. These are covered by over burden deposits consist of colluvial, fluvioglacialand

fluvial materials. These deposits are of Quaternary to recentage. White quartzite known as the Manikaran Quartzite is the main rock type and found from intake site to Desilting Tank cum Forebayalong the Feeder Pipealignment. Fine to medium grained Phylliteinterbedded with quartzite, chloriticphyllite with basic schist are occurring in penstock and powerhouse area. Following discontinue ties are found in the project area.

**Table-1.1**

Set No	Dip	Dip Direction	Strike
I	Bedding-36 <sup>0</sup> -42 <sup>0</sup>	N30 <sup>0</sup> -50 <sup>0</sup> E	N40 <sup>0</sup> to 60 <sup>0</sup> W - S40 <sup>0</sup> to 60 <sup>0</sup> E
II	Foliation -42 <sup>0</sup> -50 <sup>0</sup>	N10 <sup>0</sup> -60 <sup>0</sup> E	N30 <sup>0</sup> to 80 <sup>0</sup> W - S30 <sup>0</sup> to 80 <sup>0</sup> E
III	Joint-68 <sup>0</sup> -82 <sup>0</sup>	S20 <sup>0</sup> -50 <sup>0</sup> W	N40 <sup>0</sup> to 70 <sup>0</sup> W - S40 <sup>0</sup> to 70 <sup>0</sup> E
IV	Joint-90 <sup>0</sup>	-	N30 <sup>0</sup> to 50 <sup>0</sup> E - S30 <sup>0</sup> to 50 <sup>0</sup> W
V	Joint-90 <sup>0</sup>	-	N30 <sup>0</sup> to 60 <sup>0</sup> W - S30 <sup>0</sup> to 60 <sup>0</sup> E
VI	Joint-70 <sup>0</sup>	N40 <sup>0</sup> W	N50 <sup>0</sup> E - S50 <sup>0</sup> W

## **WEIR SITE & INTAKE SITE**

The proposed Intake structure is located on the right bank of the Kanoi stream near Sajla village. The axis is aligned N30<sup>0</sup>W - S30<sup>0</sup>E just downstream of existing wooden bridge. Out crop is available up to river bed belonging to Manikaran Quartzite of BanjarFormationon right bank. Bedding strike direction is N60<sup>0</sup>W-S60<sup>0</sup>E with 36<sup>0</sup> dip

toward  $N30^{\circ}E$ . At right bank thick fluvio-glacial material is seen covering most of the area. In river bed boulders of gneisses & quartzite with sandy- gravelly axis are present. Slope on left bank is loose portion and steeper than right bank.

### FEEDER PIPE

5.00m long power pipe having 1.00m dia is provided upto D-Tank whose slope & velocity is 1:200m and 3.49m/s respectively.

The rock unit comprises of Quartzite with subordinate bands of schist belonging to Manikaran quartzite of Banjar formation. Manikaran quartzite is a white, massive quartzite but light greenish grey and banded type is also

seen at places. The quartzite is highly metamorphosed and is generally very hard. It breaks with sub coincided fracture yielding sharp edges.

### D Tank cum Forebay Tank

The D tank Cum Forebay Tank of size 35.00m x 8.00m and height 6.00m has been proposed at an elevation of  $\pm 2248.11m$ . It is located on the rocky area and consists of phyllite with quartzite bands and amphibolites/basic rocks. It is grey to greenish grey, moderately to highly weathered. General trend of strike of foliation is  $N30^{\circ}$  to  $60^{\circ}W$ - $S30^{\circ}$  to  $60^{\circ}E$  dipping  $42^{\circ}$ - $50^{\circ}$  towards NE to ENE direction. The D Tank Cum Forebay Tank is partially underground and portions below NSL are covered with rock. While excavating the D Tank Cum Forebay Tank side slope needs to be protected. The location of D Tank Cum Forebay Tank is safe & no construction problem is anticipated at this location.

### PENSTOCK

A 2070.00m long penstock alignment passes along the right bank of the Kanoi Nallah. The average slope of penstock will be 50 degree with minimum 40 degree to



maximum of 60 degree. Here medium to coarsegrained, moderately to highly weathered amphibolites sand mica schist bands are present along weathered phyllitic. Some openings are noticed along joints at this location.

### **SURFACE POWER HOUSE**

Power House of the proposed Sajla small hydro power project is located on Left bank of Kanoi Nallah. The powerhouse is proposed on a gentle slope consisting fluvial/fluvioglacial deposit. Thickness of this overburden material extended upto riverbed so there are least chances to meet the rock at power house pit. Above this deposit towards hill side weathered phyllite with quartz bands exposures occur on back slope of power house. Foliation dips towards hillside and upstream. Back slope of the power house seems stable. After careful investigation of the geological and geo morphological conditions of power house area which was selected around EL

±1945.00m. It is located about 5m above the riverbed where massive cutting in steps is required for the placement of powerhouse.

### **TAIL RACE**

The proposed 25 m long rectangular shaped tailrace is located on fluvial deposit at Left bank of stream. This overburden slope is very steep hence suitable protection is required at this location to avoid slope instability due to cutting of the slope.

### **HYDROLOGICALANDMETEOROLOGICALINVESTIGATIONS**

Discharge measurements of Kanoi nallah is begin by the developer however long-term details not available. The long-term discharge data has been calculated via regression analysis method.

The study of the different hydrological parameters like catchment area, rainfall and Runoff etc. are very important parameters to know for the proper designing of the scheme. Following studies were done.

- Calculation of Total catchment area above weir sites of the Project i.e. above elevation of 2245.00m is calculated from Topo Sheet 52H/3 is 8.95Sq.Km.
- Ten Daily discharge of Allain Duhangan Nallah in district Kullu as measured from year 1971-72 to 1994-95 which is in nearby catchment area.
- Observed discharge data of year Sep, 2009 to Aug, 2017 at weir site covering more than two lean seasons.
- Developing long term series for same years with regression analysis.

### CATCHMENT AREA

The stream is a perennial stream. It originates from the high peaks having an elevation of EL 4350 meters. Above Mean Sea (MSL) Level (measured from topo sheet no. 52H/4 of the Survey of India). The total catchment area above the proposed Diversion Weir of Sajla Small Power Project is 8.95 Sq. km. including snow fed catchment area. The catchment is covered with thick forests and barren land. There is negligible seepage in catchment terrain and most part of the rain fall results in run-off in the stream.

### POPULATION AFFECTED

Sajla SHEP has no shortage reservoir and so on submergence case is involved. In the layout of project components, no habitat is to be affected. As much no population is adversely affected by the execution of this project. The project will generate employment to the local youth and shall industry in the vicinity of the project area.


Date: 18/2/22

Place: Kullu

Authorized Signatory  
M/S SERAJ HYDRO POWER DEVELOPERS  
SAJLA SHEP (2.00 MW)

  
Range Forest Officer  
Forest Range Naggar

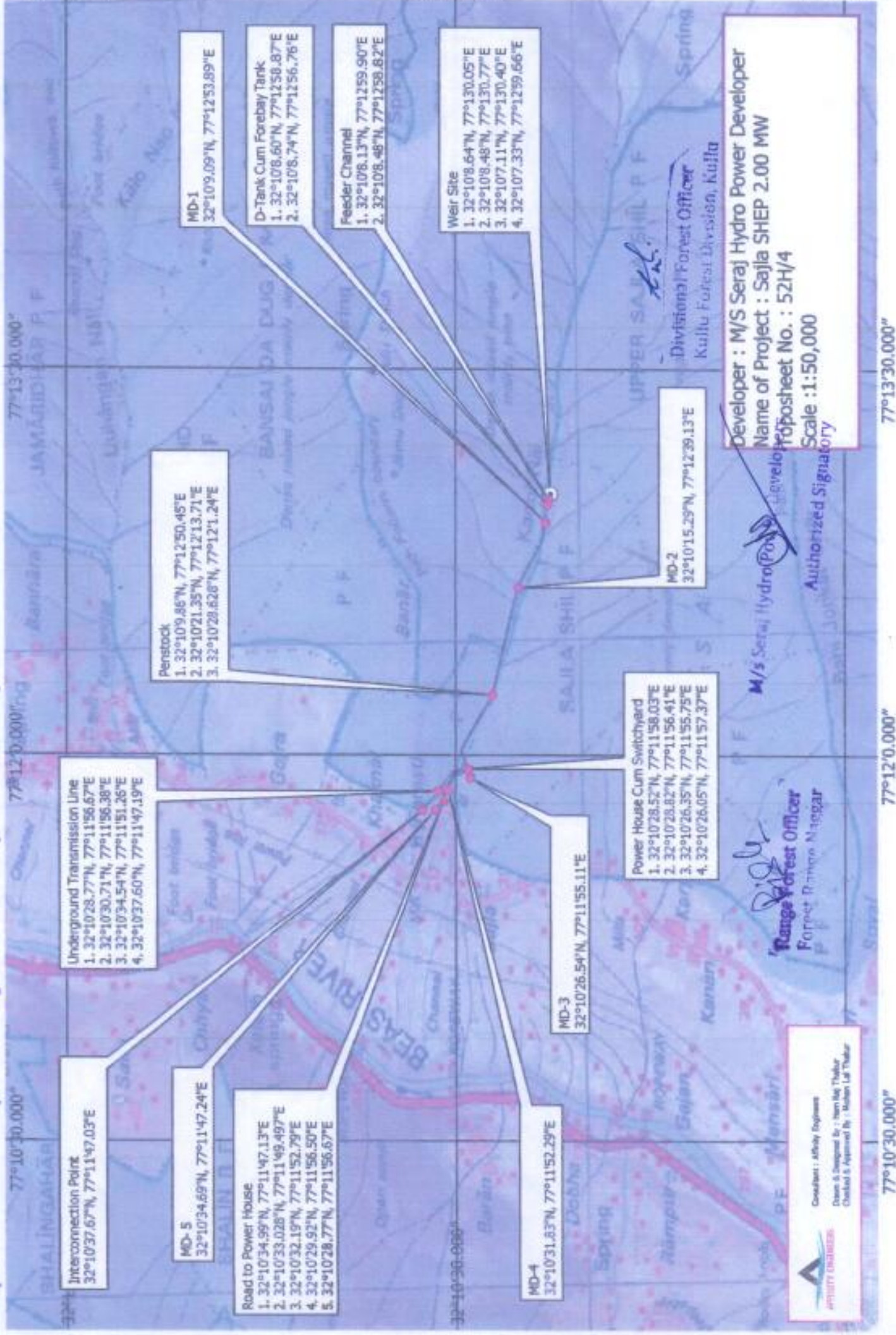
Countersigned By: -

  
Divisional Forest Officer  
Kullu District, Himachal Pradesh  
Distt. Kullu (H.P.)



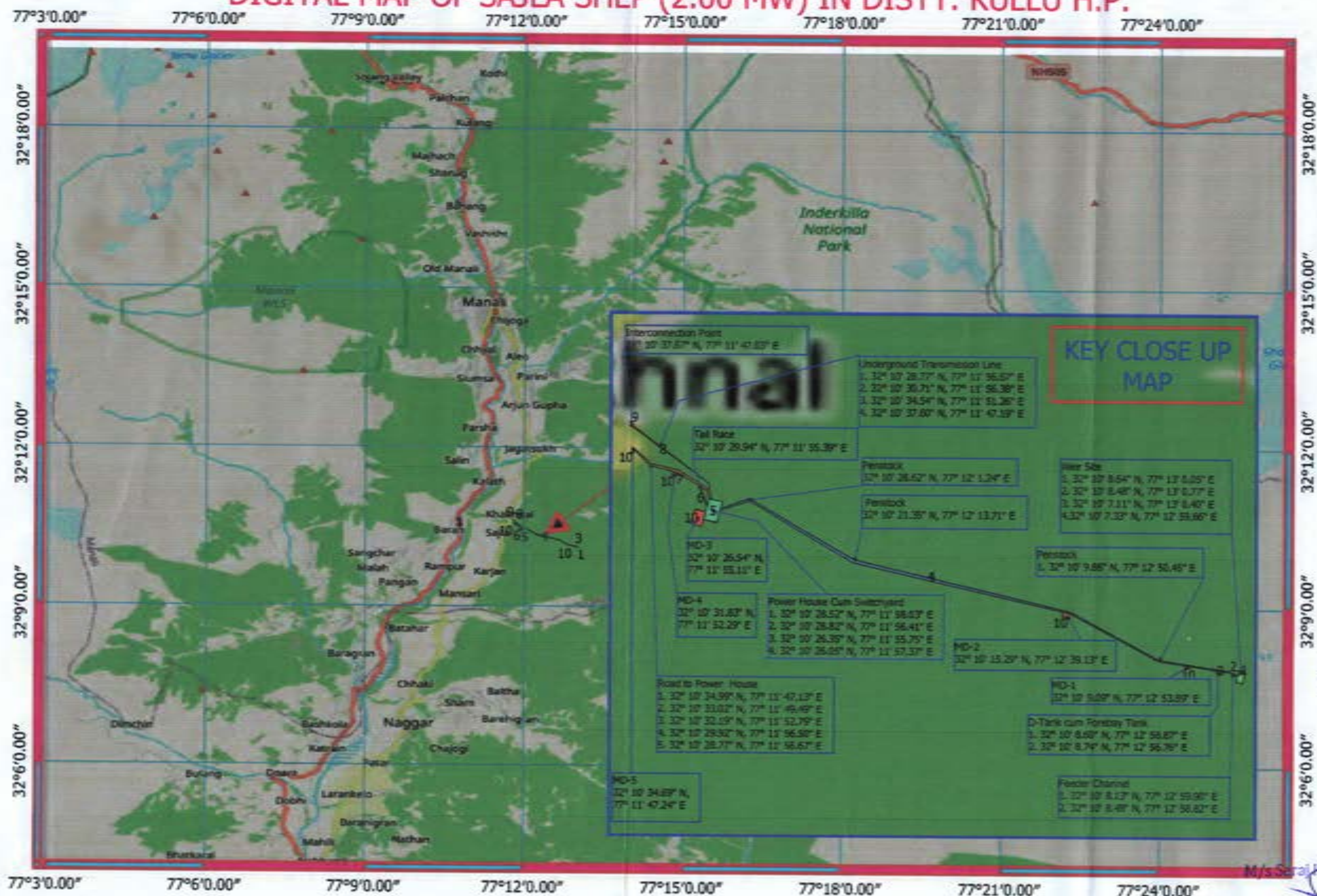
# Toposheet Map of Sajla SHEP (2.00 MW)

Check List No. 5





# DIGITAL MAP OF SAJLA SHEP (2.00 MW) IN DISTT. KULLU H.P.

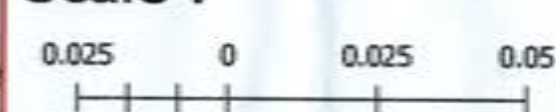


Divisional Forest Officer  
Kullu Forest Division Kullu

Authorized Signatory



Scale :



**AFFINITY ENGINEERS**

Prepared & Design By : Hem Raj Thakur  
Checked & Approved By : Mohan Lal Thakur



[illegible]

M/s Seral Hydro Pumps Developers  
Authorized Signatory

NAME OF DEVELOPER:	M/S SERIAL HYDRO POWER DEVELOPERS
NAME OF PROJECT:	SALTA SUB 200MW
CAPACITY OF PROJECT:	200MW
DRAWN BY:	KISHORI LAL DOGRA
DESIGNED BY:	RAJESH KUMAR
CHECKED BY:	RAJESH KUMAR
NAME OF CONSULTANT:	RAJESH KUMAR (REGD NO:DP-941)



Full Title of the Project **Diversion of 0.7995 Ha. of forest land for construction of Sajla SHEP (2.00) MW**  
 Tehsil Manali, Forest Division at Kullu (HP)  
 Proposal No. **FP/HP/HYD/150023/2021**  
 Date of Proposal

**CHECK LIST SERIAL NUMBER -07**

**STATEMENT SHOWING DETAILS OF FOREST AREA PROPOSED FOR DIVERSION IN SAJLA SHEP (2.00 MW)**

Sr. N.	District	Division	Range/Sub-Tehsil/Mohali/Fathi/Kothi	Khasra/Tukda/ Survey or Compartment Number of Km. Stone	Forest Area proposed for Diversion (Ha.)	Legal Status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 1 to 14	0.6646	DPF Padri Chalon	Detail Attached
15	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Barshai	Tukda No. 1 to 6	0.1349	DPF Sajla Shil	Detail Attached
<b>TOTAL</b>					<b>0.7995</b>		

**Total Forest Land for Diversion                      0.7995Hactare**

**M/s Seraj Hydro Power Developers**

Authorized Signatory

**Authorized Signatory**

  
**Range Forest Officer**  
**Forest Range Naggar**

Countersigned By :-

  
**Divisional Forest Officer**  
**Forest Division Kullu (HP)**  
**Kullu Forest Division, Kullu**



Full Title of the Project Division of 0.7995 Ha. of forest land for construction of Sajla SHEP (2.00) MW  
Tehsil Manali, Forest Division at Kullu (HP)  
Proposal No. FF/HP/HYD/150023/2021  
Date of Proposal

### CHECK LIST SERIAL NUMBER -07 A

STATEMENT SHOWING DETAILS OF FOREST AREA PROPOSED FOR DIVERSION OF SAJLA SHEP (2.00 MW)

Sr. No.	District	Division	Range/Sub-Tehsil/Mohali/Pathi/Kothi	Khasra/Tukda/ Survey or Compartment Number of Km. Stone	Forest Area proposed for Diversion (Ha.)	Legal Status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 1	0.0080	DPF Padri Chalon	Interconnection Point
2	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 2	0.0231	DPF Padri Chalon	Underground TL-1
3	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 3	0.0250	DPF Padri Chalon	MD-1
4	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 4	0.1230	DPF Padri Chalon	Road to Power House
5	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 5	0.0150	DPF Padri Chalon	MD-2
6	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 6	0.0002	DPF Padri Chalon	Underground TL-2
7	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 7	0.4006	DPF Padri Chalon	Penstock-1
8	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 8	0.0160	DPF Padri Chalon	MD-3
9	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 9	0.0200	DPF Padri Chalon	MD-4
10	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 10	0.0150	DPF Padri Chalon	D-Tank
11	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 11	0.0005	DPF Padri Chalon	Score Pipe
12	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 12	0.0035	DPF Padri Chalon	Feeder Pipe
13	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 13	0.0015	DPF Padri Chalon	Gravel Taper
14	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/Jagatsukh	Tukda No. 14	0.0150	DPF Padri Chalon	Weir Site
15	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 1	0.0050	DPF Sajla Shil	Tail Race
16	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 2	0.0022	DPF Sajla Shil	Underground TL-3
17	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 3	0.0300	DPF Sajla Shil	MD-5
18	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 4	0.0800	DPF Sajla Shil	Power House/Switchyard
19	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 5	0.0045	DPF Sajla Shil	Road to Power House
20	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Banshal	Tukda No. 6	0.0132	DPF Sajla Shil	Penstock-2
TOTAL					0.7995		

Total Forest Land for Diversion 0.7995 Hectare

M/s Seral Hydrosystems Developers

Range Forest Officer  
Forest Range Naggar

Authorized Signatory

Countersigned By :-

Divisional Forest Officer  
Kullu Forest Division, Kullu

**Full Title of the Project:** Diversion of 0.7995 Ha. of forest land for construction of Sajla SHEP (2.00) MW Tehsil Manali, Forest Division at Kullu (HP)  
**Proposal No.** FP/HP/HYD/150023/2021

**Date of Proposal**

**CHECK LIST SERIAL NUMBER -08**

**STATEMENT SHOWING DETAILS OF NON-FOREST AREA PROPOSED FOR DIVERSION**

S.No.	District	Division	Range/Tehsil /Village/Mahal	Khasra/ Survey or Compartment Number of Km. Stone	Non Forest Area involved in the proposal	Present land Use	Remarks
1	2	3	4	5	6	7	8
1	Kullu	Kullu	Nagar/Manali/DPF Padri Chalon/Ghojra/jagatsuk h	Nil	0	0	
2	Kullu	Kullu	Nagar/Manali/DPF Sajla Shil/Barshal	Nil	0	0	
<b>Total Land Required</b>					<b>0.0000</b>	<b>0.0000</b>	

Date  
Place

**M/s Seraj Hydro Power Developers**  
 Authorized Signatory

Authorized Signatory

*[Signature]*  
 Range Forest Officer  
 Forest Range Naggar

Countersigned By :-

*[Signature]*  
 Divisional Forest Officer  
 Divisional Forest Officer  
 Forest Division Kullu (HP)  
 Kullu Forest Division, Kullu

**कार्यालय उपायुक्त कुल्लू जिला कुल्लू हिमाचल प्रदेश।**  
**अनुपलब्धता प्रमाण पत्र**

M/s Seraj Hydro Power Developers, Admin Office House no. 123, Ward No. 5 Raghunathpur Kullu (HP), से प्राप्त पत्र दिनांक 02/06/2021 के सम्बन्ध में संलग्न संयुक्त निरीक्षण रिपोर्ट दिनांक 27/04/2021 सहित for construction of Sajla Small Hydro Electric Project (2MW) in Tehsil Manali, District Kullu (HP) हेतु प्रस्तावित सरकारी/वन भूमि रकबा 00-79-96 हैक्टेयर के हस्तान्तरण बारे अनुपलब्धता प्रमाण पत्र जारी करने का अनुरोध किया गया है। संयुक्त मौका निरीक्षण रिपोर्ट के अनुसार उपरोक्त प्रस्तावित सरकारी/वन भूमि न्यूनतम एवं अधिक उपयुक्त है तथा उपरोक्त प्रयोजन हेतु प्रस्तावित सरकारी/वन भूमि के अतिरिक्त अन्य भूमि उपलब्ध न है।

अतः उप मण्डल अधिकारी (ना0), मनाली की रिपोर्ट व संयुक्त निरीक्षण रिपोर्ट के आधार पर प्रस्तावित सरकारी/वन भूमि रकबा 00-79-96 हैक्टेयर का M/s Seraj Hydro Power Developers, Admin Office House no. 123, Ward No. 5 Raghunathpur Kullu (HP) को उपरोक्त प्रयोजन हेतु अनुपलब्धता प्रमाण पत्र जारी किया जाता है।

(आशुतोष गर्ग, भा0प्र0से0)

**उपायुक्त कुल्लू।**

पृष्ठांकन संख्या: 1191-93 / डी0आर0ए0

दिनांक: 14/7/21

प्रतिलिपि सेवा में:-

1. उप मण्डल अधिकारी (ना0), मनाली, जिला कुल्लू को सूचनार्थ एवं आगामी आवश्यक कार्यवाही हेतु प्रेषित है।
2. वन मण्डल अधिकारी, कुल्लू, जिला कुल्लू को प्रेषित कर अनुरोध है कि वन संरक्षण अधिनियम 1980 के अन्तर्गत केन्द्र सरकार के पर्यावरण एवं वन विभाग की अन्तिम स्वीकृति प्राप्त होने पर उसकी एक प्रतिलिपि आगामी आवश्यक कार्यवाही के लिए तुरन्त इस कार्यालय को प्रेषित करें।
3. M/s Seraj Hydro Power Developers, Admin Office House no. 123, Ward No. 5 Raghunathpur Kullu (HP) को सूचनार्थ एवं आगामी आवश्यक कार्यवाही हेतु प्रेषित है।

(आशुतोष गर्ग, भा0प्र0से0)

**उपायुक्त कुल्लू।**



**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: 18-02-2022

### Check List Serial Number -10

#### JUSTIFICATION FOR LOCATING THE PROJECT IN FOREST AREA

The catchment area of stream above the diversion structure mainly comprises of forest land. The slope of stream from 1:20 to 1:60 which is an ideal condition for Hydro Power Electric generation. The natural regime of the stream is not being disturbed as a raised crested weir with non overflow and overflow section has been proposed and the water after generation of electric power would be released back into the river.

No other viable alternative is available for the project, so it has to be as such be located in the forest land. Before finalizing this layout, three alternatives have been explored and forest area with minimum no. of trees is selected, keeping in view the other technical parameters required for the construction of the project. The same has also been certified by the concerned Divisional Forest Officer and Sub Divisional Officer (Civil) during the joint inspection of the project site on dated 27-04-2021 ( certificate enclosed on Page No.....)

Though three routes were considered. For selection of the best alternate, overall forest area, number of trees and length in forest area involved in Alternative-I are comparatively minimum, hence the same was finalized.

Date: 18/2/2022

Place: Kullu

Authorized Signatory

M/s Seraj Hydro Power Developers  
M/S SERAJ HYDRO POWER DEVELOPERS  
Authorized Signatory

Range Forest Officer  
Forest Range Naggar

Countersigned By:-

Divisional Forest Officer  
Divisional Forest Officer  
Kullu Forest Division, Kullu

Kullu Forest Division Distt, Kullu H.P.

**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: 18-02-2022

### **CHECK LIST SERIAL NUMBER-11**

#### **CERTIFICATE FOR MINIMUM USE OF FORESTLAND**

This is to certify that the forest area involved in the proposal is unavoidable and barest minimum i.e. 0.7995 hac. Which is proposed diversion for construction of 2.00 MW SAJLA SHEP.

Date: **18/2/2022**

Place: **Kullu**

Authorized Signatory

**M/s Seraj Hydro Power Developers**  
M/S SERAJ HYDRO POWER DEVELOPERS

**Authorized Signatory**

**Countersigned By:-**

**Divisional Forest Officer**  
Divisional Forest Officer  
**Kullu Forest Division, Kullu**  
Kullu Forest Division Distt. Kullu H.P.

**Range Forest Officer**  
Range Forest Officer  
**Forest Range Naggar**



ALTERNATE-

*P. B. B.*  
Range Forest Officer  
Forest Range Naggar

M/S Serial / Developer Developers  
Authorized Signatory

NAME OF DEVELOPER:	M/S SRIJAY HYDRO POWER DEVELOPERS
NAME OF PROJECT:	SALALA SHED 200MW
CAPACITY OF PROJECT:	200MW
DESIGNED BY:	KISHORE LAL DOUGLA
DESIGNED BY:	RANJESH KUMAR
CHECKED BY:	RAJESH KUMAR
NAME OF CONSULTANT:	RAJESH KUMAR (P/E: NO-22-341)



**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: **19-02-2022**

#### Observations

From the above comparative analysis Route -2&3 have not been found suitable for the Diversion of .7995 Ha. of total land for Construction of Sajla SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.) due to following reasons;

**Alternate 2;** Forest area involved in this route is maximum road accessibility in this route is almost nil in 70% route. Maximum tree cutting is involved in this route. Construction cost will be highest in this route. Forest land diversion cost will be very high, although there will be less inhabitants and agriculture land, involvement.

**Alternate 3;** This is the longest alternative route, Development & construction cost will be on higher side, road accessibility is low as compared to Route-1, soil type is not suitable for construction.

#### Recommendations

The Alternate-1 is recommended for the Diversion of .7995 Ha. of total land for construction of Sajla SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

1. This route is the shortest
2. All the components are on safe places.
3. Least no. of trees under cutting/trimming as compare to other routes.
4. Forest /Govt. land involvement is least in this route
5. This line route has been so selected that majority of components locations are on safe locations, reducing thereby proximity to the forest area, habitations, and religious place
6. Most of the components is accessible from vehicular roads.
7. This alternate is geologically suitable for the construction of various components.

**M/s Seraj Hydro Power Developers**

**Authorized Signatory**

**Range Forest Officer  
Forest Range Naggar**

**Divisional Forest Officer  
Kullu Forest Division, Kullu**

(3rd Alignment) Rejected

**ABSTRACT OF TREES TO BE FELLED**  
(UNDER FOREST RANGE NAGAR)

## A- FELLING

(UNDER FOREST RANGE NAGARI)																									
Sr.N o.	Local Name	Botanical Name	Sapling		V		IV		III		IIA		IIB		IA		IB		IC		ID		TOTAL		
			No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	
Roads																									
1	Kail	Pinus Wallichiana	2	0.2			2	0.8										1	5.1	1	6.3			6	12.4
2	Popular	Populus Ciliara					1	0.7	2	2.8	2	5.6											5	9.1	
G.Total																									
1	Kail	Pinus Wallichiana	2	0.2																			6	12.4	
2	Popular	Populus Ciliara	0	0					2	2.8													5	9.1	
SUB TOTAL			2	0.2	0	0	0	0	2	2.8	0	0	0	0	0	0	0	0	0	0	0	0	11	21.5	

*[Signature]*  
I/C, Khakhnai

*[Signature]*  
Block Forest Officer  
Khakhnai

*[Signature]*  
Range Forest Officer  
Forest Range Nagargar

*[Signature]*  
Divisional Forest Officer  
Kullu Forest Division, Kullu

(3rd Alignment) Rejected

**ENUMERATION LIST OF TREES COMING IN THE FINAL ALIGNMENT OF  
SAJLA SHEP (2.00 MW) IN PADRI CHALON DPF IN  
KHAKHNAL BEAT OF NAGAR RANGE KULLU FOREST DIVISION OF DISTT. KULLU (HP)**

S/No.	Species		Dia	Class	Volume	Remarks
	Local Name	Botanical name				
1	Kail	Pinus Wallichiana	25-28	IV	0.40	Green Standing
2	Popular	Populus Ciliara	44-48	IIA	2.80	Green Standing
3	Popular	Populus Ciliara	36-38	III	1.40	Green Standing
4	Kail	Pinus Wallichiana	80-84	IC	6.30	Green Standing
5	Popular	Populus Ciliara	45-47	IIA	2.80	Green Standing
6	Popular	Populus Ciliara	25-27	IV	0.70	Green Standing
7	Popular	Populus Ciliara	6-8	III	1.40	Green Standing
8	Kail	Pinus Wallichiana	7-9	Sapling	0.10	Sapling
9	Kail	Pinus Wallichiana	72-75	IB	5.10	Green Standing
10	Kail	Pinus Wallichiana	27-29	IV	0.40	Green Standing
11	Kail	Pinus Wallichiana	5-7	Sapling	0.10	Sapling

*(Signature)*  
C/C Khakhal

*(Signature)*  
Block F  
Khakhal

*(Signature)*  
Range Officer  
Forest Division, Nagar

*(Signature)*  
Divisional Forest Officer  
Kullu Forest Division, Kullu



**ABSTRACT OF TREES TO BE FELLED  
(UNDER FOREST RANGE NAGAR)**

(2nd Alignment) Rejected

**A- FELLING**

(UNDER FOREST RANGE NAGAR)																									
Sr.N	Local Name	Botanical Name	Sapling		V		IV		III	IIA		IIB		IA		IB		IC		ID	TOTAL				
O.			No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.	No.	Vol.			
Roads																									
1	Kail	Pinus Wallichiana	1	0.1			2	0.8									1	5.1				4	6		
2	Popular	Populus Ciliara					1	0.7	2	2.8	2	5.6									5	9.1			
G.Total																									
1	Kail	Pinus Wallichiana	1	0.1																		4	6		
2	Popular	Populus Ciliara	0	0					2	2.8											5	9.1			
SUB TOTAL																									
SUB TOTAL			1	0.1	0	0	0	0	2	2.8	0	0	0	0	0	0	0	0	0	0	0	9	15.1		

*[Signature]*  
I/C Khakhnal

BO  
*[Signature]*  
Block Forest Officer  
Khakhnal

*[Signature]*  
Range Forest Officer  
Forest Range Nagar  
RFO Nagar

*[Signature]*  
Divisional Forest Officer  
Kulu Forest Division, Kulu

(2nd Alignment) Rejected

**ENUMERATION LIST OF TREES COMING IN THE FINAL ALIGNMENT OF  
SAJLA SHEP (2.00 MW) IN PADRI CHALON DPF IN  
KHAKHNAL BEAT OF NAGAR RANGE KULLU FOREST DIVISION OF DISTT. KULLU (HP)**

S/No.	Species		Dia	Class	Volume	Remarks
	Local Name	Botanical name				
1	Popular	Populus Ciliara	45-47	IIA	2.80	Green Standing
2	Popular	Populus Ciliara	44-48	IIA	2.80	Green Standing
3	Popular	Populus Ciliara	36-38	III	1.40	Green Standing
4	Kail	Pinus Wallichiana	25-28	IV	0.40	Green Standing
5	Popular	Populus Ciliara	25-27	IV	0.70	Green Standing
6	Popular	Populus Ciliara	6-8	III	1.40	Green Standing
7	Kail	Pinus Wallichiana	72-75	IB	5.10	Green Standing
8	Kail	Pinus Wallichiana	27-29	IV	0.40	Green Standing
9	Kail	Pinus Wallichiana	5-7	Sapling	0.10	Sapling

  
I/C Khakhnal

  
Block Forest Officer  
Khakhnal

  
Range Forest Officer  
RKO Nagar

  
Divisional Forest Officer  
Kullu Forest Division, Kullu

**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: 18-02-2022

### **CHECK LIST SERIAL NUMBER- 12**

#### **UNDERTAKING FOR PAYMENT OF COST OF COMPENSATORY AFFORESTATION**

I Managing Partner of M/S M/S SERAJ HYDRO POWER DEVELOPERS, hereby, undertake to pay the entire amount of compensatory a forestation in lieu of forest area for the Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.) as per the prevailing wage rates at the time of undertaking the plantation activities.

Date: 18/2/2022

Place: Kullu

Authorized Signatory

M/S Seraj Hydro Power Developers  
M/S SERAJ HYDRO POWER DEVELOPERS

Authorized Signatory

Countersigned By:-

Divisional Forest Officer  
Kullu Forest Division, Kullu

Kullu Forest Division Distt. Kullu H.P.

Rangaswami  
22/2



**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: 18-02-2022

### CHECK LIST SERIAL NUMBER- 13

#### UNDERTAKING FOR PAYMENT OF NET PRESENT VALUE OF FOREST AREA

It is to certify that I Managing Partner of M/S M/S SERAJ HYDRO POWER DEVELOPERS has applied for the Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.) I hereby, undertake to pay the Net Present Value (NPV) of the above forest land.

Date: **18/2/2022**

Place: **Kullu**

Authorized Signatory

**M/S Seraj Hydro Power Developers**

**M/S SERAJ HYDRO POWER DEVELOPERS**

**Authorized Signatory**

**Range Forest Officer**  
**Forest Division, Manali**

**Countersigned By:-**

**Divisional Forest Officer**  
**Kullu Forest Division, Kullu**

**Kullu Forest Division Distt. Kullu H.P.**

**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. FP/HP/HYD/150023/2021


Date of Proposal: 18-02-2022

**UNDERTAKING FOR PAYMENT OF ADDITIONAL NET PRESENT VALUE OF FOREST  
AREA**

It is to certify that I Managing Partner of M/S M/S SERAJ HYDRO POWER DEVELOPERS has applied for the Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.) I hereby, undertake to pay the Additional amount of Net Present Value (NPV) of the above forest land.

Date: 18/2/2022

Place: Kullu

Authorized Signatory   
M/s SERAJ HYDRO POWER DEVELOPERS  
Authorized Signatory

  
Countersigned By:-

Divisional Forest Officer  
Kullu Forest Division, Kullu  
Kullu Forest Division Distt. Kullu H.P.

Range Forest Officer  
Forest Range Officer  
Forest Range Officer

**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: 18-02-2022

#### Check list no -14

#### UNDERTAKING FOR SUBMISSION OF FRA

I Managing Partner of M/S SERAJ HYDRO POWER DEVELOPERS hereby, undertake to obtain & supply the certificate regarding settlement of forest right in r/o schedule tribes and forest dwellers as per FRA 2006 from Deputy Commissioner Kullu H.P for further processing of the case.

Date: 18/2/2022

Place: Kullu

Authorized Signatory

M/S SERAJ HYDRO POWER DEVELOPERS

Authorized Signatory

Range Forest Officer  
Forest Division, Manali

Countersigned By:-

Divisional Forest Officer  
Kullu Forest Division, Kullu

Kullu Forest Division Distt. Kullu H.P.

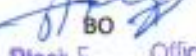


Final Alignment

**ENUMERATION LIST OF TREES COMING IN THE FINAL ALIGNMENT OF  
SAJLA SHEP (2.00 MW) IN PADRI CHALON DPF IN  
KHAKHNAL BEAT OF NAGAR RANGE KULLU FOREST DIVISION OF DISTT. KULLU (HP)**

S/No.	Trees no.	Species		Dia	Class	Volume	Remarks
		Local Name	Botanical name				
1	1/22	Kail	Pinus Wallichiana	7-9	Sapling (Kail)	0.10	Sapling
2	2/22	Popular	Populus Ciliara	36-38	III	1.40	Green Standing
3	3/22	Popular	Populus Ciliara	6-8	Sapling (Popular)	0.30	Sapling
4	4/22	Kail	Pinus Wallichiana	8-10	Sapling (Kail)	0.10	Sapling
5	5/22	Kail	Pinus Wallichiana	5-7	Sapling (Kail)	0.10	Sapling

  
I/C Khakhnal

  
BO  
Block F Officer  
Khakhnal

  
Range Forest Officer  
RFD Nagar

  
Divisional Forest Officer  
Kullu Forest Division, Kullu



Species-wise local/scientific names and girth-wise enumeration of trees													
sr. No.	Name of Land	Species names (Local)	Botanical Name	Girth in cm.									
				0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	more than 1
1	(DPF) Padri Chalon (C-III)	Kail	Pinus Wallichiana	3	-	-	-	-	-	-	-	-	3
2	(DPF) Padri Chalon (C-III)	Poplar	Populus Ciliara	1	-	-	1	-	-	-	-	-	2
Total				4	0	0	1	0	0	0	0	0	5

Ranger Forest Officer  
Forest Range Naggar

Divisional Forest Officer  
Kullu Forest Division, Kullu

Block Forest Officer  
Khaktinal



**BILL**

Cost of Trees coming in the diversion of forest land in favour of M/s Seraj Hydro Power Developers for the construction of SAJLA SHEP (2.00 MW) of Nagar Forest Range, Forest Division Kullu, Distt. Kullu H.P.

Sr. No.	Species	Scientific Name	Class	No.	Volume (cum)	Rate (per cum)	Amount
1	Popular	Populus Ciliata	III	1	1.4		
		<b>TOTAL</b>		<b>1</b>	<b>1.4</b>	<b>2815</b>	<b>3941</b>
2	Sapling	Kail		3	0.3	61669	18501
		Popular		1	0.3	2815	845
		<b>TOTAL</b>		<b>4</b>	<b>0.6</b>		<b>19345</b>
		<b>SUB TOTAL</b>		<b>5</b>	<b>2</b>		<b>23286.2</b>
10% Increase of market rate							2329
<b>TOTAL</b>							<b>25615</b>
Income Tax 2.575 % on price							660
S/Charge 3%							20
<b>G.TOTAL</b>							<b>26294</b>
<b>Twenty Six Thousand Two Hundred And Ninety Four Rupees Only</b>							

*[Signature]*  
**Range Forest Officer**  
**Forest Range Naggar**  
 Forest Range Naggar

*[Signature]*  
**Divisional Forest Officer**  
**Kullu Forest Division, Kullu**  
 Forest Division Kullu

**Full Title Of The Project:** Diversion of 0.7995 ha. of Forest land in favour of Seraj Hydro Power Developers for construction of Sajla SHEP 2.00 MW within the jurisdiction under Naggar Range, Kullu Forest Division Kullu District Kullu, HP.

**File No:** FP/HP/HYD/150023/2021  
**Date Of Proposal:** 18/02/2022

**CHECK LIST SERIAL NUMBER: 16**

**SITE INSPECTION REPORT NOT BELOW THE RANK OF DCF**  
*(For the Forest land to be diverted under FCA)*

A proposal has been received by this office from Seraj Hydro Power Developers for diversion (under FCA-1980) of 0.7995 ha of forest land for non-forestry purpose. The subject envisages the use of forest land for construction of Sajla SHEP 2.00 MW within the jurisdiction under Naggar Range, Kullu Forest Division Kullu District Kullu, HP. The site inspection of the land involved in the proposal has been done by me on dated 15/06/2022.

On inspection of the site, it is found that the land required by the user agency is a forest measuring 0.7995 ha.

The requirement of forest land as proposed by the user agency in Col. 2 of part-I is unavoidable and is barest minimum required for the proposed project.

Whether any rare/ endangered/ unique species of flora and fauna found in the area. If so, the details thereof. - No-

Whether any protected archaeological/ heritage site/ defence establishment or any other important monument is located in the area. If so, the details thereof with NOC from competent authority, if required. - No-

☒ The user agency has not violated the provisions of Forest (Conservation) Act, 1980 and no work has been started without proper sanction.

☒ It has been found that the user agency has violated the Forest (Conservation) Act, 1980 provisions. A detailed report as per para 1.9 of Chapter 1, Part C of Hand book of Forest (Conservation) Act, 1980 is attached).

*(Note: Whichever of the above is applicable should be shown in bold letters)*

Proposal is recommended for diversion of 0.7995 ha. of Forest land in favour of Seraj Hydro Power Developers for construction of Sajla SHEP 2.00 MW within the jurisdiction under Naggar Range, Kullu Forest Division Kullu District Kullu, HP.

Place: Kullu

Date: 16/06/2022

Name: Angel Chauhan, HPFS

Designation : Divisional Forest Officer,  
Kullu Forest Division, Kullu.

Office Seal .....

**Divisional Forest Officer**  
Kullu Forest Division, Kullu



**Full Title of Project:** Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

File No. :

Proposal No. : FP/HP/HYD/150023/2021

Date of Proposal : 18/2/2022

### CHECK LIST SERIAL NUMBER: 17

#### LOCATION MAP

Location Map of Non Forest/Degraded Forest Area identified for Compensatory Afforestation in lieu of proposal for diversion of  $0.7995 \times 2 = 1.599$  or say 1.60 ha. of forest land for the construction of *SAJLA SHEP(2.00 MW) SEHP* in **Kullu** District.

Village: **Sajla (Padri Chalon)**

Tehsil : **Manali**

District: **Kullu**

Forest Division;

**Kullu**

Forest Range:- **Nagar**

Block No./Compartment No./Survey No.: **-PADRI CHALON DPF-III**

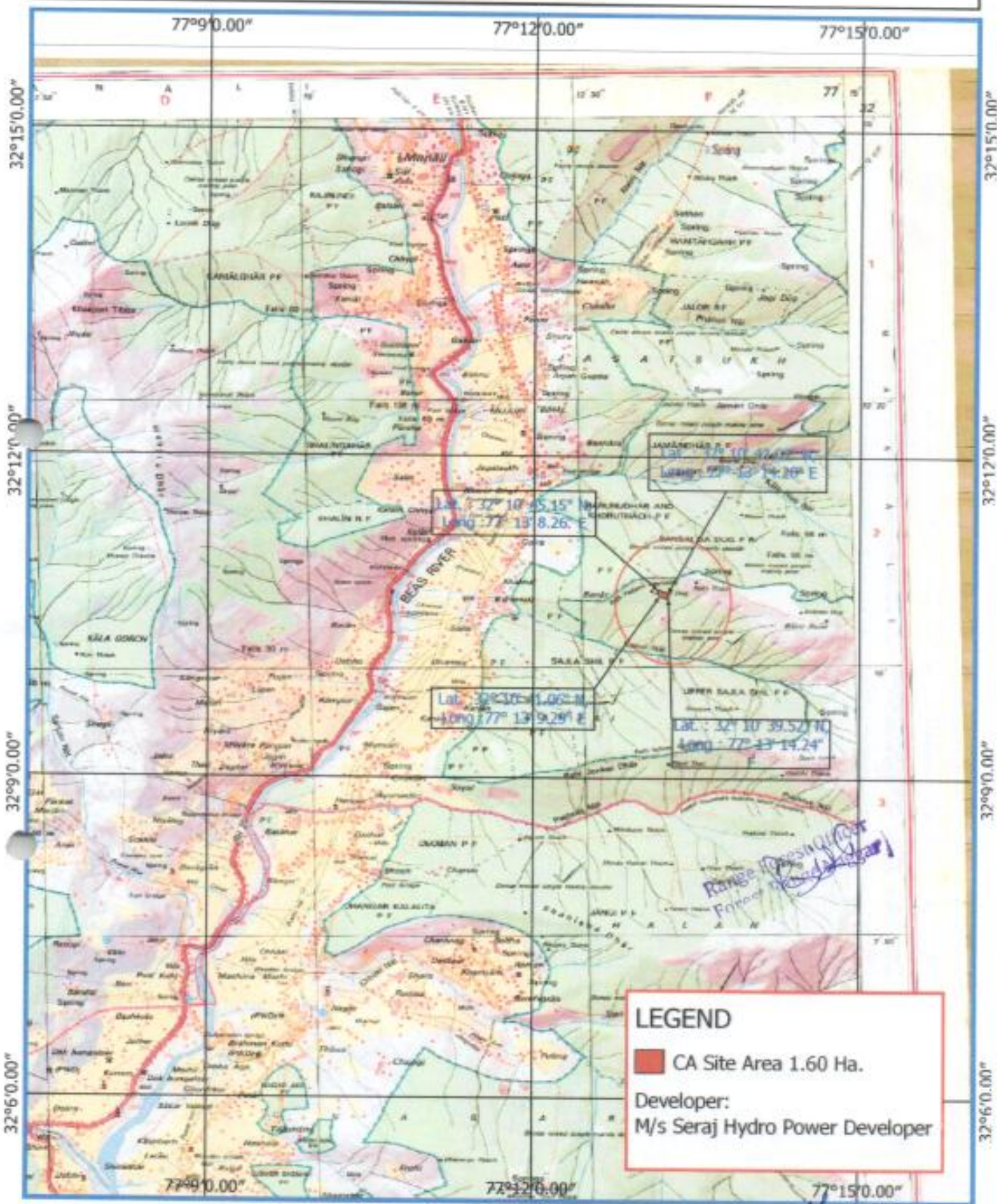
**Area: 1.60 Ha.**

Map attached of the area to be taken for Compensatory Afforestation

Range Forest Officer  
Nagar Forest Range

Divisional Forest Officer  
Kullu Forest Division, Kullu  
Divisional Forest Officer  
Kullu, District Kullu, H.P.

**Toposheet Map of Proposed CA Site Area 1.60 Ha. for the Construction on Sajla SHEP (2.0 MW) SHEP in Padri Chalaon in Khakhnal Beat in Nagar Forest Range Distt. Kullu H.P.**



**LEGEND**

CA Site Area 1.60 Ha.

Developer:  
M/s Seraj Hydro Power Developer

Scale : 0 500 1,000 1,500 2,000 m



Divisional Forest Officer  
Kullu Forest Division, Kullu

Toposheet Map of Proposed CA Site Area 1.60 Ha. for the Construction on Sajla SHEP (2.0 MW) SHEP in Padri Chalaon in Khakhnal Beat in Nagar Forest Range Distt. Kullu H.P.



Digital map Proposed CA Site (Area 1.60 ha.) For Sajla SHEP (2.0 MW) in Padri Chalon in Khakhal Nagar Forest Range at Forest Division Kullu (HP)



**Full Title of Project:** Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

File No. :

Proposal No. : FP/HP/HYD/150023/2021

Date of Proposal : 18/2/2022

**CHECK LIST SERIAL NUMBER 18**  
**"SCHEME FOR COMPENSATORY AFFORESTATION"**

Detailed Scheme for Compensatory Afforestation to be carried diversion of forest land  $0.7995 \times 2 = 1.599$  or say 1.60 ha. for the construction of SAJLA (2.00 MW) SEHP with in jurisdiction under Nagar Range, Forest division Kullu.

1. Details of degraded forest land/ non forest land:-

Village:- **Sajla (Padri Chalon)** Tehsil:- **Manali** District:- **Kullu**

Name of Forest Division:- **Kullu** Range:- **Nagar**

Block/ Compartment/ Survey No. **PADRI CHALON DPF-III**

Area to be afforested:- **1.60 Ha.**

2. Description of area:-

- i. Whether the site selected for compensatory afforestation is a land bank or not:- **Yes**
- ii. If the CA site is other than the land bank, reasons be given:- **No**
- iii. In case of non forest area identified in from A, then what is the distance of CA site from the adjoining forest boundary :-
- iv. Soil type:- **loamy**
- v. Topography :- a) Hilly  
b) **Medium**
- vi. Whether the area is bearing any root stock of vegetation:- **yes**



Copy of the approved compensatory afforestation scheme/model showing component wise physical and financial break up is enclosed .

3. Schedule of Plantation Programme:-

Detail of year wise break up of requirement of funds is as under:-

Detail of year wise break up of requirement of funds is as under :-		
Sr. No.	Year	Rate
	New Plantation	109300
1	1st Year Maintenance	16600
2	2nd Year Maintenance	13460
3	3rd Year Maintenance	10350
4	4th Year Maintenance	10350
5	5th Year Maintenance	10350
6	6th Year Maintenance	10350
7	7th Year Maintenance	10350
8	8th Year Maintenance	10350
9	9th Year Maintenance	10350
10	10th Year Maintenance	10350
Grand Total		222160
Area to be taken for Compensatory Afforestation (0.7995 Hectare X 2 Times)		0.7995 Ha.
Area to be taken for Compensatory Afforestation (0.7995 Hectare X 2 Times)		1.599
Or Say		1.60 ha.
Tree to be Planted Per Hectare		1000
Tree to be Planted In Total Compensatory Afforestation Area		1600
Cost of Compensatory Afforestation		355456
Add 17.50 % Departmental Charged		62204.80
Add 5% contingency charges		17772.8
Grand Total		435433.60
Or Say		435440



#### 4. Technical details:-

Technical details of compensatory afforestation scheme are as follows:-

- a) **General Details:** - The land bank indentified in Khakhnal Block. is bank patches where coniferous species will be planted at the pit 30x30X30 cm size respectively. The area will be protected by barbed wire fencing .

b) **Spacing :-**

Coniferous Deo 3X3 mtr

- (c) **Species :-** Coniferous
- (d) **Plantation Method:-** Contour Planting.
- (e) **Soil Moisture Conservation Works:-** M.R.I. included in the C.A
- (f) **Protection ( Fencing , Watchman, People's Participation etc.)**
- (g) **Proposed Monitoring Mechanism :-** Department .
- (h) **Any other information :-** Nil

Forest Range Officer  
Nagar Forest Range

  
Divisional Forest Officer  
Kullu, District Kullu, H.P.

## Check List Sr. No-18

Detailed Scheme for Compensatory Afforestation to be carried out for the diversion of 0.7995 hac of forest land for the construction of SAJLA (2.00 MW) SHP within the jurisdiction under Forest Range Nagar, Forest Division Kullu. (Total 1600 trees / plants to be planted over 1.60 hectare). (COST MODEL: 1000 PLANTS PER HECTARE)

Sr. No.	Particulars of Works	Unit	Qty.	Mandays involved	Amount at wage rate of Rs. 350/- for non Tribal areas.
<b>A</b>	<b>Survey, Demarcation &amp; Fencing</b>				
1	Survey and demarcation of plantation area	Hec.	1	0.67	234.50
2	Preparation/ Purchase of RCC fence post	Nos.	50	Rs.358.00 per No.	17900.00
3	Carriage of RCC Fence Post upto 165 cm long over a distance of 2KM uphill/downhill	Nos.	50	22.33	7815.50
4	Preparation/Digging of holes of 20x30x50cm for fixing of fence	Nos.	50	3.02	1057.00
5	Fixing of RCC fence posts in concrete i/c strutting	Nos.	50	2.39	836.50
6	Carriage of B/wire over distance 2Km uphill/downhill	per Km per qntl.	0.75	0.74	259.00
7	Stretching and fixing of Barbed wire in 4 stands	Rmt.	600	19.2	6720.00
8	Interlacing of thorny bushes along the fence	Rmt.	150	4.09	1431.50
9	Cost of Barbed wire	Qntl.	0.75	Rs.6510.00 per Qntl.	4882.50
<b>Total-A/Survey, Demarcation &amp; Fencing</b>					<b>41136.50</b>
<b>Or Say</b>					<b>41140.00</b>
<b>B</b>	<b>Planting</b>				
1	Bush cutting in strip (3mX3m)	Hec.	1	7.95	2782.50
2	Digging of pits of 45x45x45cm size	Nos.	1000	63.60	22260.00
3	Filling of pits of 45x45x45cm size	Nos.	1000	18.13	6345.50
4	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	1000	25.33	8865.50
5	Planting of plants raised in P/bags	Nos.	1000	14.53	5085.50
6	Construction of Inspection Path	Rmt.	100	7.33	2565.50
7	Cost of Sign Board, Carriage & Fixing	No.	1	LS	450.00
<b>Total:- B/Planting</b>					<b>48354.50</b>
<b>Or Say</b>					<b>48360.00</b>
<b>C</b>	<b>Cost of P/bags plants</b>	Nos.	1000	19.78	19780.00
<b>Total Cost of New Plantation (A+B+C)</b>					<b>109280.00</b>
<b>Or Say</b>					<b>109300.00</b>
<b>D</b>	<b>1st Year Maintenance ( 30% Beating up)</b>				
1	Re-digging of pits 45x45x45 cm	Nos.	300	9.53	3335.50
2	Filling of pits 45x45x45cm	Nos.	300	5.43	1900.50
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill/plant	Nos.	300	4.36	1526.00
4	Planting of plants raised in P/bags	Nos.	300	7.60	2660.00
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	300	19.78	6923.00
<b>G. Total</b>					<b>16597.00</b>
<b>Or Say</b>					<b>16600.00</b>



2nd Year Maintenance (20% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	200	6.36	2226.00
2	Filling of pits 45x45x45cm	Nos.	200	3.62	1267.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	200	2.90	1015.00
4	Planting of P/bags plants	Nos.	200	5.06	1771.00
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	No.	200	19.78	6923.00
G. Total					13454.00
Or Say					13460.00
3rd Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
Total					10346.00
Or Say					10350.00
4th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
Total					10346.00
Or Say					10350.00
5th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
Total					10346.00
Or Say					10350.00
6th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
Total					10346.00
Or Say					10350.00
7th Year Maintenance (10% Beating up)					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
Total					10346.00
Or Say					10350.00



<b>8th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>9th Year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>10th year Maintenance (10% Beating up)</b>					
1	Re-digging of pits 45x45x45 cm	Nos.	100	3.18	1113.00
2	Filling of pits 45x45x45cm	Nos.	100	1.80	630.00
3	Carriage of plants in P/bags over distance 2 Km uphill/downhill.	Nos.	100	1.45	507.50
4	Planting of P/bag plants	Nos.	100	2.63	920.50
5	Repair of fencing	Rmt.	60	0.72	252.00
6	Cost of P/bags plants	Nos.	100	19.78	6923.00
<b>Total</b>					<b>10346.00</b>
<b>Or Say</b>					<b>10350.00</b>
<b>Total:- D/Maintenance Cost of 10 years</b>					<b>112860.00</b>
<b>Total Cost of New Plantation + Maintenance for 1000 plants per Hectare</b>					<b>222160.00</b>
Area to be taken for Diversion (In Hectare)					0.7995
Area to be taken for Compensatory Afforestation (0.7995Hectare X 2 Times)					1.5990
<b>Or Say</b>					<b>1.6000</b>
Tree to be Planted Per Hectare					1000
Tree to be Planted In Total Compensatory Afforestation Area					1600
Cost of Compensatory Afforestation					<b>355456.00</b>
<b>Total</b>					<b>355456.00</b>
Departmental Charges @ 17.50%					62204.80
Contingency charges @ 5%					17772.80
<b>Grand Total</b>					<b>435433.60</b>
<b>Or Say</b>					<b>435440.00</b>
<b>(Rupees Four Lakhs Thirty Five Thousand Four Hundred And Forty Only)</b>					

*Ranger Forest Officer*  
*Ranger Forest Officer,*  
*Nagar Forest Range*

*Divisional Forest Officer*  
*Kullu Forest Division, Kullu*  
*Kullu, Distt. Kullu (HP)*

**Full Title of Project:** Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

**File No.** :

**Proposal No.** : FP/HP/HYD/150023/2021

**Date of Proposal** : 18/02/2022

## CHECK LIST SERIAL NUMBER: 20


### "LAND SUITABILITY CERTIFICATE BY DFO (T)"

This is to certify that **1.60 ha.** land bearing Survey No./ Compartment No **Padri Chalon** **DPF-III** of village **Sajla ( Padri Chalon)** Tehsil **Manali** District **Kullu** , HP identified for Compensatory Afforestation is suitable for plantation from management point of view and is free and all sorts of encumbrances and encroachments. The density of vegetation of proposed CA area is 0 % which is open forest and no plantation has been carried out in the proposed CA site in past.

Place :Kullu

Dated : 18/02/2022

  
Forest Range Officer  
Nagar Forest Range  
Forest Range Naggar

  
Divisional Forest Officer  
Kullu Forest Division, Kullu  
Divisional Forest Officer  
Kullu, District Kullu, H.P.

**Full Title of Project:** Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

**File No.** :

**Proposal No.** : FP/HP/HYD/150023/2021

**Date of Proposal** : 18/2/2022

### LAND BANK CERTIFICATE

In respect of diversion of diversion of  $0.7995 \times 2 = 1.599$  or say **1.60 ha.** forest land for the *construction of SAJLA SHEP (2.00 MW) SEHP* in **Kullu** District, Forest Range Nagar., Forest Division Kullu

Certified that 1.60 hec. area selected for CA in **Padri Chalon** is an identified compact land bank. The area is suitable from protection and management point of view.

Range Forest Officer  
Forest Range Nagar  
Nagar Forest Range

  
Divisional Forest Officer  
Kullu Forest Division, Kullu  
Divisional Forest Officer  
Kullu, District Kullu, H.P.



**Certificate of Non-Availability of land for Compensatory Afforestation in the District Kullu.**

No: .....1190...../DRA

Dated: ...14/7/2021...

I, Ashutosh Garg, Collector of District Kullu do hereby certify that:

- (i) Relevant records pertaining to non-forest land, revenue lands, *zudpi jungle, chhote jhar ka jungle, bade jhar ka jungle, jhari-land, civil-soyam* lands and all other such categories of forest lands (except the forest land under management and administrative control of the Forest Department) on which the provisions of Forest (Conservation) Act, 1980 are applicable, available in each Sub-Division of this District have been examined; and
- (ii) I have also conducted such further enquiry as is required to satisfy myself for issue of this certificate.

On the basis of examination of all relevant records and such further enquiry, as was required for issue of this certificate, I do hereby certify that non-forest land, revenue lands, *zudpi jungle, chhote jhar ka jungle, bade jhar ka jungle, jungle jhari-land, civil-soyam* lands and all other such categories of forest lands (except the forest land under management and administrative control of the Forest Department) on which the provisions of Forest (Conservation) Act, 1980 are applicable, which as per the extant guidelines of the Central Government may be utilized for creation of compensatory afforestation in lieu of forest land diverted for non-forest purpose, is not available in the entire Kullu District. This Certificate is being issued in favour of M/s Seraj Hydro Power Developers, Admin Office House no. 123, Ward No. 5 Raghunathpur Kullu (HP), for construction of Sajla Small Hydro Electric Project (2MW) in Tehsil Manali, District Kullu (HP) under jurisdiction of Divisional Forest Officer, Kullu, Forest Division Kullu, District Kullu (HP) for which 00-79-96 hectare Forest land is acquired in Tehsil Manali, District Kullu (HP).

Issued under my hand and seal on this 14<sup>th</sup> day of July, 2021.

*fl.*

Divisional Forest Officer  
Kullu Forest Division, Kullu

(Ashutosh Garg, IAS)  
District Collector  
Kullu

**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:


Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: **18/2/2022**

### Check List No 28

#### Dumping Sites and Reclamation Plans

There is muck Generation, hence muck dumping sites are required. Detailed Reclamation plan along with Muck Dumping sites & their cross section has been attached.

Authorized Signatory  
  
**M/s Seraj Hydro Power Developers**  
 M/S SERAJ HYDRO POWER DEVELOPERS

Authorized Signatory

  
**Range Forest Officer**  
**Forest Range Naggar**

  
**Divisional Forest Officer**  
**Kullu Forest Division, Kullu**



**Detail of Muck Dumping sites in respect of Sajla 2.00 MW SHEP in Forest Range  
Nagar, Kullu Forest Division of Distt. Kullu (H.P.)**

Sr. No.	Name of Dumping Site	Location	Length in m	Width in m	Area in sqm	Height in m	Capacity of Dumping in cum	Remarks
1	Muck Dumping Site -1	Near Weir, D-Tank & Penstock	20	10	200	3	600.00	Forest Land
2	Muck Dumping Site -2	Near Penstock	20	8	160	3	480.00	Forest Land
3	Muck Dumping Site -3	Near Power House	30	10	300	4	1200.00	Forest Land
4	Muck Dumping Site -4	Near Approach Road to PH	30	5	150	4	600.00	Forest Land
5	Muck Dumping Site -5	Near Approach Road to PH	25	10	250	4	1000.00	Forest Land
	<b>Total</b>				<b>1060.00</b>		<b>3880.00</b>	

Date 18/12/202

Place - Kullu

M/s Serai Hydro Power developers

Authorized Signatory

Authorized Signatory

Range Forest Officer  
Forest Range Nagar

Divisional Forest Officer  
Kullu Forest Division, Kullu  
Kullu Forest Division, Kullu (HP)

## RECLAMATION MUCK GENERATED PLAN FOR SAJLA SHEP (2.00 MW)

Sr. No.	Name of Component from Where Muck is to be Produced	Provided Size of Land In sqm	Actual Size of Component in sqm	Total Qty. Of Muck is to be Produced in cum	Factor of increase in volume after excavation	Total Qty. of Muck to be Dumped on the basis of increased Qty in cum	Qty of Muck to be utilised (in cum)	Total Qty of Muck Remaining after Utilisation	Remarks
11	Diversion Weir	15 x 10	15 x 5	75.00	45%	108.75	38.06	70.69	Out of total muck generated, about 35% shall be used in construction of crates, protection of diversion weir, Water Conduity System, Gravel Tapper, Protection of desilting tank, construction of D Tank cum Forebay rest of the muck including swell factor (45%) shall be dumped in muck dumping sites 1
22	Gravel Tupper	5 x 3	5 x 2	15.00	45%	21.75	7.61	14.14	
33	Water Conductor System	5 x 3	5 x 0.8	2.40	45%	3.48	1.22	2.26	
44	D-Tank Cum Forebay	30 x 5	30 x 3	270.00	45%	391.50	137.03	254.48	
55	Scour Pipe	5 x 1	5 x 0.6	6.00	45%	8.70	4.35	4.35	50% of the , saddle supports and retaining walls to support penstock & muck generated from the Power House, Road and Transmission Line and Switchyard Shall Be used for levelling/filling of Power house and Switchyard area. Balance Muck including Swell Factor (45%) shall be dumped in site-2 to 5. 35% Muck Generated from Tail race shall be used for Protection work and Construction work of Tail Race. Balance Muck including Swell Factor (45%) shall be dumped in Muck Dumping site -5.
66	Penstock	2070 x 2	2070 x 0.6	422.28	45%	612.31	306.15	306.15	
77	Power House Cum Switch	40 x 20	35 x 15	1050.00	45%	1522.50	532.88	989.63	
88	Rail Race	25 x 2	25 x 1	37.50	45%	54.38	27.19	27.19	
99	Interconnection Point	10 x 8	8 x 5	120.00	45%	174.00	87.00	87.00	
10	Approach Road to PH	425 x 3	425 x 3	1912.50	45%	2773.13	1386.56	1386.56	
11	Transmission Line	426 x 0.6	426 x 0.6	255.60	45%	370.62	185.31	185.31	
20	<b>Total</b>			<b>1998.18</b>		<b>2897.36</b>	<b>1141.48</b>	<b>1755.88</b>	
							cum		
							cum		
							cum		
							cum		
							cum	TRUE	1755.88<3880

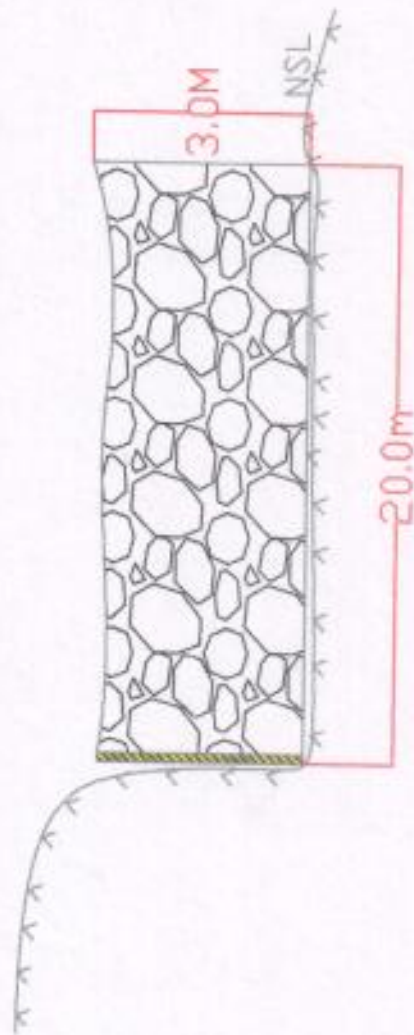
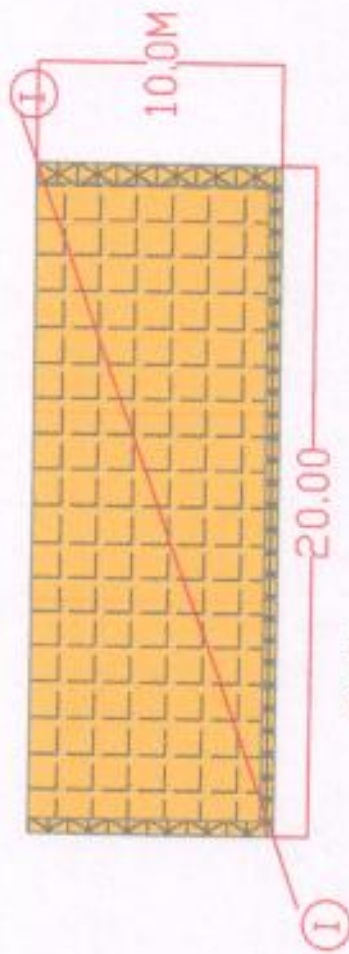
Water and Hydro Power Developers

Published Seminary

Range Forest Officer  
Forest Range Naggar

Divisional Forest Officer  
Kullu Forest Division, Kullu

KL



AREA-20.0MX10.0M

=200M<sup>2</sup>

H-3.0M

QTY=200.0M<sup>2</sup>X3.00M

=600M<sup>3</sup>

DETAIL OF MUCK

DUMPING SITE-I NEAR

DTANK CUM FOREBAY

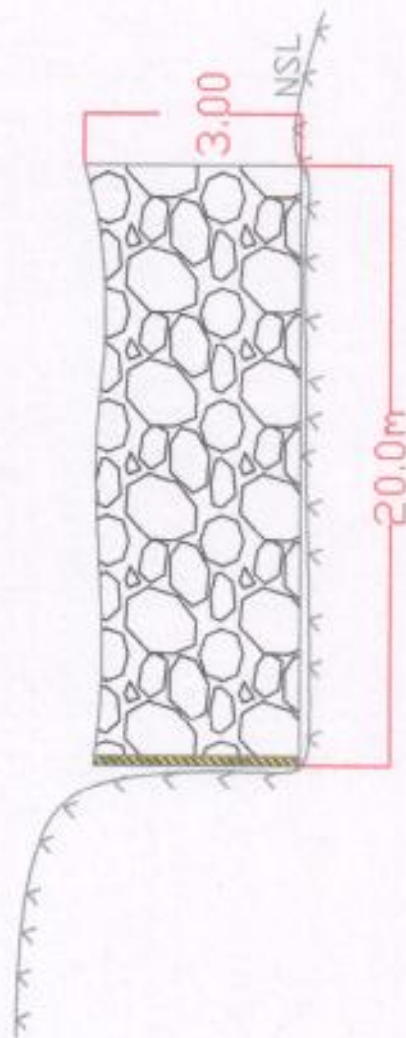
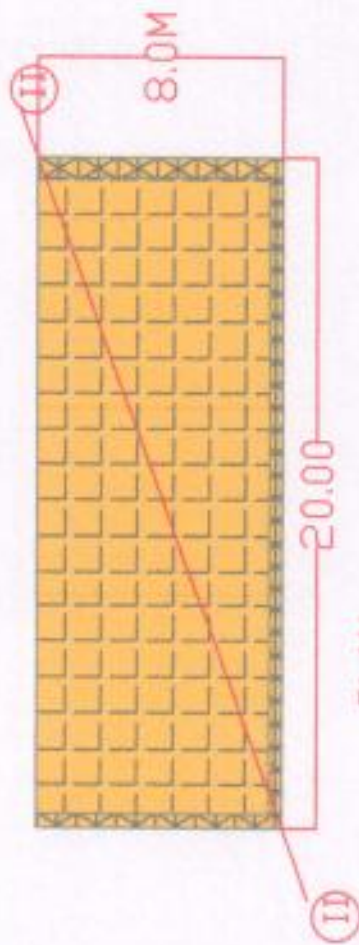
SAJALA SHEP 2.00MW

M/s Seraj Hydro Power Development

Authorized Signatory

Divisional Forest Officer  
Kullu Forest Division, Kullu





AREA-20.0MX8.0M

=160M<sup>2</sup>

H-3.00M

QTY=160.0M<sup>2</sup>X3.00M

=480M<sup>3</sup>

DETAIL OF MUCK

DUMPING SITE-II NEAR

PENSTOCK

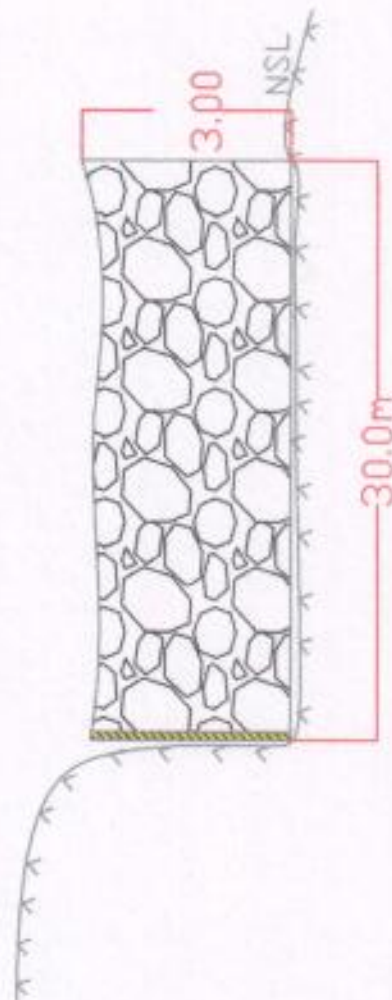
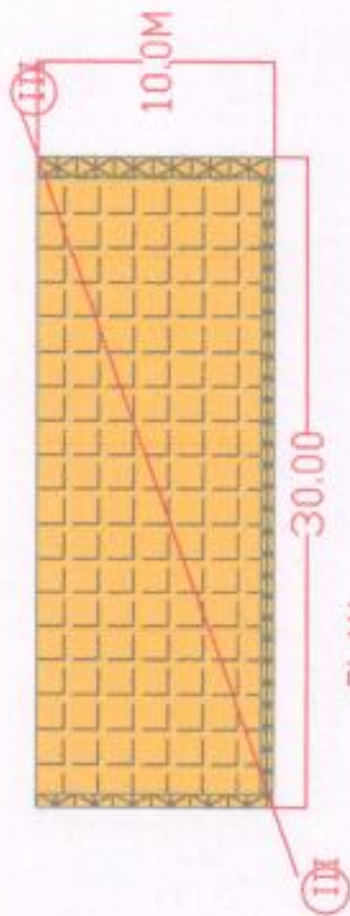
SAJALA SHEP 2.00MW

M/s Seraj Hydro Power Developers

Range Forest Officer  
Forest Range Officer

Authorized Signatory

Divisional Forest Officer  
Kullu Forest Division, Kullu



AREA-30.0MX10.0M

=300M<sup>2</sup>

H-4.00M

QTY=300.0M<sup>2</sup>X4.00M

=1200M<sup>3</sup>

DETAIL OF MUCK

DUMPING SITE-III

POWERHOUSE SITE

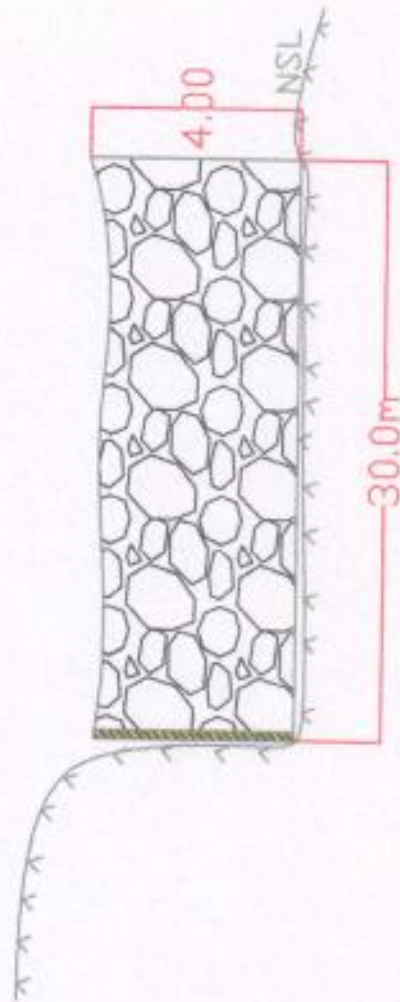
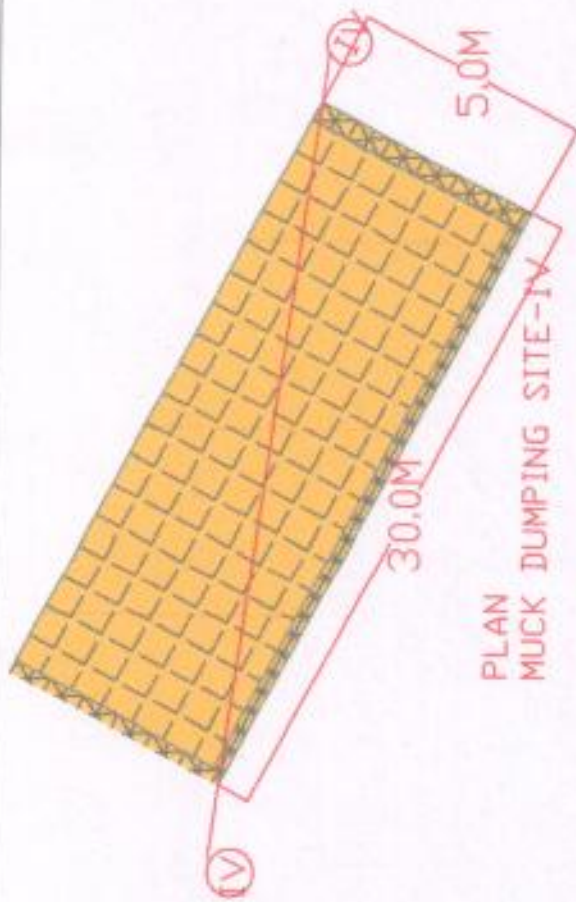
SAJALA SHEP 2.00MW

M/s Seraj Hydro Power Developers

Authorized Signatory

Kangra District Office  
Forest Department

Divisional Forest Officer  
Kullu Forest Division, Kullu



SECTION  
IV-IV

AREA-30.0MX5.0M  
=150M<sup>2</sup>  
H-4.0M  
QTY=150.0M<sup>2</sup>X4.00M  
=600M<sup>3</sup>

DETAIL OF MUCK  
DUMPING SITEIV  
NEAR  
APPROACH ROAD  
SAJALA SHEP 2.00MW

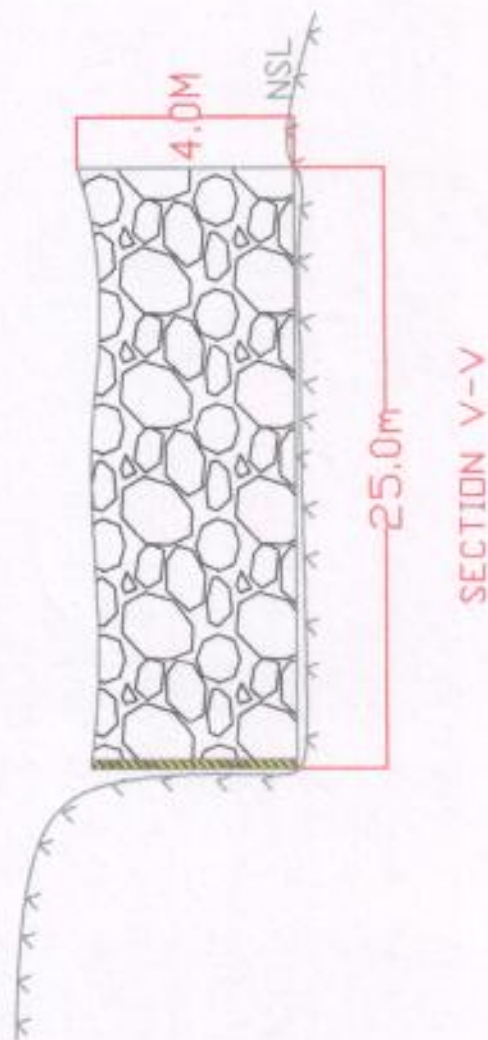
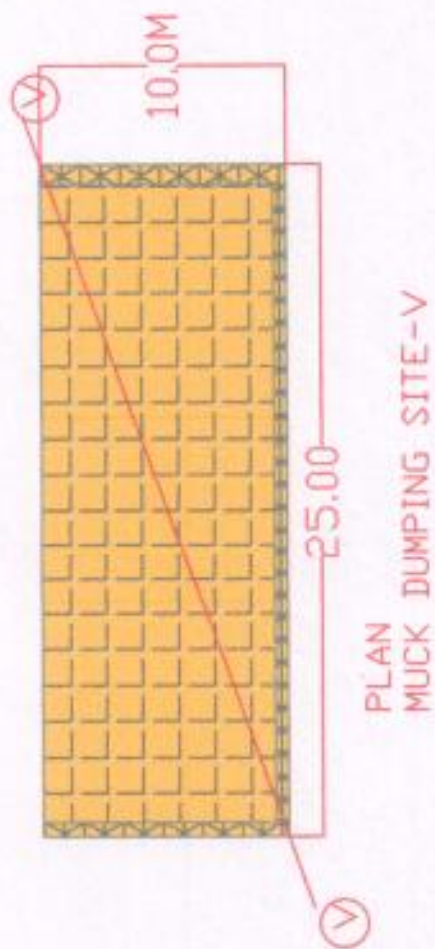
M/s Serai Hydro Power Developers

Ranger Forest Officer  
Forest Department

Authorized Signatory

Divisional Forest Officer  
Kulu Forest Division, Kulu





AREA-25.0Mx10.0M

$$= 250 \text{ M}^2$$

H-4.0M

QTY=250.0M2X4.00M

$$=1000\text{M3}$$

DETAIL OF MUCK  
DUMPING SITE-V IN  
ROAD SITE  
SAJALA SHEP 2.00MW

M/s Saij Nigro Pong Developm

Ranvir Singh  
Forest Range Naggar,

Authorized Signatory

Divisional Forest Officer  
Kullu Forest Division Kullu

### Reclamation Plan

Reclamation plan of Muck Dumping Site areas in respect of SAJLA SHEP (2.00 MW) Falling under forest rang Nagar, Kullu forest division , Distt. Kullu, Himachal Pradesh

The reclamamation plan has been prepared as per proposal about 1998.18 cum (2897.36 cum including 45% swell factor) of muck will be generated form various components, out of which about 1141.48 cum of muck will supposed to be utilized in various projects components for construction of retaining walls, breast walls etc. for strenghtning of components and rest of muck 1755.88 (including 45% swell factor) will be dumped in Five dumping sites as shown in the proposal. As per requirement 1060 sqm area has been taken at two different places for dumping of muck in forest area for dumping site. The overall capacity of muck dumping sites 3880 cum is more than the muck to be dumped 1755.88 cum. Therefore to stabilize the muck in well protected manner, the work shall be done as under:-

### ESTIMATE FOR RECLAMATION OF DUMPING AREA FOR SAJLA SHEP 2.00 MW

Sr. No.	Item of Work	Description	Quantity	Unit	Rate in Rs.	Amount in Rs.	Total Amount in Lacs	Remarks
20	10	<b>MDS - 1</b>						2.20
1	MDS - 1	Excavation in all kinds of soil for foundations of Retaining Walls	105.60	cum	180.00	19008.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	13.20	cum	4760.00	62832.00		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	192.00	cum	2954.00	567168.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	60.00	cum	180.00	10800.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	200.00	sqm	230.00	46000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	200.00	sqm	24.00	4800.00		3.00
7		Periodic watch, ward and maintenance charges for seven years.	200.00	sqm	18.00	3600.00	7.14	m Avg Height
20	8	<b>MDS - 2</b>						2.20
1	MDS - 2	Excavation in all kinds of soil for foundations of Retaining Walls	118.80	cum	180.00	21384.00		m Base Width of
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	11.88	cum	4760.00	56548.80		Random Rubble Stone Masonary,
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	172.80	cum	2954.00	510451.20		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	48.00	cum	180.00	8640.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	160.00	sqm	230.00	36800.00		m Top Width and
6		Planting locally grow able shrubs & trees.	160.00	sqm	24.00	3840.00		3.00
7		Periodic watch, ward and maintenance charges for seven years.	160.00	sqm	18.00	2880.00	6.41	m Avg Height



30	10	MDS - 3						2.20
1	MDS - 3	Excavation in all kinds of soil for foundations of Retaining Walls	165.00	cum	180.00	29700.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	16.50	cum	4760.00	78540.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	320.00	cum	2954.00	945280.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	90.00	cum	180.00	16200.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	300.00	sqm	230.00	69000.00		m Top Width and
6		Planting locally grow able shrubs & trees.	300.00	sqm	24.00	7200.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	300.00	sqm	18.00	5400.00	11.51	m Avg Height
30	5	MDS - 4						2.20
1	MDS - 4	Excavation in all kinds of soil for foundations of Retaining Walls	105.60	cum	180.00	19008.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	13.20	cum	4760.00	62832.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	256.00	cum	2954.00	756224.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	45.00	cum	180.00	8100.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	150.00	sqm	230.00	34500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	150.00	sqm	24.00	3600.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	150.00	sqm	18.00	2700.00	8.87	m Avg Height
25	10	MDS - 5						2.20
1	MDS - 5	Excavation in all kinds of soil for foundations of Retaining Walls	148.50	cum	180.00	26730.00		m Base Width of Random Rubble Stone Masonary,
2		Plain Cement Concrete in foundations 1:6:12 (1Cement : 6 Sand : 12 Aggregate 40mm nominal dia)	14.85	cum	4760.00	70686.00		
3		Random Rubble Stone Masonary in cm 1:6 (1Cement : 6 Sand)	288.00	cum	2954.00	850752.00		
4		Laying a layer 30cm fertile soil over the dumped muck i/c watering and Ramming.	75.00	cum	180.00	13500.00		1.00
5		P/L a layer of Geo - membrane over the freshly laid soil.	250.00	sqm	230.00	57500.00		m Top Width and
6		Planting locally grow able shrubs & trees.	250.00	sqm	24.00	6000.00		4.00
7		Periodic watch, ward and maintenance charges for seven years.	250.00	sqm	18.00	4500.00	10.30	m Avg Height
Total Cost to Develop all Muck Dumping Sites								44.23



- A) This part of construction of chec walls with wire crates stones and filling of excavated material shll be done by the user agency itself. As per proposal Rs. 44.23 Lakhs is proposed for civil engineering works. These works will be carried out before dumping the muck at dumping site.
- B) The second part for raising suitable plantation etc. on the muck dumping sites shall be implemented by the Forest Development at the cost of user agency. As per the proposal Rs. 1,82,900/- (Rupees One Lacs Eighty two thousand Nine hundred only) only with the forest department for raising suitable plantation. Necessary rehabilitation measures for the unused dumping material at different sites shall be carried out by afforestation to provide vegetation cover there on.

Date : 18/2/2022

Place : Kullu

M/s. Setai Hydropower Developers  
Authorized Signatory

Authorized Signatory

Counter Signed By

Range Forest Officer  
Forest Sub Nagar

Divisional Forest Officer  
Kullu Forest Division, Kullu (HP)

BILL FOR RECLAMATION PLAN							
In respect of diversion of Forest land <b>0.7995 hectares</b> for the construction of <b>SAJLA (2.00 MW)</b> Small Hydro Project in Khakhnal Beat of Nagar Forest Range, Forest Diversion Kullu, Distt. Kullu H.P.							
Sr. No.	Dumiping Site No.	Length	Width	Area in Sqm	Area in Ha.	Fence post	
1	Dumping Site-1	20	10	200.00	0.020	20	Nos.
2	Dumping Site-II	20	8	160.00	0.016	19	Nos.
3	Dumping Site-III	30	10	300.00	0.030	27	Nos.
4	Dumping Site-IV	30	5	150.00	0.015	23	Nos.
5	Dumping Site -V	25	10	250.00	0.025	23	Nos.
	<b>Total</b>				<b>0.1060</b>	<b>112</b>	<b>Nos.</b>
		<b>Total Area</b>		<b>0.106</b>	<b>hectare</b>		
Sr. No.	Particulars of Work	Quantity		Rate per Unit at the wage rate of Rs. 150/-	Amount @ Rs 150/- for Non-Tribal areas	Man Days involved	Amount at the wage rate of Rs 350/- for Non-Tribal areas
<b>A SURVEY, DEMARCATION &amp; FENCING</b>							
1	Survey & demarcation of plantation area	0.106	hec.	101	11	0.07	25
2	Preparation / purchase of RCC fence posts	112	Nos.	250	28000		28000
3	Carriage of RCC fane posts upto 165 cm long over distance 2 km uphill/downhill	112	Nos. / km	33.5	7504	50.03	17509
4	Preparation /digging of holes of 20x30x50 cm size	112	Nos.	9.06	1015	6.76	2368
5	Fixing of RCC fence posts including strutting	112	Nos.	7.16	802	5.35	1871
6	Carriage of barbed wire over distance 2 km uphill/downhill	1.92	Qtls. / km	73.65	283	1.89	660
7	Stretching & fixing of barbed wire in 4 strands	1344	Rmt.	4.8	6451	43.01	15053
8	Interlacing of Thorny Bushes along the fence	336	Rmt.	4.09	1374	9.16	3207
9	Cost of Barbed Wire	1.92	Qtls.	6510	12499		12499
	<b>Total-A/ Survey, Demarcation &amp; Fencing</b>						<b>81191</b>
	<b>Or Say Rs</b>						<b>81200</b>

<b>B</b>	<b>PLANTING :-</b>						
1	Bush Cutting in Strips (3mx3m)	0.106	hec.	1192.8	126	0.84	295
2	Digging of pits of 45x45x45 cm size	116	Nos.	9.54	1111	7.41	2593
3	Filling of pits of 45x45x45 cm size	116	Nos.	2.72	317	2.11	739
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	116	Nos.	1.9	443	2.95	1033
5	Planting of plant Raised in P/Bags	116	Nos.	2.18	254	1.69	593
6	Construction of Inspection Path	100	Rmt.	11	1100	7.33	2567
7	Cost of sign Board Carriage & Fixing		No.	l/s	450	5	2250
	<b>Total- B/ Planting</b>						<b>10069</b>
	<b>Or Say Rs</b>						<b>10070</b>
	<b>Grand Total (A+B)</b>						<b>91270</b>
	Cost of plants (22-00 per plant)	116	Nos.				2563
	<b>Grand Total</b>						<b>93833</b>
	<b>Or Say Rs</b>						<b>93840</b>
<b>C</b>	<b>1st Year maintenance (30% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	35	Nos.	4.77	167	1.11	389
2	Filling of pits 45x45x45 cm	35	Nos.	2.72	95	0.63	222
3	Planting of plants raised in P/Bags	35	Nos.	2.18	76	0.51	178
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	35	Nos./K m	1.9	133	0.89	310
5	Repair of B/Wire fencing	403.2	Rmt.	1.8	726	4.84	1693
6	Cost of plants (22-00 per plant)	35	Nos.	22	769		769
	<b>Total</b>						<b>3561</b>
	<b>Or Say Rs</b>						<b>3560</b>
<b>D</b>	<b>2nd Year maintenance (20% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	23	Nos.	4.77	111	0.74	259
2	Filling of pits 45x45x45 cm	23	Nos.	2.72	63	0.42	148
3	Planting of plants raised in P/Bags	23	Nos.	2.18	51	0.34	119
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	23	Nos./K m	1.9	89	0.59	207
5	Repair of B/Wire fencing	268.8	Rmt.	1.8	484	3.23	1129
6	Cost of plants (22-00 per plant)	23	Nos.	22	513		513
	<b>Total</b>						<b>2374</b>
	<b>Or Say Rs</b>						<b>2380</b>



<b>E</b>	<b>3rd Year maintenance (10% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	12	Nos.	4.77	56	0.37	130
2	Filling of pits 45x45x45 cm	12	Nos.	2.72	32	0.21	74
3	Planting of plants raised in P/Bags	12	Nos.	2.18	25	0.17	59
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	12	Nos./K m	1.9	44	0.30	103
5	Repair of B/Wire fencing	134	Rmt.	1.8	242	1.61	564
6	Cost of plants (22-00 per plant)	12	Nos.	22	256		256
	<b>Total</b>						<b>1187</b>
	<b>Or Say Rs</b>						<b>1190</b>
<b>F</b>	<b>4th Year maintenance (10% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	12	Nos.	4.77	56	0.37	130
2	Filling of pits 45x45x45 cm	12	Nos.	2.72	32	0.21	74
3	Planting of plants raised in P/Bags	12	Nos.	2.18	25	0.17	59
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	12	Nos./K m	1.9	44	0.30	103
5	Repair of B/Wire fencing	134.4	Rmt.	1.8	242	1.61	564
6	Cost of plants (22-00 per plant)	12	Nos.	22	256		256
	<b>Total</b>						<b>1187</b>
	<b>Or Say Rs</b>						<b>1190</b>
<b>G</b>	<b>5th Year maintenance (10% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	12	Nos.	4.77	56	0.37	130
2	Filling of pits 45x45x45 cm	12	Nos.	2.72	32	0.21	74
3	Planting of plants raised in P/Bags	12	Nos.	2.18	25	0.17	59
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	12	Nos./K m	1.9	44	0.30	103
5	Repair of B/Wire fencing	134.4	Rmt.	1.8	242	1.61	564
6	Cost of plants (22-00 per plant)	12	Nos.	22	256		256
	<b>Total</b>						<b>1187</b>
	<b>Or Say Rs</b>						<b>1190</b>
<b>H</b>	<b>6th Year maintenance (10% Beating up)</b>						
1	Re-digging of pits of 45x45 cm size	12	Nos.	4.77	56	0.37	130
2	Filling of pits 45x45x45 cm	12	Nos.	2.72	32	0.21	74
3	Planting of plants raised in P/Bags	12	Nos.	2.18	25	0.17	59
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	12	Nos./K m	1.9	44	0.30	103
5	Repair of B/Wire fencing	134.4	Rmt.	1.8	242	1.61	564
6	Cost of plants (22-00 per plant)	12	Nos.	22	256		256
	<b>Total</b>						<b>1187</b>
	<b>Or Say Rs</b>						<b>1190</b>



L 10th Year maintenance (10% Beating up)						
1	Re-digging of pits of 45x45 cm size	12 Nos.	4.77	56	0.37	130
2	Filling of pits 45x45x45 cm	12 Nos.	2.72	32	0.21	74
3	Planting of plants raised in P/Bags	12 Nos.	2.18	25	0.17	59
4	Carriage of plants in P/Bags over distance 2 km uphill/ downhill	12 Nos./K m	1.9	44	0.30	103
5	Repair of B/Wire fencing	134.4 Rmt.	1.8	242	1.61	564
6	Cost of plants (22-00 per plant)	12 Nos.	22	256		256
<b>Total</b>						<b>1187</b>
<b>Or Say Rs</b>						<b>1190</b>
Total Maint. (C to L)						<b>15460</b>
Total New planting & Maint.						<b>109300</b>
Soil conservation works						<b>40000</b>
<b>Sub Total</b>						<b>149300</b>
Add 17.50% Department charges						<b>26128</b>
Add 5% contingency charges						<b>7465</b>
<b>Grand Total</b>						<b>182893</b>
<b>Or Say</b>						<b>182900</b>
<b>One Lakhs Eighty Two Thousand Nine Hundred Rupees Only</b>						

*[Signature]*  
Range Forest Officer,  
Nagar Forest Range

*[Signature]*  
Divisional Forest Officer  
Kullu Forest Division, Kullu



**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal:

**DETAILED REPORT ON VOILATION OF PROVISION OF FOREST ACT**

S. No	Description	Remarks
1	The extent (in hectare) of forest land broken/ encroached and the number of trees illicitly felled	-
2	Name and designation of the official / person who are prima-facie responsible for the contravention of the act, supported by the requisite documents.	No official person is liable as no violation has been done.
3	In case, it is not possible to fix the responsibilities for commission/ omission of any action leading to violation of the provision of the act, full explanation with the support of the documents to be appended.	-NA-
4	Detailed action taken by DFO against illicit felling/ encroachment/ illegal mining etc. under the provision of IFA-1927/PLPA-1900/other State Acts, etc.	-NA-

Date: 18/2/2022

Place: Kullu

Authorized Signatory *[Signature]* **Hydro Power Developers**

M/S SERAJ HYDRO POWER DEVELOPERS

Authorized Signatory

*[Signature]*  
Range Forest Officer  
Forest Division, Naggar

*[Signature]*  
Countersigned By:  
Divisional Forest Officer  
Divisional Forest Office, Kullu

Kullu Forest Division Distt. Kullu H.P.

**Full Title of Project:** Diversion of 7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Kullu Forest Division, Kullu at Distt. Kullu (H.P.)

File No. :  
 Proposal No. : FP/HP/HYD/150023/2021  
 Date of Proposal : 18/2/2022

**UNDERTAKING FOR SUBMISSION OF TEC & IA**

I, Tilak Raj Authorized Signatory of M/s Seraj Hydro Power Developers hereby, undertake to obtain & supply the certificate of Techno Economic Clearance (TEC), Implementation Agreement (IA) of Sajla 2.00 MW SHEP from Government of Himachal Pradesh before final approval from MoEF.

Date: 18/2/2022  
 Place: Kullu

Divisional Forest Officer  
 Kullu Forest Division Kullu

M/s Seraj Hydro Power Developers  
 Authorized Signatory  
 Authorized Signatory

Range Forest Officer  
 Forest Range Paggur

Divisional Forest Officer  
 Kullu Forest Division, Kullu

**Full Title of Project:** Diversion of 7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Kullu Forest Division, Kullu at Distt. Kullu (H.P.)

File No. :  
 Proposal No. : FP/HP/HYD/150023/2021  
 Date of Proposal : 18/2/22

### UNDERTAKING

I, Tilak Raj authorized signatory of M/s Seraj Hydro Power Developers has applied for the Diversion of 0.7995 Ha. of forest land for Construction of 2.00 MW Sajla SHEP under Kullu forest Division of Distt. Kullu (H.P.). I, hereby, undertake that we shall not establish/ set up any labour camps, office (Temporary/Permanent) in forest area during the construction.

Date: 18/2/22  
 Place: Kullu

Divisional Forest Officer  
 Kullu Forest Division Kullu

M/s Seraj Hydro Power Developers  
 Authorized Signatory

Range Officer  
 Forest Range Naggar

Divisional Forest Officer  
 Kullu Forest Division, Kullu



**Full Title of Project:** Diversion of 7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Kullu Forest Division, Kullu at Distt. Kullu (H.P.)

File No. :  
 Proposal No. : FP/HP/HYD/150023/2021  
 Date of Proposal : 18/2/2022

### UNDERTAKING

I, Tilak Raj authorized signatory of M/s Seraj Hydro Power Developers, undertake to provide cooking gas/kerosene oil to the workers/ labours. Fuel wood, if required shall be purchased from the Himachal Pradesh State Forest Corporation.

Date: 18/02/2022  
 Place: Kullu

M/s Seraj Hydro Power Developers  
 Authorized Signatory

Authorized Signatory

Countersigned By:-

Divisional Forest Officer  
 Kullu Forest Division, Kullu  
 Kullu Divisional Forest Officer

Forest Division Kullu (HP)

Range Forest Officer  
 Forest Range Naggar

**Full Title of Project:** Diversion of 7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Kullu Forest Division, Kullu at Distt. Kullu (H.P.)

File No. :  
 Proposal No. : FP/HP/HYD/150023/2021  
 Date of Proposal : 18/2/2022

### **CERTIFICATE REGARDING ECO ZONE**

It is certified that the proposed site is 8 Km away from the Manali Wildlife sanctuary and does not fall in the jurisdiction Wild Life Sanctuary and proposed Eco Sensitive Zone. Distance for the Boundary of Eco-Sensitive Zones are 7.80 kms. from proposed site.

*[Signature]*  
 Divisional Forest Officer  
 Kullu Forest Division, Kullu  
 Divisional Forest Officer  
 Kullu Forest Division Kullu  
 Forest Division Kullu (HP)

*[Signature]*  
 Range Forest Officer  
 Forest Division Kullu

**Full Title of Project:** Diversion of 7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Kullu Forest Division, Kullu at Distt. Kullu (H.P.)

File No. :  
 Proposal No. : FP/HP/HYD/150023/2021  
 Date of Proposal : 18/2/2022

## CERTIFICATE

I, Tilak Raj authorized signatory of M/s Seraj Hydro Power Developers Certify that the Legal status of the forest land involved in the project will not be change with the approval as granted under Forest (Conservation) Act 1980.

Authorized Signatory  
 M/s Seraj Hydro Power Developers  
 Authorized Signatory  
 Authorized Signatory

Countersigned By:-

Divisional Forest Officer  
 Kullu Forest Division, Kullu  
 Divisional Forest Officer  
 Kullu Forest Division, Kullu

Forest Division Kullu (HP)

Range Forest Officer  
 Forest Division Kullu (HP)



**Full Title of Project:** Diversion of 0.7995 hac of Forest land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.)

File No:

Proposal No. **FP/HP/HYD/150023/2021**

Date of Proposal: **18/2/2022**

**Certificate for Approval of the Proposal for Which Diversion of Forest Land is proposed**

This is to certify that diversion of proposed 0.7995 ha. Forest for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali Forest Division at Distt. Kullu (H.P.) has been approved by competent authority of M/S SERAJ HYDRO POWER DEVELOPERS.

Date: **17/02/2022**

Place: **Kullu**

Authorized Signatory **M/S SERAJ HYDRO POWER DEVELOPERS**

M/S SERAJ HYDRO POWER DEVELOPERS

Authorized Signatory

Range Forest Officer  
Forest Division Kullu

Divisional Forest Officer  
Kullu Forest Division, Kullu


Divisional Forest Officer

Kullu Forest Division Distt. Kullu H.P.

## Certificate

As per Human Census 2011, the population of the Muhal Gojra is as under:-

Village code	Name of Village	Total Population	Total Male	Total Female
012720	Muhal Gojra (20/20)	482	241	241

  
District Revenue Officer  
Kullu

85  
Full Title of Project: Diversion of 0.7995 Ha. of Forest Land for Construction of SAJLA SHEP 2.00 MW, Tehsil Manali, Forest Division Kullu, Distt. Kullu (H.P.)

File No. :

Proposal No. : FP/HP/HYD/150023/2021

Date of Proposal : 18/2/2022

**UNDERTAKING FOR SUBMISSION OF Wild Life NOC**

I, Tilak Raj Thakur authorized Signatory of M/s Seraj Hydro Power Developers hereby, undertake to obtain & provide the Wild Life NOC/ comments of CWLW before In-principal approval of FCA.

Rang Forest Officer  
Forest Division, Kullu  
*[Signature]*

*[Signature]*  
Divisional Forest Officer  
Kullu Forest Division, Kullu

M/s Seraj Hydro Power Developers  
*[Signature]*  
Authorized Signatory  
M/s Seraj Hydro Power Developers



**Full Title of the Project:** Diversion 0.7995 of Forest Land in favour of M/s Seraj Hydro Power Developers for construction of Sajla SHEP (2.00 MW) within the jurisdiction of Kullu Forest Division , District Kullu , HP .

**BILL OF NET PRESENT VALUE**

**In respect of diversion 0.7995 of Forest Land in favour of M/s Seraj Hydro Power Developers for construction of Sajla SHEP (2.00 MW) within the jurisdiction of Kullu Forest Division , District Kullu , HP**

Name of Project		Construction of Sajla SHEP (2.00 MW)					
Name of User Agency		M/s Seraj Hydro Power Developers					
Sr. No	Name of Forest	Location	Area involved Area in Ha.	Category of NPV	Category of rate for NPV	Rate (Rs.) Per ha.	Amount Net Payable
1.	DPF Padri Chalon & DPF Sajla Shil	Khakhnal Beat Khakhnal Block Naggur Forest Range	0-7995 hac.	Open Forest	Eco Class-VI	1069470	855041
(Rs. Eight Lakhs Fifty Five Thousand Forty One Only)							

**Range Forest Officer,  
Naggur Forest Range**

**Divisional Forest Officer  
Kullu Forest Division, Kullu**

Full Title of the Project

Diversion of 0.7995 Ha. of forest land for construction of Sajla SHEP (2.00) MW

Proposal No.

Tehsil Manali, Forest Division at Kullu (HP)

Date of Proposal

FP/HP/HYD/150023/2021

18/2/2022

## CHECK LIST SERIAL NUMBER -32

## COMPONENT-WISE TOTAL AREA REQUIREMENT

LAND REQUIREMENT OF Sajla SHEP (2.00 MW)										
S.No.	Name of Component	Khasra No./ TURDA NO.	MANUAL/ Photo	SIZE OF COMPONENTS IN		AREA OF LAND		AREA (Hec.) Private Land	AREA (Hec.) Forest Land	Total Land in Ha.
				Length	Width	FOREST LAND (Sq. mt)	PRIVATE LAND (Sq. mt)			
1	2	3	4	5	6	7	8		9	10
1	Interconnection Point	Tukda No. 1	DPF Padri Chalon/Jagatsukh	10.00	8.00	80.00	---		0.0080	0.0080
2	Underground TL-1	Tukda No. 2	DPF Padri Chalon/Jagatsukh	386.00	0.60	231.60	---		0.0231	0.0231
3	MD-1	Tukda No. 3	DPF Padri Chalon/Jagatsukh	25.00	10.00	250.00	---		0.0250	0.0250
4	Road to Power House	Tukda No. 4	DPF Padri Chalon/Jagatsukh	430.00	3.00	1290.00	---		0.1230	0.1230
5	MD-2	Tukda No. 5	DPF Padri Chalon/Jagatsukh	30.00	5.00	150.00	---		0.0150	0.0150
6	Underground TL-2	Tukda No. 6	DPF Padri Chalon/Jagatsukh	4.00	0.60	2.40	---		0.0002	0.0002
7	Penstock-1	Tukda No. 7	DPF Padri Chalon/Jagatsukh	2004.00	2.00	4008.00	---		0.4008	0.4008
8	MD-3	Tukda No. 8	DPF Padri Chalon/Jagatsukh	20.00	8.00	160.00	---		0.0160	0.0160
9	MD-4	Tukda No. 9	DPF Padri Chalon/Jagatsukh	20.00	10.00	200.00	---		0.0200	0.0200
10	D-Tank	Tukda No. 10	DPF Padri Chalon/Jagatsukh	30.00	5.00	150.00	---		0.0150	0.0150
11	Score Pipe	Tukda No. 11	DPF Padri Chalon/Jagatsukh	5.00	1.00	5.00	---		0.0005	0.0005
12	Feeder Pipe	Tukda No. 12	DPF Padri Chalon/Jagatsukh	5.00	3.00	15.00	---		0.0015	0.0015
13	Gravel Taper	Tukda No. 13	DPF Padri Chalon/Jagatsukh	5.00	3.00	15.00	---		0.0015	0.0015
14	Weir Site	Tukda No. 14	DPF Padri Chalon/Jagatsukh	15.00	10.00	150.00	---		0.0150	0.0150
15	Tail Race	Tukda No. 1	DPF Sajla Shil/Banshai	25.00	2.00	50.00	---		0.0050	0.0050
16	Underground TL-3	Tukda No. 2	DPF Sajla Shil/Banshai	36.00	0.60	21.60	---		0.0022	0.0022
17	MD-5	Tukda No. 3	DPF Sajla Shil/Banshai	30.00	10.00	300.00	---		0.0300	0.0300
18	Power House/Switchyard	Tukda No. 4	DPF Sajla Shil/Banshai	40.00	20.00	800.00	---		0.0800	0.0800
19	Road to Power House	Tukda No. 5	DPF Sajla Shil/Banshai	15.00	3.00	45.00	---		0.0045	0.0045
20	Penstock-2	Tukda No. 6	DPF Sajla Shil/Banshai	66.00	2.00	132.00	---		0.0132	0.0132
TOTAL LAND REQUIREMENT								0.0000	0.7995	0.7995

Forest Land for Diversion in Ha. = 0.7995 Hactare

Private Land for Diversion in ha. = 0000 Hactare

Total Land for diversion in ha. = 0.7995 Hactare

M/s Seraj Hydro Power Developers  
Authorized Signatory

Authorized Signatory

Divisional Forest Officer  
Kullu Forest Division, Kullu  
Divisional Forest Officer  
Forest Division Kullu (HP)Ramesh Kumar  
Forest Range Officer

No. HIMURJA/SHF: Sajla ( SHPD)2016 578/  
 To

Dated: 21-6-2016

✓ M/s Sorzi Hydro Power Developers,  
 H. No. 35, Ward No. 10, Devdhar,  
 Near Gori BEHAR p.o., Dhalpur,  
 District Kullu H.P. Pin-175101

Sub:- Consent for exclusive time bound right for preparation of Project Report for the  
 Small Hydel Project Sajla (2.00 MW) in Kullu District, Himachal Pradesh.

Dear Sir,

I am directed to inform that after considering your application for the self identified project the State Government has consented to give you the exclusive right for preparation of DPR for subsequent implementation of SHP in H.P. The details of the project for which consent has been granted is as below:-

Sr. No.	Name of the Project	Stream/Basin	Distt.	Elevation Range (Diversion site to Tail race)	Estimated Capacity (MW)
1	Sajla	Kanoi Nalah/Bor	Kullu	± 2245 m to 1945 m	2.00 MW

#### 1. FR FINALISATION

The IPP shall submit a comprehensive Feasibility Report (FR) to Himurja prepared by a reputed consultant within six months of issuance of this letter along with the credential of the consultant. Feasibility Report (FR) shall be based on actual Survey & Investigation containing site detail, hydrological data, location of project components, power studies for capacity determination, land requirements, layout plan, single line diagram, E & M equipment specifications and cost analysis etc. Extension of three (3) months subject to deposition of extension fee @ Rs. 10,000/- per MW per month is allowable. If the IPP fails to submit Feasibility Report within extended period project is liable to be cancelled.

2. IPP shall have to deposit security, processing fee, upfront premium based on the allotted capacity within two months from the date of issuance of this consent.

#### 2.1. SECURITY (REFUNDABLE)

The Security charges (refundable) in the shape of Demand draft is to be furnished in favour of "DIRECTOR HIMURJA" payable at Shimla @ Rs. 50,000/- per MW. If the requisite documents such as PFR, Upfront premium and post allotment processing fee etc. as prescribed in the consent letter are not deposited in time, the project shall be cancelled and this amount will be forfeited. This amount will also be used as performance guarantee for different milestones and adjusted against extension charges that may have become due and were not paid in case of cancellation of project at any stage. (EMD deposited at the time of apply will be adjusted against Security)

The above security shall be refundable to IPP after signing of IA.



## 2.2 PROCESSING FEE (NON-REFUNDABLE)

Furnishing of the Processing Fee (non-refundable) in shape of Demand Draft in favour of "Director, HIMURJA" payable at Shimla. The processing fee for Himachali, Cooperative society/Company comprising of the Lonafide Himachalis shall be Rs. 25,000/- upto 2 MW and beyond 2.00 MW upto 5 MW @ Rs. 25,000/- + Rs. 10,000/- per MW (for the capacity exceeding 2 MW). For others i.e. Non-Himachalis the processing fee shall be Rs. 2.00 lac per Project.

If an IPP enhances the capacity of already allotted Project after Technical Concurrence/ signing of IA, then the IPP shall be required to furnish the processing fee afresh at the rate specified above.

## 2.3 (a) UP-FRONT PREMIUM (NON REFUNDABLE)

Upfront premium (Non-refundable) shall have to be furnished in shape of Demand Draft in favour of Director Himurja, payable at Shimla.

Up-front premium shall be charged in two stages-

- @ Rs.45000/- per MW at the time of allotment of the project i.e within two months from the date of this consent letter.
- Balance upfront premium @ Rs. 45000/- per MW at the time of signing of the IA.

Whereas for projects upto 2 MW upfront premium is exempted

2.3 (b) If after enhancement of capacity the capacity of the project remains upto 5 MW the IPP shall have to pay upfront premium @ Rs 90,000/- per MW on whole capacity.

- The IPP shall carry out the requisite detailed investigations and techno economic studies of the Project and shall submit a Detailed Project Report to HIMURJA within a period of 24 months from the date of issue of this consent letter in consideration to Hydro Power Policy 2006 and its subsequent amendments from time to time.
- The IPP shall submit monthly discharge data and quarterly overall progress reports to Himurja on the Proforma attached at Annexure- 'A' & 'B'.
- Following milestones shall be binding on the IPP:-

Sr. No.	Milestones	Time Period
1	Feasibility Report Submission	Within six months from the date of Consent Letter before preparation of DPR. Feasibility Report (FR) shall be based on actual Survey & Investigation containing site detail, hydrological data, location of project components, power studies for capacity determination, Land requirements, Layout plan, single line diagram, E & M equipment specifications. Extension of three months with extension fee @ Rs. 10,000/- per MW per month. Consequences- Cancellation of project.
2	Feasibility Approval	Himurja will approve the Feasibility Report within two months from its submission or within 11 months (including extension obtained for submission of feasibility report if

		any) from the issue of consent letter.
3	Acquisition of Revenue record.	IPP has to obtain all the necessary revenue record required for implementation of project within Nine (9) months from the date of issuance of Consent Letter or within 12 months (including extension obtained for submission of feasibility report, if any) from the date of issuance of Consent Letter.
4	Submission of applications for all clearances/approval/consent to different departments	IPP has to submit applications for all the clearances/approval/consent applied within Eleven (11) months from the date of issuance of Consent Letter or within 14 months (including extension obtained for submission of feasibility report if any) from the date of issuance of Consent Letter.
5	Obtaining of all clearances/approval/consent	IPP has to obtain all the clearances/approval/consent within Twenty Four (24) months (including extension obtained for submission of feasibility report if any) from the date of Consent Letter.
6	Submission of Detailed Project Report (DPR) as per CEA/ CWC Guidelines & within allotted/approved parameters with all clearances.	Within 24 months from the date of issuance of Consent Letter or within 27 months including three (3) months extension for submission of FR, if three (3) months extension not availed at the time of FR, extension of three (3) months can be availed for submission of DPR for valid reasons by levying extension fee @ Rs 1000/- per MW for first month doubling in successive months, i.e. 1 <sup>st</sup> month Rs 1,000/-, 2 <sup>nd</sup> month Rs. 2000/-, 3 <sup>rd</sup> month 4000/-.
7	Grant of Technical Concurrence, preparation & submission of documents for signing of Implementation Agreement.	Technical Concurrence shall be accorded by Directorate of Energy (DoE), on behalf of the Government within 45 days from the date of receipt of the Detailed Project Report or within 28 months and 15 days (including extension obtained for submission of feasibility report, if any) from the date of issuance of Consent Letter and also complete all formalities for signing of IA.
8	Confirmation of Interconnection Point	Two months after the approval of FR, the IPP shall apply to the appropriate authority (Distribution/Transmission Licensee) for finalization/confirmation of interconnection point.
9	Signing of IA	Within 15 days of accordance of TC or within 29 months from the issuance of Consent Letter (including extension obtained for submission of FR/DPR, if any) whichever is earlier.
10	Achieving Financial closure including PPA if required and work started Concurrent action: Any balance clearances, consent/approval to be obtained.	IPP has to achieve the financial closure including PPA if required and obtain balance clearance/consent/approval, if any and start work on site within six (6) months after signing of IA or within 35 months (including, extension obtained for submission of feasibility report and DPR, if any) from the date of issuance of Consent Letter.



11	Project Commissioning	<p>Project must be commissioned within 24 months from the date of start of work. However, six (6) months extension in this period is allowable for valid reasons subject to deposition of extension fee or within 65 months (including extension obtained for submission of feasibility report/DPR submission/extension in construction period, if any) from the issue the date of issuance of Consent Letter.</p> <p>Extension charges applicable @ Rs 1000/- per MW for 1<sup>st</sup> month doubling in successive months, subject to maximum of Rs 10,000/- i.e. 1<sup>st</sup> month Rs 1,000/-, 2<sup>nd</sup> month Rs. 2000, 3<sup>rd</sup> month 4000/-, 5<sup>th</sup> month Rs. 10,000/- This part of charges will be payable upfront or with interest at project borrowing rates, after commissioning..</p>
----	-----------------------	---

6. The IPP shall stick to the time schedule for the investigation of the project and submission of the FR and DPR. In the event of the IPP being unable to submit the FR and DPR within the stipulated period as mentioned in clause 1,3 &5 in this letter, the IPP can seek extension for the delay for valid reasons within one month alongwith extension fee and maximum extension shall be as mentioned in Clause No -5 of this letter. Extension fee for extension in time period for submission of DPR shall be @ Rs 1000/- per MW for first month doubling in successive months, subject to maximum of Rs 10,000/- i.e. 1<sup>st</sup> month Rs 1000/-, 2<sup>nd</sup> month Rs. 2000, 3<sup>rd</sup> month 4000/-, 5<sup>th</sup> month Rs. 10,000/- and for FR extension fees shall be @ Rs. 10,000/- per MW per month. Non submission of DPR within the extended period shall result into cancellation of the project.
7. Detailed Project Report submission date shall be reckoned only after it has been found that the report is in conformity with CEA/ CWC guidelines & within allotted/approved elevation & stream. The reports and studies shall be prepared by reputed consultants who have experience of handling the complete task of geological & hydrological investigation, construction, erection, commissioning and operation of hydroelectric projects. Complete details of the consultants and their experience shall be included in the DPR or annexed therein.
8. HIMURJA, on receipt of Detailed Project Report (DPR), will scrutinize the DPR from the angle of allotted parameters and related aspects of the project as well as optimum utilization of the potential. After its scrutiny the HIMURJA will forward the DPR to Director of Energy, for accordance of Technical Concurrence. During examination of DPR HIMURJA/ Director of Energy, may point out the defects and deficiencies affecting the Technical Concurrence. IPP is expected to make good the defects promptly and remove the defects or deficiencies, as pointed out by the HIMURJA/ Director of Energy, within 30 days from the dispatch of the communication. The IPP will obtain Techno Concurrence (TC) from Director of Energy, within 45 days from the date of submission of DPR.
9. If the performance of this consent or any obligation of IPP is prevented, restricted or interfered with for any reasons such as fire, explosion, epidemic, cyclone, earthquake, flood, unforeseen natural calamity, war, revolution, requirement of any Government or any sub-division authority or representative of any such Government in respect of the aforesaid conditions, or any other act whatsoever, whether similar or dissimilar to those enumerated, beyond the reasonable control of the party hereto; the party so affected upon giving prompt notice to other party shall be excused from such performance to the extent of such prevention, restriction or interference for the period it persists provided that the party so affected shall make its best efforts to avoid or remove causes of non-performance, if



possible, and shall continue performance hereunder with the utmost dispatch whenever such causes are removed. If the force majeure such as war, civil war, insurrection, riots, revolutions, fires, floods, epidemics, quarantine, restrictions, freight embargoes, radioactivity, earthquakes, cloudbursts, landslides and excessive snow persists for continuous period of the consent letter or more, the parties shall meet and decide about the further course of action.

10. In case the IPP does not find the Project to be feasible from techno economic considerations or from any other aspect, the IPP shall hand over to the HIMURJA all the Project Reports and any other connected documents etc. as may have been collected and/or prepared by the IPP during the course of investigations.
11. The Government after having concluded that the Project is techno economically viable may enter into an Implementation Agreement with the IPP within 15 days of accordance of TC or within 29 months after issue of consent letter ( including extension if any ) whichever is earlier. IPP will give request for signing IA and deposit requisite charges for signing of IA for the execution of project on terms and conditions in accordance with H.P. Hydro Power Policy 2006 read with various amendments in it notified from time to time.
12. The IPP shall set up its office within State of Himachal Pradesh after signing of Implementation Agreement and furnish the proof thereof.
13. (i) This consent shall be restricted within the approved parameters of this consent letter i.e. to utilize water of **Kanoi Nallah** in elevation range between EL  $\pm$  2245m to 1945m (i.e. Diversion weir to Tail race) on **Right/left** Bank of **Kanoi Nallah** on which this project is envisaged unless otherwise approved by the H.P. Government. The H.P. Govt. shall be at liberty to cancel the consent, if any violation on this account is discovered at a later stage.
- (ii) As per laid down guidelines riparian distance of 50mtrs elevation wise or 250m horizontal distance is to be maintained between two projects to allow visible flow of water in the stream/Nalla while carrying out detailed survey, failing which the allotment is liable to be cancelled for violation of the same.
- (iii) In case of any conflict about a site, due to other allotment on the same stream/nallah etc. the State Government/Himurja shall have the right to take the decision about the Consent letter and this decision shall be final and binding on the concerned parties.
- (iv) If it is discovered at later stage that project components are coming up in Wild Life Sanctuary/National Park the project shall stand canceled without paying any compensation or an alternative site.
14. NOCs of IPH, HPPWD, Revenue, Fisheries and Wild Life are not required with DPR. However, clearances and compliance of norms & conditions of the departments shall be ensured by the developers before and during execution.
  - i) The norms and terms and conditions of IPH, PWD and Revenue Department shall be annexed with the Implementation Agreement and developer shall abide by them.
  - ii) No project should be allotted in Wild Life Sanctuaries/Parks/areas. If later on the project comes within the boundaries of Wild Life Sanctuaries/Parks/areas by way of redefining boundaries of Wild Life Sanctuaries/Parks/areas, IPP shall have to surrender the project immediately without any claim.

- iii) NOC of Fisheries Department is required. Only where projects are allotted in the streams where Fisheries department has its conservations and development projects, the developers will comply with all the instructions/directions of Fisheries Department and take into account impact in Feasibility Study, DPR and during project execution.

**Charges payable-**

- a No charges for projects upto 2 MW.
- b For other only per MW charges at the rate of Rs 50,000/- per MW.
- c No additional charges for length of stream so as to avoid inspections.
- d Where any development conservation projects of Fisheries Department are impacted separate charges as per Fisheries Department proposal.

- iv) NOC of Gram Panchayat – Effective consultation shall be done with Gram Panchayats and their objections and suggestions shall be heard and decided by SDM by way of a reasoned speaking order. Aggrieved parties have right to appeal before D.C. and thereafter Principal Secretary (Power).

Single joint committee will clear all aspects of projects for statutory clearances.

- 15 NOCs from different Departments shall be furnished in shape of, self attested copies, to the HIMURJA. The IPP is required to furnish an affidavit, on Rs. 5/- stamp paper duly notarized, to the effect that all the conditions in the NOCs obtained from the different Departments and Gram Panchayat shall be abided by them, in case an IA is signed with the IPP later on.

- 16 The receipt of this communication and acceptance of consent conditions aforesaid will be acknowledged within one month and the affidavits, security charges, processing fee and upfront premium within two months from the date of issue of this letter. In case, IPP's confirmation is not received or security, processing fee and other relevant essential documents, not deposited by the due date it shall be presumed that IPP is not interested in taking up the project and consent shall be treated as withdrawn.

**17 ROYALTY**

In the event of this project being awarded to you for implementation, a separate agreement called Implementation Agreement shall be executed for supplying the royalty on water usages in shape of free power royalty (Energy) as per the following rates or the rates applicable as per policy of the State Govt. at the time of signing of Implementation Agreement.

- a **Projects upto 2.00 MW Capacity:-** Small Hydro Electric Projects upto 2 MW allotted after 2006 Hydro Policy, where power is consumed in HP by HPSEBL free power payable to State and Local Area Development Fund shall be 2%, 12% and 18% (2% for first 12 years, 12% for next 18 years & 18% for remaining period of 10 years).



- b For Projects above 2.00 MW & upto 5.00 MW capacity- The Free power royalty liable to be charged for projects with an installed capacity upto 5 MW will be at the rate of 12%, 15% & 24% (12% for first 12 years, 15% for next 18 years & 24% for remaining period of 10 years) for captive use or third party sale outside the state or the rates applicable as per policy of the State Government at the time of signing of IA. For captive consumption within the state or sale to HPSEB Ltd. or its successors the concessional royalty rates shall be 6%, 15% and 24% (6% for first 12 years, 15% for next 18 years & 24% for remaining period of 10 years). In case of capacity enhancement beyond 5 MW : rates notified by government shall be applicable.

The IPP shall provide an additional 1% (one percent) free power over and above the rates existing at 20 (a&b) for Local Area Development Fund (LADF) aimed at providing regular stream of revenue for income generation and welfare schemes, creation of additional infrastructure and common facilities etc. on a sustained and continued basis over the life of the project. This fund would be available in the form of an annuity over the entire life of the project.

- 18 The balance energy, after adjustment of free energy, may be used/sold by the Second Party in the following manner :-
- a) Free energy shall be made available by the Second Party at the interconnection point to the HPSEBL, where HPSEBL will buy power from SHPs upto 2.00 MW, if the developer so choose, provided that free power to the State is also as per 2006 Policy and the metering shall be done at this point. For SHPs above 2.00 MW upto 5.00 MW, HPSEBL will formulate an objective, prudent and transparent power purchase policy, keeping in view load centre, evacuation cost, line losses, hydrology etc.

Solid tap connectivity at the nearest or 11 kV or 22 kV line upto 2 MW capacity generation capacity will be allowed, with appropriate protection.

To ease Liquidity, Commission will determine two sets of levelised tariff i.e. one for first 5 to 10 years, which may be higher and 2<sup>nd</sup> set for balance period

- No wheeling/transmission charges shall be payable for free energy from the generating station to the interconnection point.
- b) Make captive use or negotiate Third Party sale within the State or evacuate power for captive use or sale outside the State. The wheeling or transmission charges in this regard will be set by the HPERC based on petitions by the parties.

#### 19 TRANSFER OF PROJECT TO SUBSIDIARY GENERATING COMPANY/ DILUTION OF SHARES.

- 19.1 a) For Non-Himachalis:- The Government may consider the request of the allottee company for change in name/dilution of shares of original allottee company subject to the condition that the Original allottee shall retain the controlling interest i.e. 51% equity in the new entity upto Six months, after actual commissioning of the project and thereafter allowed to freely sell/divest the project. However, equity shares to the extent of 100% can be transferred to Himachali at any stage after allotment. In the event of any contravention, the Government of H.P. shall terminate the Consent Letter forthwith at any stage.
- 19.2 (b) For Himachalis: In case of bonafide Himachalis /Co-operative Societies/Companies/ Voluntary Societies/Trust/Partnership concerns/Sole Proprietorship concerns comprising wholly of bonafide Himachalis to whom project upto 2 MW and above 2MW to 5MW capacity is allotted, the Government may consider the request of the promoters to transfer ownership wholly or partially to any other



bonafide Himachalis / Co-operative Societies/Companies/Voluntary Societies/ Trust/Partnership concerns/Sole Proprietorship concerns comprising wholly of bonafide Himachalis, at any stage after allotment.

- 19.2 (c) In case of bonafide Himachalis to whom Projects upto 2.00 MW capacity is allotted, Change in name/dilution of shares by Himachali allottee to non-Himachalis shall be allowed to the extent of 26% at any stage and full disinvestment after six months of actual commissioning of project.
- 19.2 (d) In case of bonafide Himachalis to whom Projects above 2.00 MW and upto 5.00 MW capacity is allotted, Change in name/dilution of shares by Himachali allottee to non-Himachalis shall be allowed to the extent of 49% at any stage subject to the condition that original allottee shall retain the controlling interest i.e. 51% equity in the new entity upto six months of actual commissioning of project.
- 20 For projects upto 5 MW, HPSEB Ltd., or its successor entity shall buy the power at the tariff notified from time to time by Himachal Pradesh Electricity Regulatory Commission.
- 21 Alongwith the acceptance of the consent letter, the following shall also be furnished by the IPP: "An affidavit on a stamp paper of Rs.5/-only (duly notarized) to the effect that not more than three projects (including this project) are under execution with the allottee company/firm and the promoters of the company /fir
- 22 Other conditions of Hydro Power Policy 2006 read with amendments to the same notified from time to time shall be applicable to the developer/IPP which shall also be mentioned as, "that the Hydro Power Policy, 2006 alongwith amendments from time to time shall be abided by him during the occupancy of the project", in the affidavit to be submitted under point no. 21 above as second point.
- 23 HHIMURJA/ H.P. Government shall provide necessary assistance in obtaining clearances at State level.
- 24 This consent letter is being issued in lieu of MOU and no separate MOU shall be signed by the government.
- 25 This consent letter is being issued under the orders and authorization of Deptt. of Non-Conventional Energy Sources, Govt. of Himachal Pradesh.
- 26 If upfront premium, security charges and processing fee are not deposited within two months from the date of consent letter the project is liable to be cancelled.
- 27 In case at any stage it is found that this small hydro Electric Project is prejudice to overall optimum development of the river, the government reserves the right to cancel the allotment of the project without any liability/limitations.
- 28 The DPR of the project is to be completed within the specified time i.e. 24 months (excluding extension of 3 months) failing which project shall stand cancelled.
- 29 The State Government and the local right holders shall have the right over use of water for irrigation and drinking water supply.
- 30 The Govt. reserves the right to modify, delete or add any of the conditions, criteria, at its own discretion and shall be at liberty to withdraw the consent if at a later stage it is found that some information has been suppressed or false information has been supplied by IPP about the project.

### 31 CAPACITY EXCEEDING 5MW AFTER ENHANCEMENT.

If the capacity of the allotted project is enhanced above 5MW, all the charges payable as per Policy for the projects above 5 MW including additional free power royalty are to be paid by the applicant afresh on whole capacity of the project.

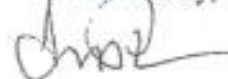
**Note:**

- (1) The DPR shall clearly bring out the percentage potential utilization of the site and it would be preferable if the DPR demonstrates that the proposal shall lead to more than 75 % of the potential utilization of the site in a 75% dependable year. Capacity utilization factor (CUF) is to be kept between 55% to 60%  $\pm$  2 %.
- (2) Capacity fixed up in the DPR shall be treated as final subject to approval from Government in case of enhancement for according TC and signing of IA.

In case of default of any of the time frame and/or conditions of this consent letter, the Government shall be at liberty to withdraw the consent and forfeit the security and the project can thereafter be granted to other suitable party.

Himurja and H.P. government welcome you to the fraternity of independent power producers engaged in the infrastructural development of the State and reiterate its commitment to facilitate entrepreneurs in the State for overall growth and development, and wish your project all the success.

Yours Sincerely,



( Er K. L. Thakur )  
Project Director cum  
Dy Chief Executive Officer,  
HIMURJA, Urja Bhawan,  
Kasumpti, Shimla-171009.

Endst. No.: - A/A

Dated: - June, 2016


1. Copy is forwarded to the following for information and necessary action:-

- i) Additional Chief Secretary /Principal Secretary/Secretary (Forests/Revenue/I&PH/PWD/ Environment & S.T./ RD & Panchayati Raj / Fisheries) to the Govt. of H.P., Shimla-2.
- ii) Principal CCF (Wild Life), Himachal Pradesh.

All the Departments are requested to render necessary assistance to the IPP to prove or otherwise the feasibility and desirability of the project and formulation of the DPR. This consent be treated as Government permission to the IPP for investigating the project and obtaining various clearances for submission of DPR and possible setting up of the Small Hydro Power Project as described in the letter above.

2. Additional Chief Secretary (NES), to the Govt. of H.P. w.r.t letter No. NES-F (2)-3/2016 dated 31.5.2016 vide which approval has been accorded.
3. The Director (SHP) MNRE Block No.-14 CGO Complex, Lodhi Road, New Delhi-110003 for information please.

4. Director, Directorate of Energy, Shanti Bhawan, Phase-III, Sector-6, Shimla-171009 for information please.
5. M.D. HPTCL Barowalia House, Kahni Shimla -171002 for information.
6. Deputy Commissioner- Mandi, Distt. Kullu, H.P.
7. The Chief Engineer (SO&P), HPSEB Ltd. Vidyut Bhawan, Shimla 171004 for information and necessary action.
8. The Sr. Project Officer Himurja-Mandi, Distt. Kullu H.P. for information and necessary action.

  
(Er. K. L. Thakur)  
Project Director cum  
Dy. Chief Executive Officer,  
HIMURJA, Urja Bhawan,  
Kasumpti, Shimla-171009.



No. SE-IPHK-WS-WA-V-NOC/2021-22- 14989-93  
Government of Himachal Pradesh  
Jal Shakti Vibhag

Dated                      Kullu                      the                      02 February, 2022

To

The Executive Engineer,  
Jal Shakti Division, No. 1 Kullu.

Sub: - Issuance of No Objection certificate for setting up of Sajla Hydel Project (2.00 MW) Tehsil Manali Distt. Kullu-HP.

As per recommendation vide your office letter No. EE-JSDK-WA-NOC/2021-17976-77 dated 24-12-2021. The NOC is being issued in favour of M/S Seraj Hydro Power Developers Devdhar P.O. Dhalpur Distt. Kullu-HP. on the following terms and conditions: -

1. The firm shall enter into legal agreement with Jal Shakti Vibhag in this respect.
2. That the Chief Engineer (MZ), Jal Shakti Vibhag, Mandi shall be the sole adjudicator of any dispute arising during construction as well as subsequently and his decision shall be binding on all the parties.
3. In case, there is any scarcity of water due to drought or any other reason, the requirement of the Jal Shakti Vibhag shall have precedence over the requirement of this Project.
4. The firm shall ensure that the quantum of minimum flow of water to be released and maintained throughout the year immediately downstream of the diversion-site in a threshold value of not less than 15% of the minimum in flow observed in the lean-season to the main river water-body whose water is being harnessed by this project. The firm shall also ensure adequate minimum environment flow in the river below the diversion-site to take care of aquatic life and ecology of the area for which contract shall install real time monitoring system for out flow to maintain minimum flow prescribed above.

5. The firm shall rehabilitate / repair/ compensate for the Jal Shakti Vibhag assets / water resource as well as Private Kuhls/ Irrigation schemes / Water Supply Schemes in case these are damaged or adversely affected due to construction of the Project. During restoration period the arrangement for providing water to the beneficiaries shall be made through tankers and other alternative possible arrangement by the firm.
6. Additional water required by the department in future in addition to the project demand will get priority over the requirements of the firm.
7. In addition to Jal Shakti Vibhag requirement, the firm will also satisfy the requirement of private users, if any.
8. That the department will have liberty to draw water from **Kanoi Nallah** (upstream and downstream) for construction of any irrigation and water supply schemes as and when required in future and if any schemes, sources of water at up and down stream of the HEP get affected, the executing agency will have to deposit the original cost of schemes including its remodeling and restoration, augmentation cost, as the case may be with the department in advance so as to make these facilities available to affected area for which the company will have no objection.
9. The present and future quantity of water for proposed WSS will be tapped by the Department from **Kanoi Nallah** upstream and downstream of the intake of the HEP and the department will have precedence over the requirement of the proposed project.
10. Company in rural area applying to the Vibhag will not be granted water from our existing schemes unless the scheme has sufficient water and the Gram Sabha of concerned Gram Panchayat pass resolutions approving the same.
11. Any damage direct or indirect caused to the water source, water supply schemes or Irrigation Schemes shall be borne by **M/S Seraj Hydro Power Project 2.00 MW Tehsil Manali Distt. Kullu-HP** with all financial and legal implication.
12. Any land required for restoration of the water source, water supply schemes or irrigation schemes shall be acquired by **M/S Seraj Hydro Power Project 2.00 MW Tehsil Manali Distt. Kullu-HP** and transferred in the name of Jal Shakti Vibhag free of cost.



13. Any cost arising due to technical/ legal implication during construction of proposed scheme shall also borne by the **M/S Seraj Hydro Power Project 2.00 MW Tehsil Manali Distt. Kullu HP.**
14. The NAC (Non Availability Certificate) and permission to make alternative arrangements shall be granted by local Jal Shakti Vibhag Executive Engineer concerned.
15. The NOC is subject to the condition that land for relaying the pipe will be made available by the project executing agency i.e. **M/S Seraj Hydro Power Project 2.00 MW Tehsil Manali Distt. Kullu-HP** and the cost of relaying will be also borne by **M/S Seraj Hydro Power Project 2.00 MW Tehsil Manali Distt. Kullu-HP**.

The above NOC is issued and ensure that there is no scheme affected anywhere up stream/ downstream of the head weirs of said SHEP.

Superintending Engineer,  
Jal Shakti Circle, Kullu-HP

Copy to the Additional Chief Secretary (JSV) to the Govt. of Himachal Pradesh Shimla for information please.

Copy to Engineer-in-Chief, Jal Shakti Vibhag, Jal Shakti Bhawan Shimla-5 for information please.

Copy to Chief Engineer (MZ) Jal Shakti Vibhag, Mandi for information please.

Copy to M/S Seraj Hydro Power Developers Devdhar P.O. Dhalpur Distt. Kullu-HP. for information and taking further necessary action please.

Superintending Engineer,  
Jal Shakti Circle, Kullu-HP



No. FSH-F (39)-226/2021-ARC-Sajla HEP- 5593  
Directorate of Fisheries,  
Himachal Pradesh.

E-mail

101

From

The Director-cum-Warden of Fisheries,  
Himachal Pradesh.



To

M/s Seraj Hydro Power Developers,  
H.No. 123, Ward No. 5, Raghunathpur,  
District Kullu (H.P.)  
Contact No: 9816090030, 9816650267

Dated Bilaspur-174001 the, 17<sup>07</sup>/<sub>2021</sub>

Subject: - Regarding issue of NOC for setting up of Sajla - (2 MW) SHEP in District Kullu, Himachal Pradesh.

Sir,

I am directed to invite a reference of your letter No. SHPD/DY. Director Fisheries/Patlikulah/NOC/2020/11, dated 24.12.2020 addressed to Deputy Director Fisheries Patlikulah (HP) on the above cited subject.

In this context, it is intimated that as per amendments in hydro power policy-006 of H.P. notified vide Notification No. MPP-F(1)2/2005-VIII, dated 04.03.2014 and clarifications received from the Principal Secretary(Power) to the GoHP vide his letter No. MPP-F(1)2/2005-IX, dated 02.08.2014, you are requested to submit duly notarized/attested affidavit for the disposal of silt and sustenance of aquatic fauna. Specimen of affidavits can be downloaded from our department's website <http://hpfisheries.nic.in/welcome.asp>.

Power of attorney/authority letter in favour of authorized signatory who shall sign the affidavits on behalf of company duly accompanied with copy of resolution passed by the Board of Directors in favour of authorized signatory may also be sent to this office.

Yours faithfully,

(Susheel Janartha)

Deputy Director of Fisheries (Hqr),  
Directorate of Fisheries, H.P. Bilaspur.  
E-mail-ddfisheries-bil-hp@nic.in  
Tel/Fax: 01978-223212, 224068

Dated:-

Endst No. As above-

Copy forwarded to Deputy director Fisheries Patlikulah (HP) for information, in reference to your office letter No. TFP-5-184/19-D-753, dated 17.03.2021.

(Susheel Janartha)

Deputy Director of Fisheries (Hqr),  
Directorate of Fisheries, H.P. Bilaspur.  
E-mail-ddfisheries-bil-hp@nic.in  
Tel/Fax: 01978-223212, 224068

Himachal Pradesh  
Public Works Department

**NO OBJECTION CERTIFICATE**

As reported by the Assistant Engineer Manali sub Division HP,PWD Manali vide his office letter No. PWMSD/W-1/NOC/2020-21-2311 dated 22-01-2021. The Proposed NOC Regarding Sajla Small Hydel Power Project (2 MW) (falling on Kanoi Nallah Tributary of Beas Kullu Distt. Kullu H.P. and the project site is 300 meter away from Kullu Manali Left bank road at RD /KM 45/535 . Hence this department has no objection for construction of above project subject to the following condition :

1. That the Company shall not stack any construction material on road side.
2. There should not be any type of traffic hindrance during the construction activities by the company.
3. That the company may ensure that no debris should be thrown on the PWD road/land .
4. No damages should be cause to the road surface, road furniture such as kilometer stone, sign board, retaining wall / breast wall by way of carriage and stacking of material . Any damage so caused shall have to be restored to its original position.
5. That in case department propose to construct any project at the area in later stage the company shall have no objection for the construction of the project.
6. Any violation of above will result in cancellation of NOC.

Executive Engineer,  
HP,PWD Division Manali ,  
at Katrain

No. PW/MD/NOC/WA/2019-20 13466-62

Dated :- 2<sup>2</sup>/<sub>22</sub>/21

Copy to Assistant Engineer Manali Sub Division HPPWD Manali for information with reference to his office letter No. PWMSD/W-1/NOC/2020-21-2311 dated 22-01-2021

Copy to the M/S Seraj Hydro Power Developers House No123 ward No. 5 Raghunathpur Kullu 175101 Distt. Kullu H.P.

Executive Engineer,  
HP,PWD Division Manali ,  
at Katrain



No./CL11/ 5150 /  
Forest Department H.P.

Dated Kullu, the/ 12-01-2021.



**From:-** Divisional Forest Officer,  
Wild Life Division, Kullu.

**To: -** M/s Seraj Hydro Power Developers,  
House No. 35 Ward No. 10 Devedhar, Kullu,  
District Kullu.

**Subject:-** **Regarding Issue of No objection certificate for setting up of Small  
Hydel Project (2.00MW) in Kullu Distt. Himachal Pradesh.**

**Si** Please refer to your letter No. SHEP/09dated 21. 08.2020, on the subject  
cited above.

2. In this connection, it is submitted that the proposed site for construction of  
~~Sajla~~ Small Hydel Electric Project, (2.00MW) near Village Sajla GP. Karjan Block  
Nagar, Distt. Kullu, HP does not fall within the boundary of nearest Manali Wild Life  
Sanctuary as well as its Eco-Sensitive Zone. The aerial distance from Manali Wild Life  
Sanctuary & its Eco-Sensitive Zone is as under:-

Name of nearest Wild Life Sanctuary	Distance from the Boundary of Sanctuary.	Distance from the Boundary of Eco-Sensitive Zones.
Manali, Wild Life Sanctuary	8.00Kms.	7.80Kms.

All the documents received vide your memo under reference are returned  
herewith in original. This is for favour of information please.

**Encl: As above .**

**Yours faithfully,**

  
Divisional Forest Officer,  
Wild Life Division, Kullu.



# कार्यालय एवं न्यायालय ग्राम पंचायत गोजरा



विकास खण्ड नगर जिला कुल्लू हि०प्र०(175143)

अध्यक्षता :- प्रधान श्री हुकम राम  
प्रस्ताव संख्या :- 06

दिनांक :- 05.12.2021  
उपस्थिति :- 85/316

## विषय:- अनापति प्रस्ताव (NOC) जारी करने वारे।

बैठक में SERAJ HYDRO POWER DEVELOPERS के आवेदन पर चर्चा की गई कि उपरोक्त निवेदक ग्राम पंचायत गोजरा के क्षेत्राधिकार कनोई नाला में SAJLA 2 MW नाम की लघु पन परियोजना के निर्माण की इच्छुक है जिसके लिये ग्राम सभा गोजरा से अनापति प्रस्ताव (NOC) बांछित है। जिस पर समस्त उपस्थित सदस्यों ने गहन विचार- विमर्श किया तथा विचार-विमर्श उपरान्त सर्व सहमति से प्रस्ताव पारित किया कि ग्राम पंचायत गोजरा को SERAJ HYDRO POWER DEVELOPERS द्वारा सजला 2 MW लघु पन परियोजना के निर्माण पर कोई आपति नहीं है तथा सशर्त अनापति प्रस्ताव (NOC) प्रदान किया जाता है।

अतः ग्राम पंचायत गोजरा द्वारा निम्न लिखित शर्तों के अनुसार SERAJ HYDRO POWER DEVELOPERS द्वारा SAJLA 2 MW लघु पन परियोजना के निर्माण के लिये अनापति प्रस्ताव प्रदान करती है

- 1) यह कि ग्राम पंचायत गोजरा में निर्मित सिंचाई योजनाओं तथा पेय जल योजनाओं को SAJLA 2 MW लघु पन परियोजना निर्माण से किसी भी प्रकार से नुकसान अगर होता है तो परियोजना निर्माता द्वारा नुकसान की भरपाई की जायेगी
- 2) यह कि परियोजना द्वारा वन्य सम्पदा की हानि कम से कम की जाये।
- 3) यह कि परियोजना में प्राथमिकता के आधार पर 70% रोजगार ग्राम पंचायत गोजरा के स्थानीय निवासियों को सुनिश्चित किया जाये।
- 4) यह कि जल शक्ति विभाग अथवा अन्य विभाग से प्रस्तावित योजनाओं के लिये यथोचित पानी का वहाव रखा जाएगा।
- 5) यह कि परियोजना का निर्माण ग्राम पंचायत की कुहल आदि के समस्त स्रोतों से उपर किया जाये तथा इसमें किसी भी प्रकार के फेर बदल करने पर अनापति प्रस्ताव निरस्त समझा जायेगा।
- 6) यह कि परियोजना द्वारा निर्मित सड़क का प्रयोग केवल संबंधित पंचायत के लोग ही करेंगे जिसमें एक चेक पोस्ट का निर्माण भी किया जाये जिसमें ग्राम पंचायत गोजरा के स्थानीय निवासी को ही कर्मचारी नियुक्त किया जाये।
- 7) यह कि सड़क का प्रयोग किसी भी तरह के अबैध कार्यों के लिये नहीं किया जाएगा।

अतः उपरोक्त वर्णित शर्तों अनुसार अनापति प्रस्ताव (NOC) जारी किया जाता है। उपरोक्त वर्णित शर्तों में किसी भी प्रकार से अनुपालना नहीं होने पर ग्राम पंचायत द्वारा जारी अनापति प्रस्ताव (NOC) को स्वतः निरस्त समझा जाएगा।



हस्ताक्षर  
दिनांक

Secretary  
Gram Panchayat Gogra  
Development Block Nagga  
Distt. Kullu (H.P.)



भारतीय गैर न्यायिक

दस  
रुपये  
रु.10

TEN  
RUPEES

Rs.10

INDIA

INDIA NON JUDICIAL

हिमाचल प्रदेश HIMACHAL PRADESH  
**AUTHORITY LETTER**

18AA-909473

It is to certify that I Rajender Dass Mahant Managing Partner of M/S Seraj Hydro Power Developers having its addmin office at House No. 123 Ward No. 4 Raghunathpur P.O. Sultanpur, Tehsil and Distt. Kullu (H.P.)-175101 do hereby authorized Sh. Tilak Raj Thakur (Project Incharge) to sign all documents related to Sajla(2.00MW) SHEP for online submission and Hard copy submission of FCA case of this Project with the Forest Department on Behalf of M/S Seraj Hydro Power Developers.

Specimen Signatures of Mr. Tilak Raj Thakur

1. 
2. 

For and behalf of M/S Seraj Hydro Power Developers

Rajender Dass Mahant

Managing Partner Authorized Signatory

Declared before me on oath  
affirmation

on the 17-02-20  
at Puthi Tilak Raj Thakur  
and with Seal

and to me  
and to me  
and to me  
and to me  
and to me

Deponent

  
M. S. Seraj Hydro Power Developers



## JOINT INSPECTION REPORT

For: SAJLA (2.00 MW) SHEP in favour of M/s SERAJ HYDRO POWER DEVELOPERS, Naggar Forest Range, Forest Division Kullu, Distt. Kullu H.P.

Date of Inspection :- 27<sup>th</sup> April, 2021

The Joint inspection of the site for the diversion of **0.80 hectare** of forest land for the above mentioned project was carried out on **27<sup>th</sup> April 2021**. The user agency had proposed three different alignments:- Alignment-1, Alignment -2 and Alignment-3 Alignment-2<sup>nd</sup> and 3<sup>rd</sup> are rejected and alignment 1 was recommended due to the reasons as mentioned against each of the headings:-

**Alignment 1:-** In the 1<sup>st</sup> Alignment **0.80 hectare** of forestland is involved with least number of trees getting affected and in this alignment no major digging of forest land will be involved for laying of penstock. Since Alignment-1 is geologically more stable, involves minimum forest land and least number of trees. Therefore Alignment-1 has been finalized.

**Alignment 2:-** Alignment 2<sup>nd</sup> involves thick forest and established crop, and the area is also prone to landslides. Moreover, topography of the same is not suitable for lying of Penstock and slopes are not stable for the construction of the Project. More forest area will be involved in this plan as compared to 1<sup>st</sup> Alignment. Therefore this alignment was not recommended

**Alignment 3:-** Alignment 3<sup>rd</sup> is technically not feasible. In this alignment if undertaken will result in head loss thereby reducing the feasibility/ viability of the project. Alignment 3 also involves lot of tunneling work & topography of the same is not suitable for laying of Penstock and slopes are not stable for the construction of the project. Therefore this alignment was not recommended.

Joint Inspection committee also found that no protected archaeological/ heritage site/ defense establishment or any other important monument is located in the area.

On inspection of the site it is found that the land required by the user agency is forest area measuring **0.80 hectares** which is unavoidable and barest minimum required for the project. There is no Burial/Cremation Place, Public Utility, Water Bourn (Spring), Foot Path etc. which shall be affected by the construction of this proposed project and there is no scope for avoidance of forest land, however all efforts have been made to minimize the use of forest land. There is no other land in the vicinity, which could be used for this purpose. As the diversion of the forest land is barest minimum & inescapable, hence the committee recommends this proposal for submission to the Govt. of India for diversion of above forest Land in the name of **M/s SERAJ HYDRO POWER DEVELOPERS**. The Total Land Tabulated as under:



Sr. No.	Name of the Mahal	Area in Sq. Meter		
		Forest Land	Private Land	Total Land
1	Padhri Chalon DPF	6413	NIL	6413
	Transmission Line(UG)	234	NIL	234
2	Sajla DPF	1327	NIL	1327
	Transmission Line(UG)	21.6	NIL	21.6
	TOTAL	7995.6		7995.6

Total Land Requirement 7996 Sqm.

Say in hector 0.80

  
 Divisional Forest Officer  
 Forest Division, Kullu HP  
 Forest Division, Kullu

  
 Range Forest Officer  
 Range Forest Officer  
 Range Forest Officer

  
 M/s Seraj Hydro Power Developers  
 Authorized Signatory  
 M/S SERAJ HYDRO POWER DEVELOPERS

  
 Sub Divisional Magistrate  
 Sub Division, Manali, Distt. Kullu HP  
 Sub Divisional Magistrate  
 Manali, Distt. Kullu (H.P.)  
  
 Tehsildar Manali  
 Distt. Kullu (H.P.)  
 तहसीलदार  
 मनाली, जिला कुल्लू



## फील्ड बुक

महाल D.F. पधरी-चलौण फाटी गोजरा केही जलमुख.  
तहसील अनाली जिला कुल्लु हिप्रो राकत अनाल।  
SHEP (2 M.W)

नाम माहिती	मन्वर रतलरा माहिती	मन्वर रतलरा हाल	इन्तरवरज राकत	इकाई किलोवाट	दिवरी
मरकार हिप्रो	विला पैमूद	तुकडा नं 1	10 x 8 = 80	0-00-80 जंगल	इ.ट.र कोरकान वाडल
		तुकडा नं 2	30 40 50 60 94 8 1 1 130 10 50 76 80 130 32 50 - 80 - 32 386 386 1 1 $= 386 \times 1$ $= 386$	0-03-86 जंगल	अमी गल इल मेकां लाईन
		तुकडा नं 3	25 x 10 = 250	0-02-50 जंगल	मक अमीग
		तुकडा नं 4	30 40 50 60 30 5 3 3 30 25 60 30 30 60 20 30 180 102 21 30 1 48 18 21 20 18 410 20 410 3 3 $= 410 \times 3$ $= 1230$	0-12-30 जंगल	मडक

નામ માલિક	નંબર રજીસ્ટ્રાર આધિકારી	નંબર રજીસ્ટ્રાર હાલ	ફોર્મલરજી રકમ	રકમ કિલોગ્રામ	વિવરણ —
સરકાર ફોર્મ	વિલા પૈથુદ	ટુકડા નં 5	30x5 = 150	0-01-50 જંગલ	મકામીયા
		ટુકડા નં 6	4x1 = 4	0-00-04 જંગલ	મુજીયાત રાત મિયાન બાકી
		ટુકડા નં 7	30 60 50 40 172 172 2 2 135 135 165 165 96 96 105 105 195 195 132 132 90 90 30 30 90 90 45 45 60 60 90 90 105 20 60 85 30 60 60 30 90 60 15 90 15 15 60 15 30 60 16 30 118 16 44 20 54 2004 2004 2 2 = 2004 x 2 = 4008	0-40-08 જંગલ	પૈથુદ રજી



नाम साहित्यिक	नम्बर रतारा आधिक	नम्बर रतारा हाल	इसतरवर ज रकवा	रकवा किसका	विवरण
सरकार हि० प्र०	विता पैशुद	डुकडा न० 8	$20 \times 8 = 160$	0-01-60 जंगल	मक डम्पिंग
		डुकडा न० 9	$20 \times 10 = 200$	0-02-00 जंगल	मक डम्पिंग
		डुकडा न० 10	$30 \times 5 = 150$	0-01-50 जंगल	डी. टैंक
		डुकडा न० 11	$5 \times 1 = 5$	0-00-05 जंगल	स्कोटर पार्किंग
		डुकडा न० 12	$5 \times 3 = 15$	0-00-15 जंगल	फ्रीडर पार्किंग
		डुकडा न० 13	$5 \times 3 = 15$	0-00-15 जंगल	ग्रेवल टैपर
		डुकडा न० 14	$15 \times 10 = 150$	0-01-50 जंगल	वीयर साइट

*[Signature]*  
04/04/2021  
पटवार पुन, जगज कुल  
महो नवाली, जिला कुलु (हि० प्र०)

*[Signature]*  
4/4/21  
Field Kanungo  
Kanungo Circle  
Jagat Sukh, Teh. Manali,  
Distt. Kulu (H.P.)

# સૂચી માલકાન

મહાન D.P.F. પધરી-પલોન જાતી સોગા કાઠી ખાતુરુવ  
તદ્દસીન માની સિત કમલ ફોપો તાત લગા  
SHEP (20M.W).

નંબર	નંબર સોગી	નામ સાલિક	નામ કાચતકા	નામ સવસરા	સવસરા કિલોગ્રામ	વિવરણ
—	—	સાકાર ફોપો	તા. પિચા	ડકડા-૧૦૧	૦-૦૦-૩૦ જંગલ કરૂર કોન્ટેન વાડેર ૦-૦૩-૩૬ જંગલ સુમિત્રા પ્રાણ મિશન બાંકી	નોંધ: કિલો સુમિ મો કા કાતી રી ૦ પ્રત્યક્ષ કિલો સુમિ તાત રાહી ને રૂ દે.
				ડકડા-૧૦૨	૦-૦૨-૫૦ જંગલ સક ડિપી	
				ડકડા-૧૦૩	૦-૧૨-૩૦ જંગલ મડક	
				ડકડા-૧૦૪	૦-૦૧-૫૦ જંગલ સક ડિપી	
				ડકડા-૧૦૫	૦-૦૦-૦૫ જંગલ સુમિત્રા પ્રાણ મિશન બાંકી	
				ડકડા-૧૦૬	૦-૪૦-૦૮ જંગલ પેન રીક	
				ડકડા-૧૦૭	૦-૦૧-૬૦ જંગલ સક ડિપી	
				ડકડા-૧૦૮		

ਨੰਬਰ ਰੇਕੌਰ	ਨਵਰ ਸ਼ੀਟੀ	ਸਮਾਂ ਸਾਲਿਕ	ਸਮਾਂ ਕਾਭਰੀਕਾਰ	ਸਮਾਂ ਸਮਾਂ	ਸਮਾਂ ਕਿਸਮਤ	ਸਮਾਂ ਕਿਸਮਤ
-	-	ਲੰਗਵੀ ਫਿਸ਼	ਵਨ ਵਿਭਾਗ	ਦੁਕਾਨ - 9	0-02-00	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-01-50 ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-05
				ਦੁਕਾਨ - 10	0-00-15	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-15
				ਦੁਕਾਨ - 11	0-00-15	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-15
				ਦੁਕਾਨ - 12	0-00-15	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-15
				ਦੁਕਾਨ - 13	0-00-15	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-15
				ਦੁਕਾਨ - 14	0-00-15	ਜੇ.ਲੀ. ਸਕ. ਸਮੇਤ 0-00-15
			ਜੋਡ: ਸਮੇਤ	ਕਿਤਾ 14	0-68-03	ਅਕੁਲ ਜੇ.ਲੀ.

Field Kanungo  
Kanungo Circle  
Jagat Sukh, Teh. Manali,  
Dist. Kulu (H.P.)

ਸੂਚੀ ਅਨੁਸਾਰ  
ਜੇ.ਲੀ. ਸਮੇਤ  
0-00-15, ਸਕ. ਸਮੇਤ  
0-00-15, ਸਕ. ਸਮੇਤ  
0-00-15, ਸਕ. ਸਮੇਤ



फील्ड बुक  
महाल D.I.F. सजला सिंहल फाटी सजला कौडी लखनौ  
तहसील मनाली जिला कुल्लू हि.प्र. वावत  
सजला SHEP (2 MW).

नाम मालिक	नम्बर शबरा माबिक	नम्बर शबरा हाल	इस्तखरा रकवा	रकवा किसमत	विवरण
सकार हि.प्र.	विला पैबद	डुकडा-1	$25 \times 2 = 50$	0-00-50 जंगल	रेल ईस
		डुकडा-2	$36 \times 1 = 36$	0-00-36 जंगल	अमिता त्रामि लोडिन
		डुकडा-3	$30 \times 10 = 300$	0-03-00 जंगल	मक उमिया
		डुकडा-4	$40 \times 20 = 800$	0-08-00 जंगल	जावव हाउस + स्वीच यार्ड
		डुकडा-5	$15 \times 3 = 45$	0-00-45 जंगल	सड़क
		डुकडा-6	$66 \times 2 = 132$	0-01-32 जंगल	पेन स्लैक

04/04/21  
पट र पुन, हि.प्र.  
वहो मनाली, जिला कुल्लू (हि.प्र.)

वहो 4/4/21  
Fleld Kanungo  
Kanungo Circ. 3  
Jagat Sukh, Teh. Mani  
Distt. Kullu (H.P.)

104

24-11-21

2015

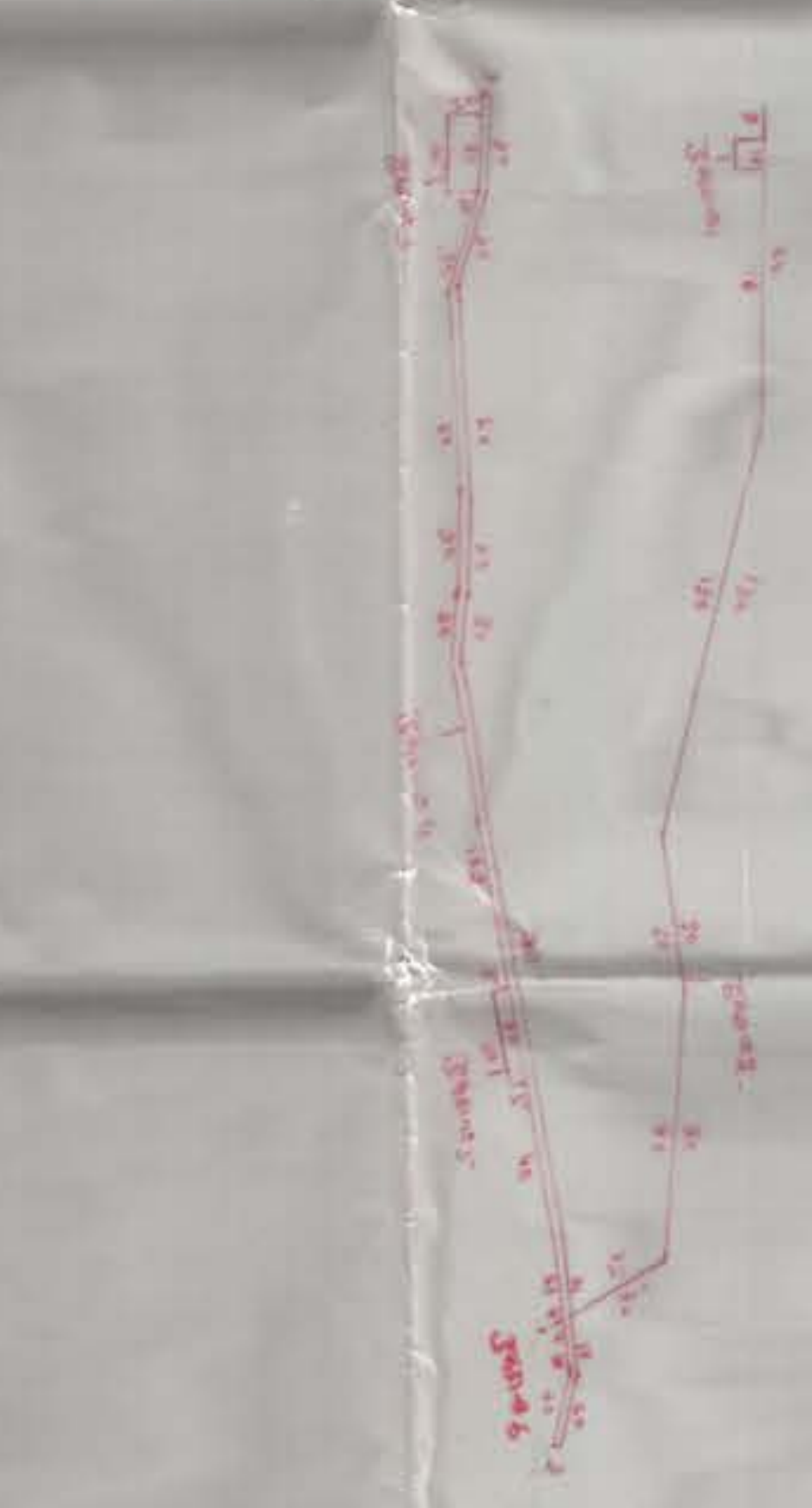
Fileid Kanungo  
Kanungo Circle  
Jagal Sukh, Teh. Manali,  
Distt. Kuliy (H.P.)



तीला येका साल DPF पुरी-पुलीत कोही येका कोही लागतुय तरेकीन आली  
तिला कोळ पुरी को ही येका SMD (2mm)

उपरा

पुलीत व तिला  
को ही येका



पुलीत, पुलीत येका साल SMD (2mm) उपरा 0.5

- (1) पुलीत येका साल SMD (2mm) उपरा 0.5
- (2) पुलीत येका साल SMD (2mm) उपरा 0.5
- (3) पुलीत येका साल SMD (2mm) उपरा 0.5
- (4) पुलीत येका साल SMD (2mm) उपरा 0.5
- (5) पुलीत येका साल SMD (2mm) उपरा 0.5

पुलीत, पुलीत येका साल SMD (2mm) उपरा 0.5

पुलीत, पुलीत येका साल SMD (2mm) उपरा 0.5



तृतीया श्रेणी का महाल DPF सजला सिंह काली भजला कौली बरखाई  
तहसील बनवली जिला कुल्लुब सिंगर काली भजला SHEP (SHEP)

ਭੈ ਮਾਨੀ ਤੇ ਹਿੰਮਤ  
ਕਿ ਮਨੀ ਸੀ ਕਿ ਮਨੀ

354

Amirul  
Khan  
9/1/21



श्रीमान जी, प्रस्तावित प्रोजेक्ट अजला SHEEP (RAMP) लु काज D82  
अजला सिटल निगालिजित निगोवाज जाये अये.  
अजले सबकाय किछो के है।

- [illegible]

[illegible]

ॐ नमो भगवते वासुदेवाय