

**CHECK-LIST**  
**OF**  
**DOCUMENTS/INFORMATION REQUIRED FOR PROPOSAL**  
**FOR DIVERSION OF FOREST LAND FOR NON FORESTRY USE**  
**UNDER FOREST (CONSERVATION) ACT, 1980**

**FOR STAGE-I APPROVALS**

**I Documents/Information Required for All Proposals**

S.No.	Name of the Document (s)	Provided or Not	If not Provided Why?	Page Number
1	Check-list of the project proposal	Yes	-	1-7
2	Demand letter of the project authority/ applicant, if submitted.	Yes	-	8
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 <b>Part-I of Form-A</b> including item-wise breakup of the forest area required, must be given in the form itself by expanding the columns	Yes	-	9-15
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	-	16-21
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	-	22-23
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	-	24



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 (in the prescribed format).	Yes	-	25
8	Statement showing the details of non-forest area involved in the proposal (in the prescribed format).	Yes	-	26
9	Certificate from the Collector/Deputy Commissioner that no alternative suitable non-forest land is available for the project in question.	Yes	-	27
10	Justification for locating the project in forest area to be submitted by User Agency and countersigned by DFO.	Yes	-	28-29
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 (in the prescribed format).	Yes	-	30
12	Undertaking by the User Agency to bear the cost of compensatory afforestation duly counter signed by the DFO (in the prescribed format).	Yes	-	31
13	Undertaking by the User Agency to pay the Net Present Value (NPV) of the forest land involved duly countersigned by DFO (in the prescribed format).	Yes	-	32
	Undertaking by the User Agency to pay the Additional Net Present Value (NPV), if any, of the forest land involved duly countersigned by DFO (in the prescribed format) as decided at a later date as per the decision of the Supreme Court.	Yes	-	33
14	<p>A certificate from the competent authority in the State in the prescribed (vide MoEF letter No. 11-9/98-FC (pt.) dated 5<sup>th</sup> July 2013) 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</p>	No	Under Process	34



	supporting that settlement of rights under the FRA will be initiated and completed before the final approval, is enclosed with the proposal (vide F. No. 11-179/2012-FC Dated: December 20, 2013).			
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	-	35-46
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	-	47
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	-	48-50
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	-	51-52
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.	Yes	-	53
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> ).	-	-	-
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.			
22	In case of proposal which requires entry/exit through Protected Forest strips along			



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	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.			
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.			

II Documents/Information Required for Proposals for Roads, Railway Lines, Canals and Transmission Lines				
31	The following information/documents must be given :- a) Length and width of Road/Railway line/ Canal/ Transmission line passing through forest and non forest area. b) In case of expansion of already			yes



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	<p>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 <b>may also</b> 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>			
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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</p> <p>c) Copy of Techno-Economic Clearance</p> <p>d) Copy of Implementation Agreement</p> <p>e) NOC from Irrigation and Public Health Department</p> <p>f) NOC from Fisheries Department</p> <p>g) Authorization to the applicant by the Project Authority</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> <p>a) Certificate from the competent authority like District Mining Officer/Geologist, regarding non-availability of the same mineral/ore in the nearly non-forest area.</p> <p>b) Estimated reserve of each mineral/ore in the forest area and non-forest area.</p> <p>c) Total area demanded and extent of forest area involved in the proposed</p>			



	<p>mining lease shown in distinct colours on relevant maps</p> <p>d) Proposed period of mining lease.</p> <p>e) Minimum distance of the proposed site from Wildlife Sanctuary and National Park.</p> <p>f) A copy of the mining plan duly approved by IBM, Nagpur.</p> <p>g) Phased reclamation plan of the project area.</p> <p>h) Copy of lease deed/agreement entered into with the district authorities.</p> <p>i) 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.</p> <p><b>II) In case of renewal of Mining Lease</b></p> <p>a) 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.</p> <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</p>			
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	proposal.			
	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.			

<b>V Documents/Information Required for Proposals for Retail Outlets of an Oil Companies</b>				
34	<p>The following information/ documents must be given :-</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.....*NPV*  
Place.....*Revenue paper*  
Seal\_\_\_\_\_

*Yes*  
Divisional Forests Officer  
.....Forest Division  
Office

*54*  
*54-61*  
*hmg*  
Divisional Forest Officer  
Suket Forest Division  
Sundemagar (H.P.) - 175018





No. 5-4/1/2019 - BBMB  
Government of India  
Ministry of Power

New Delhi, the dated 2<sup>nd</sup> October, 2019

To  
The Chairman  
Bhakra Beas Management Board  
Sector 19/B, Madhya Marg,  
Chandigarh

Subject: Execution of 40MW (2x20MW) Baggi Power House by BBMB.

Sir,

I am directed to refer to BBMB's letter No. 30245/B-103/Baggi/IP dated 19.09.2019 on the above mentioned subject and to convey herewith the approval of Competent Authority to formally assign the work of construction and execution of Baggi Power House to BBMB.

This issues with the approval of Hon'ble Minister of State (I/C) for Power and NRE.

Yours faithfully,

  
(Rita Singh)

Under Secretary to the Govt. of India  
Telefax: 23766242



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**Project Title: - C/o Hydro Electric Power Project Baggi (2x21 MW) in Tehsil Balh, District Mandi H.P**

**FORM 'A'+**

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

**PART-1**

(TO BE FILLED UP BY USER AGENCY)

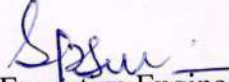
Sr. No.			
1.		Project details	
	(i)	Short narrative of the proposal and Project/Scheme for which the forest land is required.	The forest land is required for Diversion of <b>0.8700 ha.</b> for <b>C/o Hydro Electric Power Project Baggi (2x21 MW) in Tehsil Balh, District Mandi H.P</b> Detail attached page ____.
	(ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map	The contour map on 1:50000 scale showing the required forest area, boundary of adjoining forests is attached as page ____.
	(iii)	Cost of Project.	Estimated cost for construction of this project will be approximately <b>Rs. 28,487 Lacs. (284.87 Crore)</b>
	(iv)	Justification for locating the project in forest area.	Detail attached page <u>26</u> .
	(v)	Cost benefit analysis (to be enclosed)	Detail attached page ____.
	(vi)	Employment likely to be generated.	About <b>640157</b> man days will be generated directly as a result of construction activity of the Project. Besides, due to increased economic activity in the area, many indirect opportunities of employment.
2.		Purpose wise break up of total land required.	The item wise breakup of required forest area <b>0.8700 ha.</b> Attached at page no. ____.
3.		Details of displacement of people due to the project, if any	No displacement of people is involved.
	(i)	Number of families,	Not applicable
	(ii)	Number of scheduled castes/schedules tribe families.	Not applicable
	(iii)	Rehabilitation plan (to be enclosed)	Not applicable
4.		Whether clearance under Environment (Protection) Act, 1986 required?	Not required.
5.		Undertaking to bear the cost of raising and maintenance of compensatory afforestation / additional compensatory afforestation as well as cost of protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed)	Undertaking attached.



6.	Details of Certificates/documents enclosed as required under the instructions.	<ol style="list-style-type: none"> <li>1. Demand letter of the project authority.</li> <li>2. Detailed project note.</li> <li>3. Kh. No. wise detail of forest and non forest land.</li> <li>4. Index map.</li> <li>5. Joint inspection report.</li> <li>6. Detail of non forest area involved in the proposal</li> <li>7. Justification for locating the project in forest area.</li> <li>8. Certificate regarding minimum use of forest land.</li> <li>9. Information regarding length and width of Road in forest area.</li> <li>10. Undertaking regarding payment of cost of CA.</li> <li>11. Undertaking regarding payment of cost of NPV.</li> </ol>
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Date 10/09/2021

Place Sundernagar

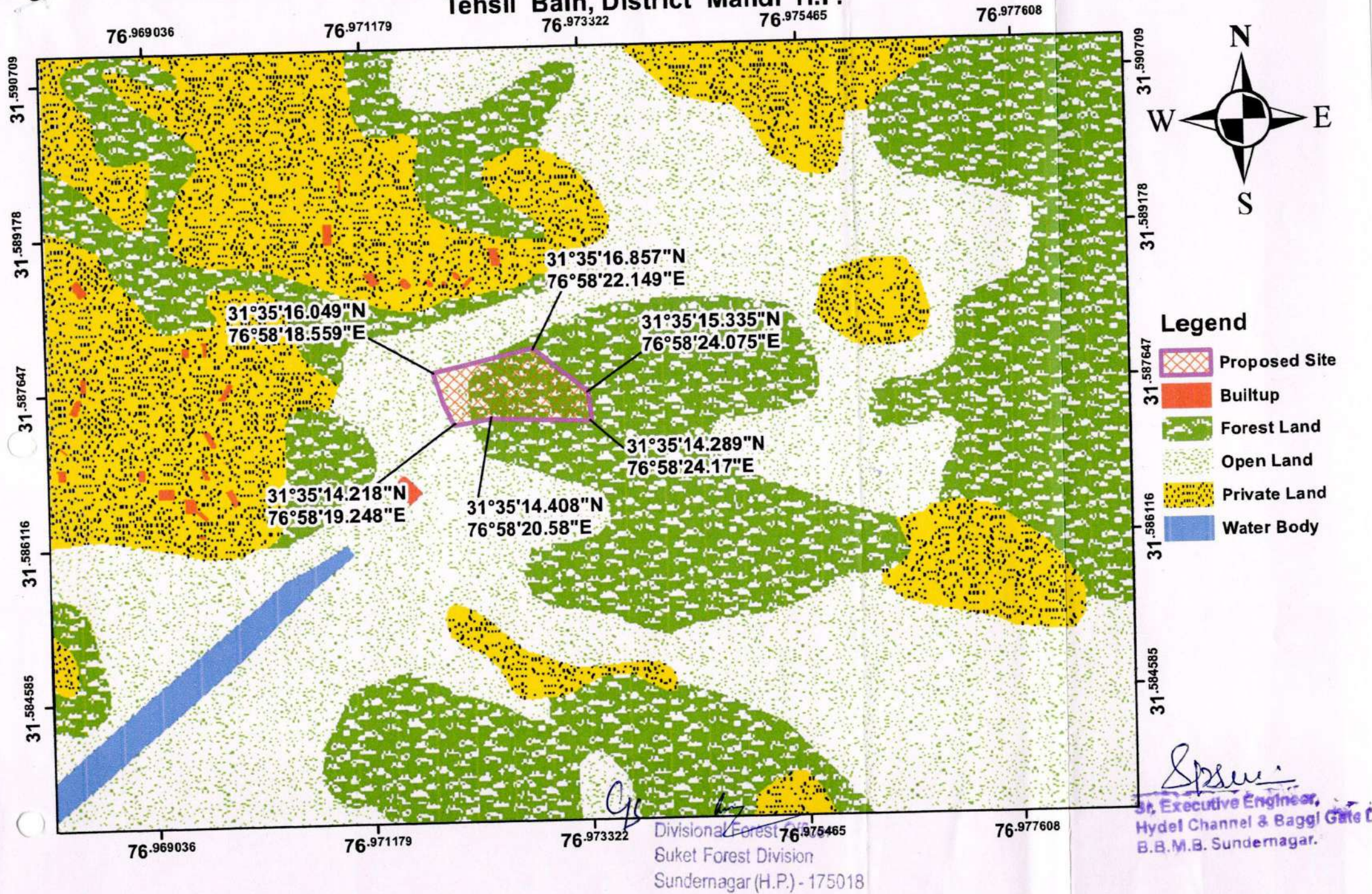
  
 Sr. Executive Engineer,  
 Hydel Channel & B.G. Division,  
 B.B.M.B. Sundernagar, Distt. Mandi, (HP).

**Countersigned by:-**

Divisional Forest Officer  
 Suket, Forest Division,

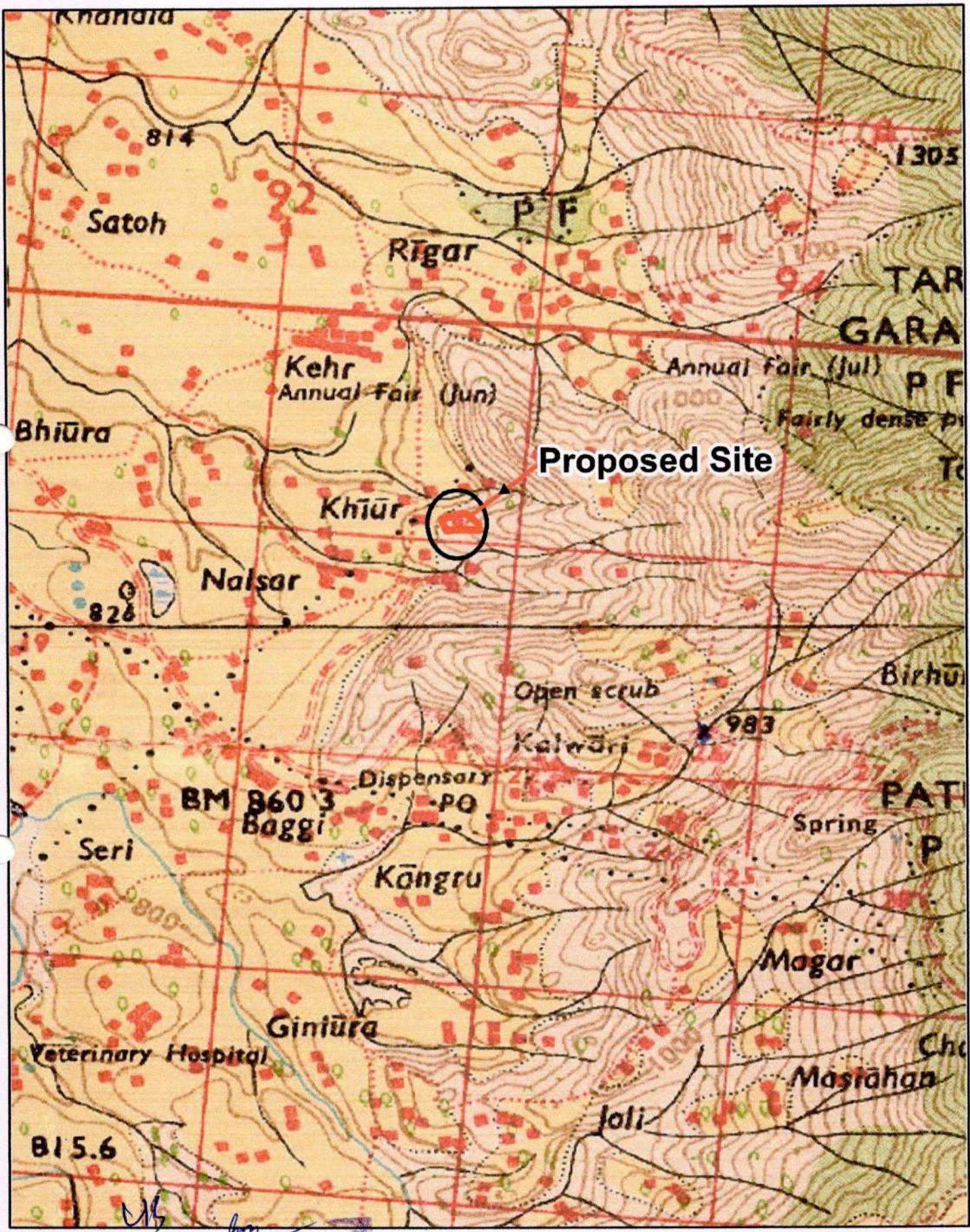


# Digital Landuse Map for Proposed Site C/O C/O Hydro Electric Power Project Baggi (2x21 MW ) in Tehsil Balh, District Mandi H.P.





Topo Sheet:-Proposed Site C/O C/O Hydro Electric Power Project Baggi (2x21 MW)  
in Tehsil Balh, District Mandi H.P.



Index

Proposed Site

Divisional Forest Officer  
Buket Forest Division  
Baggi (H.P.) - 1750



Spur  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Div.  
B.B.M.B. Sundemagar.

Scale 1:50000

Topo Sheet No.53A/14







CHECK LIST SERIAL NUMBER:-07

C/o Hydro Electric Power Project Baggi (2x21 MW) in Tehsil Balh, District Mandi H.P

STATEMENT SHOWING DETAILS OF FOREST AREA PROPOSED FOR DIVERSION

Sr.No	District	Division	Range/Tehsil/Village	Khasra/Survey or Compartment No. of KM. Stone	Forest Area proposed for Diversion (ha.)	Legal Status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Mandi	Suket	Khiuri Dom/285	501/1	0.8700	Charagh Vila Drakhtan	
				Total in Hectare	0.8700		

  
Divisional Forest Officer  
Suket Forest Division,  
District Mandi H.P  
Sundernagar (H.P.) - 175018



## CHECK LIST SERIAL NUMBER:-08

C/o Hydro Electric Power Project Baggi (2x21 MW) in Tehsil Balh, District Mandi H.P

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

Sr.No	District	Division	Range/Tehsil/Village	Khassa/Survey or Compartment No. of KM. Stone	Non-Forest Area proposed for Diversion (Ha.)	Legal Status of Forest Area	Remarks
1	2	3	4	5	6	7	8
1	Mandi	Suket	Khiuri Daum/285	467/1	0.1701	Barani Abbal	
				Total in Hectare	0.1701		

*[Signature]*  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundarnagar.

Divisional Forest Officer  
Suket Forest Division,  
District Mandi H.P



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**

**CHECK LIST: 13-A**

**UNDERTAKING FOR PAYMENT OF ADDITIONAL NPV OF FOREST AREA**

I Addl. Superintending Engineer, Hydel Channel & Baggi Gate Division, BBMB Sundernagar, H.P. here by undertake to pay Additional amount for NPV in lieu of the forest area diverted for 0.8700 ha. of forest Land for C/o Hydro Electric Power Project Baggi ( 2 x 21 MW) in Tehsil Balh, District Mandi H.P.

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

Date 15-11-2022  
Place Sundernagar

  
Sr. Executive Engineer,  
Hydel Channel and B.G. Division,  
BBMB Sundernagar, Distt. Mandi (H.P.)

Countersigned by:-

  
Divisional Forest Officer  
Suket Forest Division.



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**

**CHECK LIST: 12**

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

I Addl. Superintending Engineer, Hydel Channel & Baggi Gate Division, BBMB Sundernagar, H.P. hereby, undertake to pay the entire amount for compensatory Afforestation in lieu of the forest area i.e. 0.8700 ha. of forest land diverted for C/o Hydro electric Power Project Baggi (2 x 21 MW) in Tehsil Balh District Mandi H.P.

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

Date 15-11-2022  
Place Sundernagar

  
Sr. Executive Engineer  
Hydel Channel and Baggi Gate Division  
BBMB Sundernagar, Dist. Mandi (H.P.)

Countersigned by:-

  
Divisional Forest Officer  
Suket Forest Division.



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**

**CHECK LIST: 11**



**CERTIFICATE FOR MINIMUM USE OF FOREST LAND**

This is to certify that the forest area involved in the proposal for 0.8700 ha. of forest land for C/o Hydro Electric Power Project Baggi ( 2 x 21 MW) in Tehsil Balh, District Mandi H.P. is unavoidable and barest minimum forest area i.e. 0.8700 ha.

Area which is proposed for diversion.

Date 15-11-2022

Place Sundernagar

  
Sr. Executive Engineer,   
Hydel Channel and B. & Baggi Gate, Dist. Mandi  
B.B.M.B. Sundernagar. Distt.- Mandi (H.P.)

Countersigned by:-

  
Divisional Forest Officer  
Suket Forest Division.



**Proposal Title: C/o Hydro Power Project Baggi ( 2x21 MW)**

**CHECK LIST -13**


**UNDERTAKING FOR PAYMENT OF NPV OF FOREST AREA**

I Sr. Executive Engineer, Hydel Channel & Baggi Gate Division, BBMB Sundernagar (H.P.) hereby undertake to pay Net Present Value (NPV) in lieu of the forest area diverted for 0.8700 ha. of forest land for C/O Hydro Electric Power Project Baggi ( 2x21 MW) in Tehsil Balh, District Mandi (H.P.)

I hereby undertake to pay the NPV of the above forest land as and when demanded by the forest department.

Date 17-11-2022

Place Sundernagar

  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Division,  
BBMB, Sundernagar.

Countersigned by:-

  
Divisional Forest Officer,  
Suket Forest Division



## **BRIEF NOTE ON C/o OF HYDRO ELECTRIC POWER PROJECT BAGGI (2 x 21 MW)**

### **INTRODUCTION :**

Bhakra Nangal and Beas Projects were originally the joint ventures of erstwhile states of Punjab and Rajasthan. On re-organisation of the erstwhile state of Punjab on November 1, 1966 Bhakra Management Board was constituted under section 79 of the Punjab Reorganisation Act, 1966 for the administration, maintenance and operation of Bhakra Nangal Project (copy attached).

The Beas Project works, on completion, were transferred to Bhakra Management Board and it was renamed as Bhakra Beas Management Board (BBMB) i.e. 15.05.1976 (copy enclosed).

### **PROJECT HISTORY :**

During the construction of Beas Sutlej Baggi Power Project, it was conceived that a Power Plant could be constructed at the exit of Pandoh Baggi Tunnel as sufficient head was available between Pandoh Reservoir and at the start of Sundernagar Hydel Channel (SNHC). Consequently, a Bypass Tunnel at 170 metres was constructed to divert the water for the prospective plant. Baggi Power Plant, an extension of BSL Project was proposed to have two units of 20 MW each on the basis of head and water availability. Keeping in view the safety of vital water conductor system link of Beas Sutlej link (BSL) Project, transient studies have to be conducted for feasibility of the proposed Baggi Power Plant and due to this the execution of this project had been delayed due to one of this and other reasons. However, some of the components of this proposed Baggi Hydro Electric Power Project were constructed during the construction of BSL Project.

### **PROJECT ALLOTMENT FOR EXECUTION:**

Allotment of Baggi HEP in favour of Bhakra Beas Management Board has been made by HP Govt vide Special Secretary (Power) to Govt. of Himachal Pradesh vide letter no. MPP-1-(2)-12 dated 10.07.2019 (copy enclosed) and further approved for execution of this project by BBMB has been conveyed by Ministry of Power, Govt of India vide Under Secretary to the Govt. of India letter no. 5-4/1/2019-BBMB dated 22.10.2019 (copy enclosed).

### **PROJECT LOCATION:**

The proposed Baggi Power Plant (42 MW) is located on National Highway No.21 about 12 KM upstream of Sundernagar Town in District Mandi of Himachal Pradesh. The scheme is located between latitude 31°35'11.60" to 31°35'16.37" N and longitude 76°58'14.10" to 76° 58'22.97" E

### **TYPE OF PROJECT :**

The proposed Baggi Power project will harness the head available between Pandoh Reservoir Level of Sundernagar Hydel Channel at Baggi which is at present being dissipated through a stilling basin downstream of Baggi Control Works (BCW). The existing by-pass tunnel of dia 6.1 m will be used as a headrace tunnel for feeding the powerhouse. The gate being used for closing the by-pass tunnel will be used as an emergency gate for closing the powerhouse. It is a run-of-river scheme utilising a variable head from 21.34 m to 49.54 m depending upon the discharge in Pandoh Baggi Tunnel (PBT).

As per the present Hydro Potential studies for proposed Baggi Power Plant, the capacity of power plant has been revised to **42 MW** consisting of two units each one of 21 MW capacity. The Major components of the proposed Baggi power project are as under :



S.No.	Project Component	Status
1.	Bypass Tunnel	Already constructed during the construction of BSL (P)
2.	Surge Shaft	Already Constructed upto EL 859.0 m during construction of BSL (P). However to be extended/constructed upto EL 892.0 m
3.	Catcher Chamber	To be constructed
4.	Penstock header and Penstock	Already constructed and only steel liner to be fixed
5.	Power House	To be constructed
6.	Tail Race Channel	To be Constructed
7.	Switchyard	To be constructed

Detailed Layout plan of the proposed Baggi Power plant showing its components has been enclosed with. The salient features of the project components are as under :

**SALIENT FEATURES :**

**BY PASS TUNNEL**

(Already Constructed)

Number 01  
Shape & size Circular 6.10 m dia  
Length 32.0 m  
Design discharge 174 cumec

**SURGE SHAFT**

Type Orifice type  
Diameter a) 7.0 m dia from EL 842.21m to 882 m  
b) 10.0 m dia from EL 882 m to EL 892 m  
Height 49.79 m

**CATCHER CHAMBER**

Diameter 33.0 m  
Height 14.40 m (from EL 882 m to EL 896.4 m)

**PENSTOCK HEADER**

Number 01  
Type Circular, steel lined  
Diameter 6.10 m  
Length 160.60 m  
Thickness of steel liner 18 mm

**PENSTOCK**

Number 02  
Type Circular, steel lined  
Diameter 4.40 m  
Length 45.12 m  
Thickness of steel liner 18 mm

**POWERHOUSE**

Type Surface Power House



Type of Turbine	Vertical Francis
Design Discharge- 2 Units	119.6 Cumecs
Installed Capacity	42 MW ( 2 x 21 MW)
Maximum Head	49.54 m
Net Design head	38.94 m
Minimum head	21.34 m

#### **Turbine**

Type of Turbine	Francis
Maximum Output	23.45 MW
Rated Output	21.32 MW

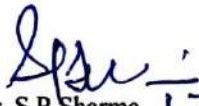
After Finalisation of Survey and layout plan of proposed Baggi Power Plant, layout plan was marked on ground and as per this layout plan, detail of land requirement for Baggi Hydro Power project along with the status of land is as under:

Sn.	Land Khasra No./Muhall	Type of Land (Forest/Non-Forest)	Area of Land required (Hectare)	Project Component falling under Land Khasra	Ownership Of Land	Remarks
1.	501/1 /285 Khairi Daum	Forest land	0.87 Hect.	Surge Shaft and its Catcher Chamber	H.P Forest Deptt.	Alignment of Surge Shaft fixed as the portion of Surge Shaft was already constructed during Nineteen Seventies on this land
2.	467/ 285 Khairi Daum	Non Forest Land	1.17 Hect.	Protection works and working space for Catcher Chamber of Surge shaft	Private	Protection works and working space area required for Catcher Chamber of Surge shaft falls on this Khasra land for which 0.17 Hect. Pvt. Land will be acquired
3.	472/285 Khairi Daum	Non forest Land	0.27 Hect	Project Road & Main Pandoh Baggi Tunnel	BBMB	Already under BBMB Possession
4.	473/285 Khairi Daum	Non Forest land	1.81 Hect.	Existing Baggi Control Works and Part of proposed Power house	BBMB	Already under BBMB possession
5.	474/285 Khairi Daum	Non Forest Land	1.01 Hect	Tail Race Channel and Power House of Baggi HEP	BBMB	Already under BBMB possession
6.	292/282 Khairi Awwal	Non Forest Land	12.09 Hect.	Switchyard of Baggi HEP	BBMB	Already under BBMB possession
7.	240/285 Khairi Dom	Non Forest Land	2.15 Hect.	Dumping Site For Baggi HEP	BBMB	Already under BBMB possession



From above detail, it is evident that almost all components of Baggi HEP falls under BBMB Khasra land which is a non forest land and Surge Shaft and its Catcher Chamber structure falls in Khasra No. 501, Mohal Khuri Dom (ekgksy& jwjh nkse a and as per the revenue record this land comes under the definition of Forest land of HP Govt. Portion of Catcher Chamber also falls under Land Khasra no. 467/285 Khuri Daum and as per the land revenue record, this is a non-forest private land.

It is pertinent to mention here that since the location of Surge Shaft is already fixed and portion of Surge Shaft of height is already constructed which has to be further extended upto 49.79 m height. Therefore, location /layout of this component neither can be altered nor can be changed. Hence keeping in view of the same Non-availability of Non forest land Certificate has also been obtained from District Collector Mandi vide his Office letter no. 82-83 dated 02-01-2020.


  
Er. S.P Sharma 17/11/2022  
Sr. Executive Engineer  
HC & BG Division, PSI (P)  
Sr. Executive Engineer,  
BBMB, Sundernagar  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**

**CLARIFICATION REGARDING DUMPING SITE**

It is certified that as per the observation at point No. 04 raised by your good office the Muck generated will be dumped in open site which is suitable for dumping. The Proposed open space is a non- forest land which already under the ownership of BBMB and after dumping the said space can be used to store old machinery. There is no need of forest land for dumping site.

  
Er. S.P. Sharma 25/11/2022  
Sr. Xen,  
HC & BG Divn., SNR.



हिमाचल प्रदेश HIMACHAL PRADESH

D 041941


#### PRE-IMPLEMENTATION AGREEMENT

**PRE-IMPLEMENTATION AGREEMENT BETWEEN GOVERNMENT OF HIMACHAL PRADESH AND BHAKRA BEAS MANAGEMENT BOARD FOR THE INVESTIGATION AND IMPLEMENTATION OF BAGGI HYDRO-ELECTRIC PROJECT (42 MW) IN BEAS RIVER BASIN IN HIMACHAL PRADESH.**

This PRE-IMPLEMENTATION AGREEMENT (PIA) entered into on this 26<sup>th</sup> day of **August** in the year **Two Thousand and Twenty Two** between the Governor of Himachal Pradesh through Sh. Harikesh Meena, IAS, Director, Energy, Government of Himachal Pradesh having its office at Shanti Bhawan, Phase-III, Sector-6, New Shimla, Shimla (H.P.) (here-in-after referred to as the "First Party" which expression, unless repugnant to the context or meaning thereof, shall include its successor(s) administrator(s) or permitted assigns), of the **FIRST PART**.

**AND**

**Bhakra Beas Management Board** (here-in-after referred to as the "BBMB"), (constituted as per provisions of Section 79 (1) read with Section 80(6) of Punjab Re-organization Act, 1966), having its registered office at Sector 19-B, Madhya Marg, Chandigarh - 160019 (here-in-after referred to as the "Second Party" which expression shall unless repugnant to the context or meaning thereof be deemed to mean and include its successor(s), administrator(s), and permitted assigns through Sh. Satish Singla, Secretary who has been duly authorized to execute the Pre-Implementation Agreement, of the **SECOND PART**.

  
Director,  
Directorate of Energy,  
GoHP, Sector-6, Phase-III,  
New Shimla-171009

  
Satish Singla  
रुपि, Secretary,  
बहाकुर प्रजेक्ट, BBMB





26/08/20

50975  
Sr. No. \_\_\_\_\_ Date \_\_\_\_\_  
Name \_\_\_\_\_  
S/o, D/o, W/o \_\_\_\_\_  
Age \_\_\_\_\_  
Teh \_\_\_\_\_  
Throu \_\_\_\_\_  
Purpose \_\_\_\_\_  
H. No. 17 Sector 35 C  
H. No. 17 Sector 35 C  
Chandigarh

VARSHA KASHYAP  
Stamp Vendor  
D.C. Office Shimla (R) (H.P.)-171001

सचिव  
राज्य सरकार  
शिमला

**WHEREAS,** Baggi Hydro Electric Project (HEP) (here-in-after referred to as the "Project"), on the river Beas in Mandi District in the State of Himachal Pradesh, with an indicative capacity of 42 Megawatt (MW) are contemplated to be taken up for implementation;

**WHEREAS,** the BBMB has approached the Government of Himachal Pradesh (GoHP) for allocation / allotment of Baggi (42 MW) HEP; and


**WHEREAS,** the First Party has allotted Baggi (42 MW) HEP to the Second Party (herein after referred to as the "Project"), on the river Beas in Mandi District in the State of Himachal Pradesh.

**WHEREAS,** the following clauses shall be incorporated at the time of signing of Implementation Agreement (IA):

- (i) The clause regarding use of facilities by the general public.
- (ii) The clause regarding disposal of blasting muck and the clause regarding preparation of disaster management plan.
- (iii) The clause regarding lease amount for acquiring Government / Forest land.
- (iv) The clause regarding validity of agreement period, Constitution of a Committee to review and monitor various matters during the implementation of the projects.
- (v) The clause regarding taking remedial measures to mitigate adverse effects on roads, buildings, bridges, power systems, water mills etc.
- (vi) The clause regarding opening of police station / chowki and labour office in project area.
- (vii) The clause regarding setting of forum of Hydro Power Producers.

**NOW THIS PRE IMPLEMENTATION AGREEMENT BETWEEN THE PARTIES HERETO WITNESSES AS FOLLOWS:**


1. The Second Party is desirous of and has submitted its proposal to the First Party for investigations and implementation of the proposed Baggi Hydro-electric Power Project (42 MW) in Mandi District of Himachal Pradesh.
2. The First Party has accepted the proposal of the Second Party and has agreed, in principle, to allow them to investigate the Project subject to fulfillment of terms and conditions of this Pre-Implementation Agreement by the Second Party in accordance with the provisions of the Policy.
3. In case of failure of the Second Party to adhere to the benchmarks as per Pre-Implementation Agreement resulting in extension of time, the extension fees specified shall be made payable to the Chief Engineer, Directorate of Energy, Government of Himachal Pradesh. This clause shall be applicable only in exceptional circumstances.
4. The Second Party agrees to supply free of cost to the First Party the Hydrological and Meteorological data observed at the project site, on quarterly basis. The First Party shall have the right to use this data for any purpose whatsoever.

  
Director,  
Directorate of Energy,  
GoHP, Sector-6, Phase-III,  
New Shimla-171009

  
Satish Singh  
Secretary,  
BBMB




5. The First Party agrees to provide to the Second Party at its request, copies of all available documents, data, information, reports relating to the Project including copies of all investigations and studies carried out since the inception of the Project to enable them to use this information in the best interest of the implementation of the Project. The First Party further agrees to render all possible assistance to facilitate the Second Party in obtaining necessary statutory clearances from the concerned authorities.
6. The Second Party shall be free to dispose power from the Project, after allowing royalty in the shape of free power to the First Party in any manner they like in accordance with the provisions contained in the Electricity Act, 2003 and the rules and regulations made thereunder.
7. The Second Party shall carry out the requisite detailed investigations and identify the transmission system for evacuation of power from the Project in consultation with the First Party and State Transmission Utility (STU) keeping in view, the integrated system requirement.
8. The Second Party shall make arrangements for evacuation of power from the Project to the substation (designated as Interconnection Point) as per the provisions contained in the DPR agreed to by the relevant party undertaking the transmission beyond the interconnection point. Evacuation of power beyond the interconnection point shall be based on mutually agreed wheeling charges or determination by the competent regulatory body, as the case may be. However, in case BBMB erects its own transmission line, then BBMB will not have to pay any transmission charges or wheeling charges.
9. The validity of this Pre-Implementation Agreement shall be upto signing of Implementation Agreement. The Second Party shall sign Implementation Agreement with the First Party within the prescribed time period including any extension granted by the First Party. In the event, the Project is not found viable by the Second Party while preparing the DPR and the First Party is satisfied that the Second Party has sufficient ground to establish that the Project lacks techno-economic viability, the Second Party may be permitted to withdraw from the Project without any compensation or liability of First Party for the expenditure incurred by the Second Party in this period for any purpose related to the project.
10. The Second Party agrees to carry out the investigations of the Project keeping in view all stipulated quality control measures as well as safety standards as per prudent utility practices. The Second Party shall allow access to the authorized representative(s) of the First Party to all the locations of the Project to ensure compliance in this respect.
11. The Second Party shall contribute 1.5% of the cost of the project towards Pre-Commissioning Local Area Development Fund (LADF).
12. The Second Party shall provide royalty in the shape of free power from the Project to the First Party in lieu of surrender of potential site @ 12% of the Deliverable Energy of the Project for the entire agreement period starting from the date of synchronization of the first generating unit. The royalty in the shape of free power shall start accruing to the First Party from the synchronization of first generating unit.

  
Director,  
Directorate of Energy,  
GoHP, Sector-6, Phase-III,  
New Shimla-171009

  
Satish Singla  
सचिव, Secretary,  
भाजपा प्रदेश, BBMB




13. The Second Party shall contribute 1% additional Free Power for Local Area Development Fund (LADF) over and above the rates of royalty agreed to be paid to the State Government at the interconnection point of the power station with the State/ Central Transmission Utilities from Synchronization of first generation unit. The additional 1% Free Power from the project shall be provided by the Second Party and earmarked for Local Area Development Fund, aimed at providing a regular stream of revenue for income generation to Project affected families on the sustained and continued basis over the entire life of the project. This additional 1% Free Power, over and above the royalty component provided to the Government will be a pass through in tariff.
14. The project developer shall deposit an equivalent amount of 100 units of electricity to the eligible PAFs for 10 years from the date of COD of Unit(s) / Project, as per the applicable subsidized tariff determined by HPERC from time to time, with concerned LADCs and the balance amount equivalent to the quantum of subsidy with Directorate of Energy. This shall be done once in a year since the tariff is determined for a year by HPERC.
15. The Second Party shall provide 5% (7.19% of 69.6%) power to the First Party against its equity share in BBMB in addition to Free Power share of the state.
16. The First Party will invest in Baggi HEP (42 MW) as per its share of power in BBMB, i.e. 5.76% of the project cost. The Operation & Maintenance Charges as per its share of power shall also be paid by the First Party from time to time.
17. The Second Party shall provide employment to Himachalies in accordance with the provisions of Swarn Jayanti Energy Policy and the directions issued by the Department of Labour & Employment from time to time. The Second Party shall take the officers / officials of GoHP / HPSEB / State utility on deputation / absorption basis in proportion to the equity of the GoHP.
18. The Second Party shall reimburse to the HPSEBL/appropriate State Power Utility the amount, spent by the HPSEBL upto the date of signing of Implementation Agreement, on investigations and infrastructural works of the Project along with compound interest @ 10% per annum before the signing of Implementation Agreement. This shall form a part of the Project cost. The First Party shall intimate details of all such expenditure within twelve months of the date of signing of Pre-Implementation Agreement to the Second Party.
19. The Second Party shall bear the cost of improvement/widening of the existing roads required to be carried out for the construction of the Project.
20. The Second Party shall provide necessary arrangement/ mechanism in the civil structure including discharge measurement system for the release of laid down minimum flow immediately downstream of the diversion structure.
21. The Second Party shall follow the quality control and project safety norms specified by Central Electricity Authority/Central Water Commission or Directorate of Energy from time to time and allow access to conduct the inspection of the Project or supply such information in this regard as may be required by the Directorate of Energy, Govt. of HP, from time to time.

  
Director,  
Directorate of Energy,  
GoHP, Sector-6, Phase-III,  
New Shimla-171009

  
Satish Singla  
सचिव, Secretary,  
भा.प्र.ब.ब.ब. BBMB



22. The Second Party shall make suitable financial provisions for mitigation of adverse impacts as per the approved Environment Impact Assessment Plan and mitigation of degradation of environment due to disturbance of eco-system in watershed area, at the cost of the Project.
23. The Second Party shall have no claim on any Project upstream and downstream of the Project.
24. The First Party shall, as and when required, put in place a committee comprising of experts from Directorate of Energy for determining the impact, if any, on the existing project due to allotment of any upstream and/or down-stream project. In the event of a dispute, the decision of First Party in the matter shall be final and binding on all the parties.
25. The Second Party has an option to develop the Project either as run of the river (ROR) schemes or storage Project. However, in case of a storage Project, approval of the First Party shall ensure that such Project causes minimum submergence of habitations and agricultural holding of the people of the area.
26. The Second Party agrees to contract engineering services of a reputed design consultancy organization to oversee the Project planning, its layout design of various Project components and quality of construction to ensure safety of the Project components/ structures during execution and operation of the Project in such a way that there is no loss of human life, property of the people, energy generation etc.
27. The First Party agrees that till this Pre Implementation Agreement is in force, it shall not entertain any proposal in respect of the Project from any other party.
28. This Pre-Implementation Agreement is exclusive to the Parties hereto and neither of them shall assign its rights and benefits hereunder to third party except with mutual consent.
29. The Second Party shall abide by the provisions of the Swaran Jayanti Energy Policy of the First Party.
30. Each party hereto agrees that it shall not divulge any trade, commercial or technical secrets or confidential matter of one another to any third party, save for the purpose of implementing the understanding arrived at in this Pre-Implementation Agreement.
31. No party shall be considered to be in default under this Pre-Implementation Agreement for breach of any of the terms thereof due to the imposition of restrictions and onerous regulations by any Government or statutory authority or agency or other cause beyond its reasonable control.
32. Both the parties hereto shall do and execute all such acts, deeds, assurances and things, as may be necessary and proper for carrying out the terms of this Pre Implementation Agreement. The parties agree to negotiate and enter into such agreements as may be required to give effect to the understanding arrived at under this agreement.


  
Director,  
Directorate of Energy,  
GoHP, Sector-6, Phase-III,  
New Shimla-171009

  
Satish Singla  
Secretary,  
नगरपालिका, BBMB


33. The First Party shall transfer the land required for permanent structures and infrastructural works in respect of Baggi HEP (42 MW) on lease basis and the land rendered surplus after completion of project shall be transferred to GoHP as per the Land Acquisition Act. Also private land acquired by the Second Party, if rendered surplus after completion of project, the surplus land if so required by GoHP, the same can be taken over by the Government as per the Land Acquisition Act.
34. The Second Party shall prepare and implement Rehabilitation & Resettlement (R&R) Plan for the Project as per the GoHP guidelines and approval, which shall not be lesser beneficial to those provided under the provisions of Right to Fair Compensation and Transparency in Land Acquisition and Rehabilitation & Resettlement Act, 2013. In addition to R&R, the Company shall also run Community Development Schemes and Corporate Social Responsibility programs for the villages within/around the Project site, entwined to cater to local area development including capacity/skill development of affected population, as per the objectives and policies of the company which shall be other than the Local Area Development Fund contribution.
35. Any violations of the above mentioned issues may result into monetary penalty including cancellation of the Project.
36. Any difference and/or disputes arising at any time between the parties out of this PIA or interpretation thereof shall be endeavored to be resolved by the parties hereto by mutual negotiations, failing which the affected party may file a civil suit in the court of competent jurisdiction in Himachal Pradesh for redressal of its grievances.
37. The detailed terms and conditions of the Implementation Agreement (IA) shall be formulated with the mutual agreement of First Party and Second Party.

IN WITNESS WHEREOF the parties hereto have set their hands unto this on the day, month and year first above written in the presence of:

**For and on behalf of  
Government of Himachal Pradesh**


  
Director, Energy,  
Government of Himachal Pradesh,  
Shimla-171009.

**Witnessed by:**

1.   
CE (Energy)

2.   
Anshul Sharma  
SE, DOE


**For and on behalf of BBMB**

  
Secretary,  
Bhakra Beas Management Board,  
Sector 19-B, Madhya Marg  
Chandigarh- 160019.

**Witnessed by:**

1. 


2. 

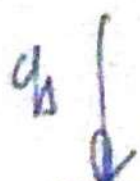
  
Sr. Executive Engineer,  
Sh. Executive Eng. Baggi Gate Divn.,  
Hydel Channel & Baggi Gate  
B.B.M.B. Sundernagar.




JOINT INSPECTION REPORT OF THE LAND PROPOSED TO BE DIVERTED FOR  
CONSTRUCTION OF 2 x 21 MW (42 MW) BAGGI HYDRO ELECTRIC POWER PROJECT

1. We the undersigned have jointly carried out the inspection of forest land on 20/09/21 required to be diverted for the construction of **Hydro Electric Power Project Baggi (2X21 MW)** under Forest Division Suket (HP). The location for the purpose falls under the purview of 1980 and in the possession of forest department, Government of Himachal Pradesh.
2. The proposed Project involved **0.8700 He.ct.** Forest land bearing Khasra No. 501/1 under Muhal Khiuri Dom/285. The legal status of forest land involved is **Charagah Villa Darkhtan**. The user agency i.e. BBMB has assessed the requirement of forest land to the extent of **0.8700 Hect.**
3. The joint team has also examined two other alternative for the construction of **Hydro Electric Power Project Baggi (2X21 MW)** with a view to explore minimum use of forest land for non forestry purpose and has found that the location of Surge Shaft is already fixed and portion of Surge Shaft of height has already been constructed during Nineteen Seventies and now this has to be further extended upto 49.79 m height. Therefore location of this component neither can be altered and nor can be changed. Therefore there is no alternate alignment is feasible and the said Project from above mentioned Muhal is unavoidable. The details of forest land to be diverted in favour of BBMB have been mentioned in the check list No. 7. On the basis of said inspection, it is certified that the proposed forest land having legal status of **Charagah villa Darkhtan** to be diverted is not affected by any burial ground on public place, water body like spring etc.

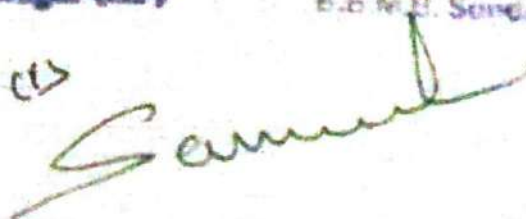
  
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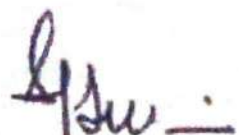


सहायक  
वन (विद्युत वनवीक)  
जिला मन्त्री (विद्युत)

  
Divisional Forest Officer  
Suket Forest Division  
Sunder Nagar (HP)

CS



  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sonebarnagar



**Proposal Title: Construction of Hydro Electric Power Project Baggi (2x21 MW)**

**Purpose Wise and Component wise breakup of proposed area**

Sn.	Land Khasra No./Muhul	Type of Land (Forest/Non-Forest)	Area of Land required (Hectare)	Project Component falling under Land Khasra	Ownership Of Land	Remarks
1.	501/1 /285 Khuiiri Daum	Forest land	0.87 Hect.	Surge Shaft and its Catcher Chamber	H.P Forest Deptt.	Alignment of Surge Shaft fixed as the portion of Surge Shaft was already constructed during Nineteen Seventies on this land
2.	467/ 285 Khuiiri Daum	Non Forest Land	1.17 Hect.	Protection works and working space for Catcher Chamber of Surge shaft	Pvt. Land	Protection works and working space area required for Catcher Chamber of Surge shaft falls on this Khasra land for which 0.17 Hect. Pvt. Land will be acquired
3.	472/285 Khuiiri Daum	Non forest Land	0.27 Hect	Project Road & Main Pandoh Baggi Tunnel	BBMB	Already under BBMB Possession
4.	473/285 Khuiiri Daum	Non Forest land	1.81 Hect.	Existing Baggi Control Works and Part of proposed Power house	BBMB	Already under BBMB possession
5.	474/285 Khuiiri Daum	Non Forest Land	1.01 Hect	Tail Race Channel and Power House of Baggi HEP	BBMB	Already under BBMB possession
6.	292/282 Khuiiri Awwal	Non Forest Land	12.09 Hect.	Switchyard of Baggi HEP	BBMB	Already under BBMB possession
7.	240/285 Khuiiri Dom	Non Forest Land	2.15 Hect.	Dumping Site For Baggi HEP	BBMB	Already under BBMB possession

Er. S.P Sharma

**Sr. Executive Engineer,**

**Hydro Electric Division Baggi Gate Divn.,**

**B.B.M.B. Sundernagar.**

17/12/22



एस.सी.ए रसीद संख्या: 2280100221163124

**नकल शिल्पक :** 2

**सेवा शुल्क : 20**

मोहाल : खियरी टोम

**साल : 2018-2019**

**रकबा ईकार्ड: दीघा-बिस्वा-बि**

कुल शब्द : 22

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22

22

*S.P.A.*  
Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn.,  
G.B.M.B., Sundernagar.

पृष्ठ संख्या: 1

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# राजस्व विभाग, हिमाचल प्रदेश - नकल जमाबंदी

एस.सी.ए रसीद संख्या: 2280100521183252

नाम : aa

पिता/पति : aa

नकल शुल्क : 2

सेवा शुल्क : 30

कुल शुल्क : 32

जिला : मर्वा  
तहसील : बल्स  
कानूनगोबत : बल्स  
पटवार वृत्त : राजगढ़  
रजबस्ता नं. : 285

मोहल : खिचरी दोन

साल : 2018-2019

रकबा ईकाई: बीघा-हिस्सा-बि

क्र.सं.	खेती नं.	नाम मालिक व एक्वाल	नाम काश्तकार व एक्वाल	नाम चार व दीगर वसायत आबापाशी	नम्बर खसरा झाल	रकबा हर खेत व मिजान खाला मय किस्म अरावी मीट्रीक ईकाइयां में	हिस्सा या पैमाना इकीयत व तरीका बाड	कैफियत
1	2	3	4	5	6	7	8	9
124	214	कैदीर लाल A/C बाल	कन्दा रस्य		240	26-10-07 शे.मु.नगर	कन्दा व एक्वाल बागड़ खेत नं. (1)	
124	205	किल्लत खंड			312/1	00-01-04 शे.मु.नगर		
					322	03-14-17 शे.मु.नगर		
					324	05-15-01 शे.मु.नगर		
					344	01-03-13 शे.मु.नगर		
					346	00-03-15 शे.मु.नगर		
					363	00-13-04 शे.मु.नगर		
					392	01-10-08 शे.मु.नगर		
					400	00-07-04 शे.मु.नगर		
					406	00-14-19 शे.मु.नगर		
					407	00-00-04 शे.मु.नगर		
					453	01-03-18 शे.मु.नगर		

1/2  
शे.मु.नगर  
Sunder Nagar  
Distt. - Mandi  
Mob. No. - 94182-40180  
2022

निकलट : हिमाचल प्रदेश - हिमाला

दिनांक: 07-Oct-2022

पृष्ठ संख्या: 1

Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn.  
G.B.M.B. Sundernagar.



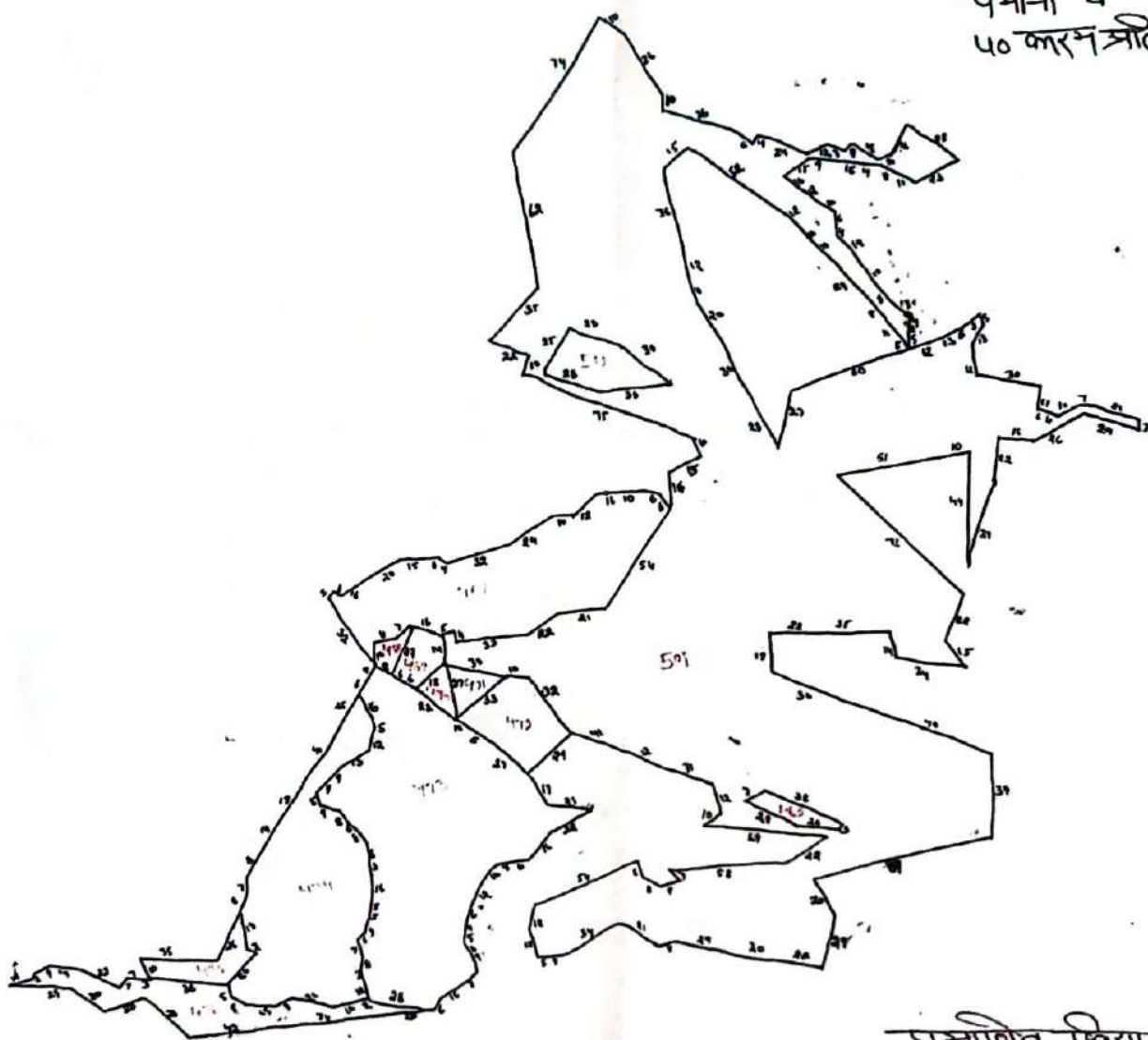




नजल उम्मा राणा लड्डा भू मन्त्रीकरण महाल खियुरी योम | 285  
 तहसील सयर जिला मन्वी (हिमाचल)

उत्तर  
 +

पैमाना व हिसाब  
 40 फारम प्रति इंच



प्रमाणित किया जाता है कि  
 नजल उम्मा उसल के  
 सीधे व सुस्त है नजल उम्मा  
 मुताबिक आधिकारिक उपमण्डल  
 पिछाड़ी (नग) बरह के तैयार किया  
 गया है उगारत वसुल अधि

2  
 नजल उम्मा राणा लड्डा  
 सयर जिला मन्वी  
 तहसील सयर जिला मन्वी

Sr. Executive Engineer  
 Hydrel Channel & Baggi Gate Divn.,  
 B.B.M.B. Sundernagar.



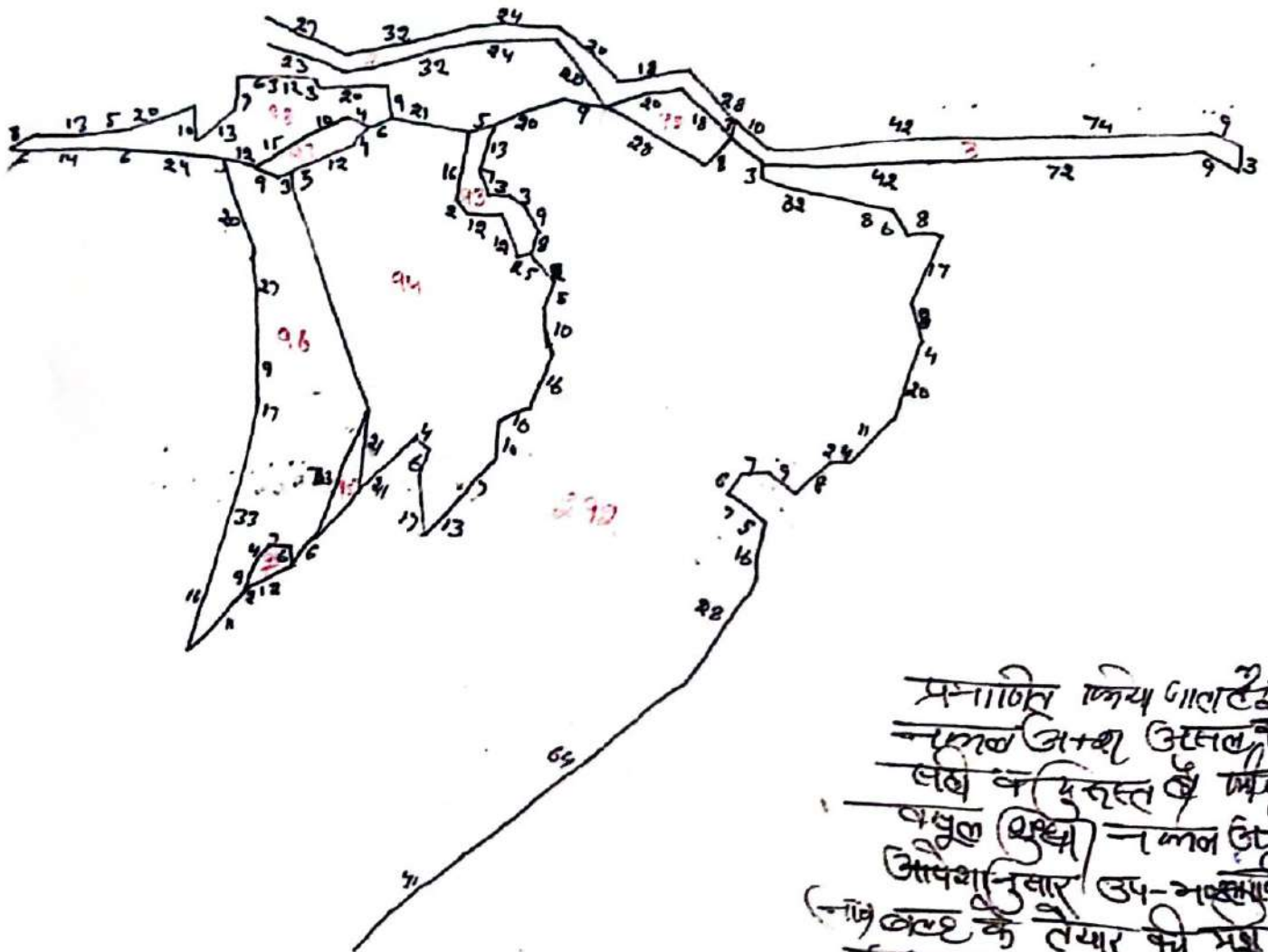
नक्शा अन्व शहर लक्ष्य भू-संज्ञाकरण नक्शा रिपरीटिंग/

२४२ तहसील सयर जिला मंडी (हि.प्र.)

300

+

पैमाना व विस्तार  
40 फीट प्रति इंच



प्रमाणित किया जाता है कि  
नक्शा अन्व असाधारण  
लंबे व दूरिस्त है कि  
वर्षा (वृष्टि) नक्शा अन्व  
आपसानुसार उप-मन्त्रालय  
निर्माण के तैयार की प्रश  
उत्तर मन्त्रालय


Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.

मन्त्रालय/विभाग/उप-विभाग  
वर्षा (वृष्टि)  
निर्माण के तैयार की प्रश

**LIST OF PROPOSAL/APPROVED/EXISTINGPROPOSED IN BEAS RIVER BASIN AREA**

Sr. No.	Project Name	Capacity in MW	District	River/Basin	Executing Agency	Status
1	Uhl-II ( Bassi )	66	Mandi	Beas	Himachal Pradesh State Electricity Board Limited ( HPSEBL)	Commissioned
2	Malana - I	86	Kullu	Beas	Malana Power Company Limited	Commissioned
3	Sainj	100	Kullu	Beas	Himachal Pradesh Power Corporation Limited (HPPCL)	Commissioned
4	Malana-II	100	Kullu	Beas	Everest Power private Limited	Commissioned
5	Uhl-I (Shanan)	110	Mandi	Beas	Punjab State Power Corporation Limited (PSPCL)	Commissioned
6	Larji	126	Mandi	Beas	Himachal Pradesh State Electricity Board Limited ( HPSEBL)	Commissioned
7	Allain Duhangan	192	Kullu	Beas	AD Hydro Power Corporation Limited	Commissioned
8	Pong Dam	396	Kangra	Beas	Bhakra Beas Manangement Board (BBMB)	Commissioned
9	Parbati-III	520	Kullu	Beas	National Hydro Power Corporation Limited ( NHPCL)	Commissioned
10	Beas Satluj Link	990	Mandi	Beas	Bhakra Beas Manangement Board (BBMB)	Commissioned
11	Uhl-III	100	Mandi	Beas	Himachal Pradesh State Electricity Board Limited ( HPSEBL)	Under Construction
12	Parbati-II	800	Kullu	Beas	National Hydro Power Corporation Limited ( NHPCL)	Under Construction
13	Raison	18	Kullu	Beas	Himachal Pradesh State Electricity Board Limited ( HPSEBL)	At under Clearances & Investigation
14	Dhulasidh	66	Hamipur	Beas	Satluj Jal Vidyut Nigam Limited ( SJVN)	At under Clearances & Investigation
15	Triven mahadev	78	kangra	Beas	Himachal Pradesh Power Corporation Limited ( HPPCL)	At under Clearances & Investigation
16	Thana plaun	191	Mandi	Beas	Himachal Pradesh Power Corporation Limited (HPPCL)	At under Clearances & Investigation
17	Nakthan	460	Kullu	Beas	Himachal Pradesh Power Corporation Limited (HPPCL)	At under Clearances & Investigation
18	Baggi	42	Mandi	Beas	Bhakra Beas Manangement Board (BBMB)	At under Clearances & Investigation
	<b>Total</b>	<b>4441</b>				
In addition there is about 800 MW of below 5 MW HEPs						

Total Capacity of in terms of hydro=electricity generation potential of the river = **5241 MW**

  
**Sr. Executive Engineer,**  
**Hydel Channel & Baggi Gate Divn.**  
**B.B.M.B. Sundernagar.**



## Proposal Title : C/o Hydro Power Project Baggi ( 2 x 21 MW)

### Muck Management Plan :

Baggi HEP will be an extension of already constructed BSL project constructed during 1970s. It has been proposed to utilise the head available at tail of Pandoh Baggi Tunnel to generate 42 MW hydroelectricity. Some components of Baggi HEP had already been constructed such as by pass tunnel and part of surge shaft up to EL 859.0 m. Most of the excavation work i.e of Surge shaft upto EL 859.0 m, Penstocks tunnel, tailrace channel and Power house area up to EL 836.0 m was already done during the construction phase of BSL project.

Total quantity for excavation work (to be executed during construction of Baggi Power project) including soil and rock will be approx. **1,00,500 cubic meters** as detailed below in the Table and quantity of muck with swell factor will be approx. **1,57,375 cubic meters**


BBMB has its own existing muck disposal site in Khasra No. 240/Khuiri Daum Mohal having total area 21500 Sqm and capacity **2.0 Lakh Cum** (layout plan and KML file uploaded on PARIVESH portal)) and the same will be used for muck disposal of Baggi HEP. This muck disposal site was also used during construction of BSL project in 1970s. Existing muck disposal site have an average depression of 4.0 m below surrounding area. Excavated muck from construction of Baggi HEP will be deposited in this disposal site and the same will be levelled properly.


Sr. No.	Location	Quantity of Soil Muck		Quantity of Rock Muck		Remarks
		Excavation (m <sup>3</sup> )	With 1.25 swell factor (m <sup>3</sup> )	Excavation (m <sup>3</sup> )	With 1.75 Swell factor (m <sup>3</sup> )	
1.	Surge Shaft Area	11000	13750	25000	43750	Surge Shaft up to 859m already constructed
2.	Penstocks Area	1000	1250	2500	4375	Penstocks tunnel already excavated during construction of BSL project 1970s
3.	Power House Area	15000	18750	30000	52500	Most of the Power house area already excavated up to level 836m
4.	Tail race Area	10000	12500	6000	10500	Tail race area already excavated during construction of BSL Project only final excavation line required to maintained
	Sub Total	37000	46250	63500	111125	

Total Quantity of Muck Excavated = 100500 m<sup>3</sup>

Total approx. quantity of Muck with Swell Factor = 1,60,000 m<sup>3</sup>

Area of already identified muck disposal site = 21500 m<sup>2</sup>

  
4 Divisional Forest Officer,  
Buket Forest Division,  
Sunder Nagar (HP)

  
15/11/2022  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.

Topographic map showing land boundary and contour lines. The map includes a grid with coordinates (N 9740 to N 10200 and E 7900 to E 8080). A north arrow is present in the top right corner. A scale bar is located in the bottom left corner. The map is titled "Total land boundary Area=21500 sqm".

**LEGEND**

Symbol	Description
—	Contour Line
—	Water Course
—	Boundary Line
—	Settlement
—	Other

**Scale**

Scale	Description
1:1000	Scale
1:2000	Scale
1:5000	Scale
1:10000	Scale

**Notes**

- 1. The map is based on the latest aerial photograph.
- 2. The map is based on the latest topographic survey.
- 3. The map is based on the latest cadastral survey.

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1.3	1.3	1.3	1.3
1.4	1.4	1.4	1.4
1.5	1.5	1.5	1.5
1.6	1.6	1.6	1.6
1.7	1.7	1.7	1.7
1.8	1.8	1.8	1.8
1.9	1.9	1.9	1.9
1.10	1.10	1.10	1.10
1.11	1.11	1.11	1.11
1.12	1.12	1.12	1.12
1.13	1.13	1.13	1.13
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1.40	1.40	1.40	1.40
1.41	1.41	1.41	1.41
1.42	1.42	1.42	1.42
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1.82	1.82	1.82	1.82
1.83	1.83	1.83	1.83
1.84	1.84	1.84	1.84
1.85	1.85	1.85	1.85
1.86	1.86	1.86	1.86
1.87	1.87	1.87	1.87

U/S Divisional Forest Officer  
Suket Forest Division.  
Sunder Nagar (HP)

Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Div  
B.B.M.B. Sundernagar.





**H.P. POWER TRANSMISSION CORPORATION LIMITED**

(A State Government Undertaking)

**HIMFED Bhawan, Panjari, New ISBT Road**

**SHIMLA - 171005**

**CIN: U40101HP2008SGC030950**

**ANNEXURE-V**

No. HPPTCL/Plg/TEC/Vol-IX/2021-7382-83 Dated: - 23/08/21

To

✓ **Chief Engineer (Energy),  
Directorate of Energy, GoHP,  
New Shimla, 171009.**



**Sub: - Regarding Power Evacuation of (2 x 21 MW) Baggi HEP**

Sir,

This is with reference to Transmission Part of DPR (Detailed Project Report) of Baggi HEP (2 X 21 MW) (Copy Enclosed) in receipt of HPPTCL for grant of TEC. BBMB vide their letter No.3995-97/CS/C-134/Vol-VI, dated-11.08.2021, (Copy Enclosed) have further clarified that the generation of the project is during lean period from 1<sup>st</sup> October to 20<sup>th</sup> April.

In this regard it is intimated that the Baggi HEP (2 x 41 MW) shall be evacuated by S/C LILO of Kangoo - Bajaura line subject to shifting of Malana-I HEP to 220/132 kV Charor Substation of HPPTCL.

It is further added that in case of any delay in shifting of Malana- I HEP to 220/132 kV Charor substation of HPPTCL, the power of the Baggi HEP shall be evacuated through the above arrangement with provision of SPS if required, as corridors for evacuation are expected to be relieved during the projected period of generation of Baggi HEP.

Yours faithfully,

*[Signature]*  
**GM (C&D)  
HPPTCL, Shimla-05**

**Copy to-**

1. Chief Engineer (System Planning) HPSEBL, Dogra Lodge, Shimla 171004.

*[Signature]*  
**GM (C&D)  
HPPTCL, Shimla-05**

**Director (Energy)  
C.E. (Energy) [Signature]  
S.E. 1 (Dm, Env. LT Wb, SDA, Safety)  
S.E. 2 (TEC)  
S.E. 3 (Power Sale, SDA, Commercial Billing)  
S.E. 4 (Abit, Policy, LAD, Legal, V.S., Monitoring)  
Admin., Accounts & Finance)**

*[Signature]*  
**Sr. E.C. (TEC)**

*[Signature]*  
**25/08/2021**

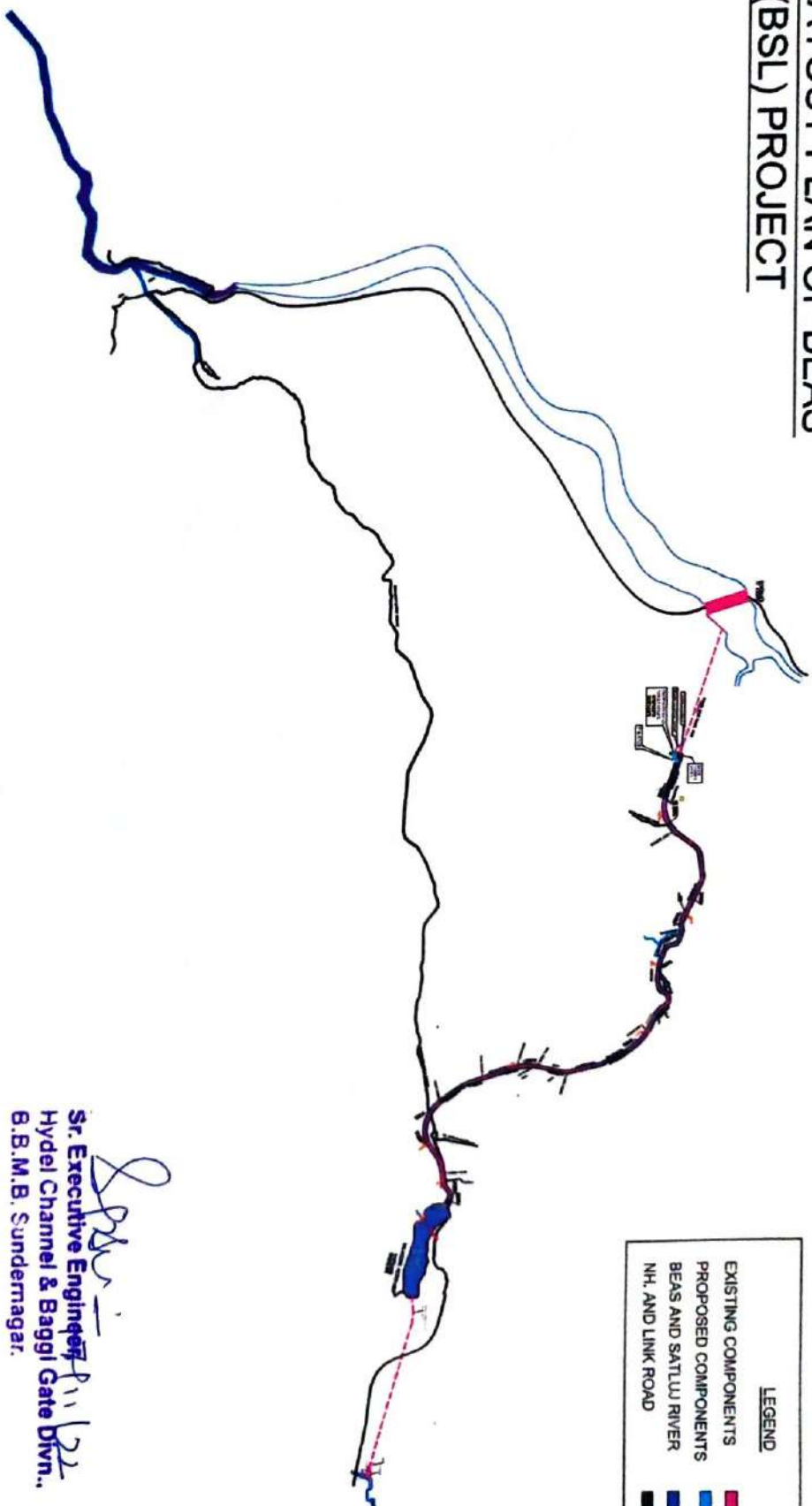
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**Pl. file.**

*[Signature]*  
**30/08/21**

*[Signature]*

*[Signature]*  
**Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn.,  
C.B.M.B. Sundernagar.**

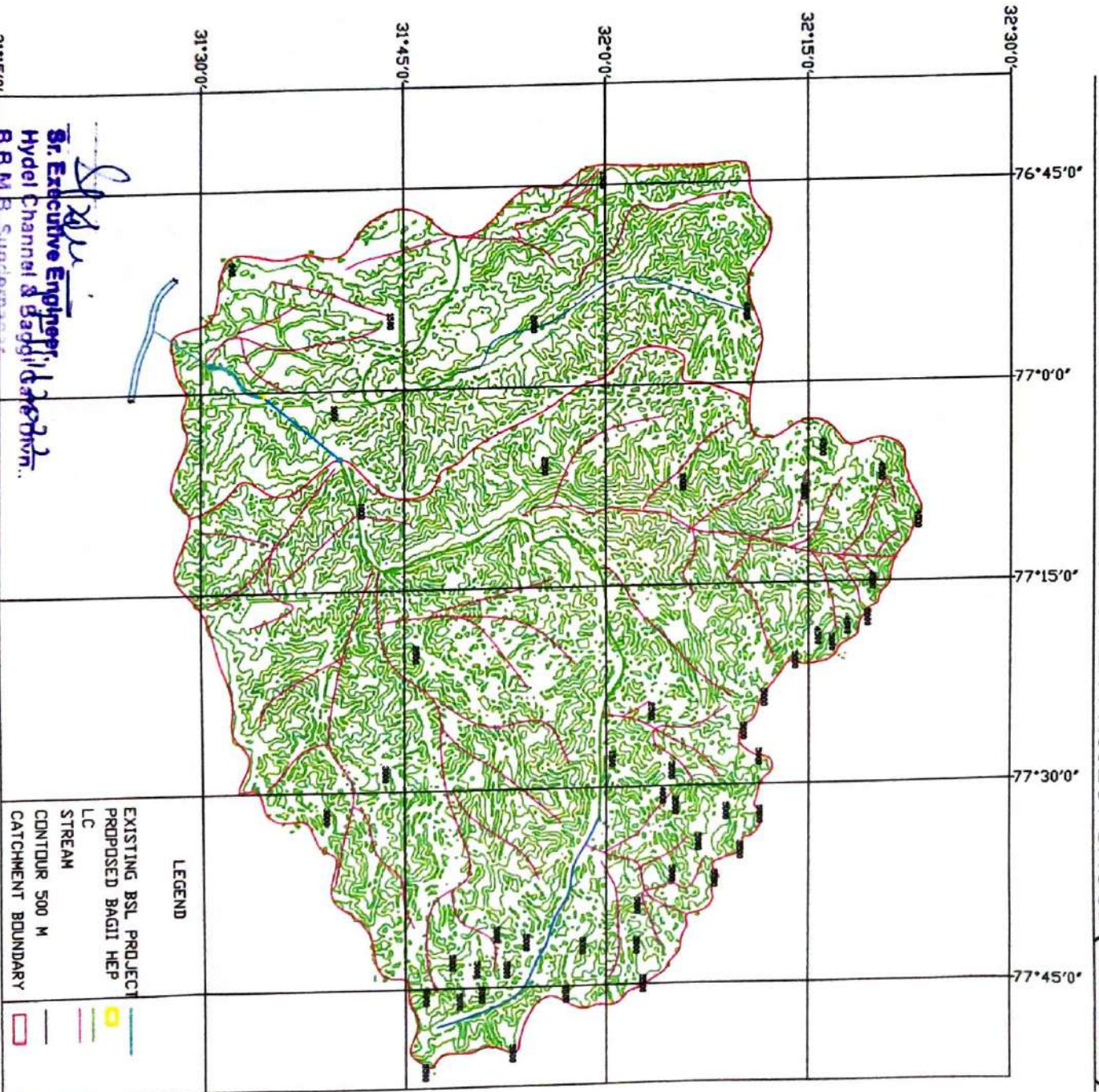
# SCHEMATIC LAYOUT PLAN OF BEAS SATLUJ LINK (BSL) PROJECT



*S.B.M.*  
Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.



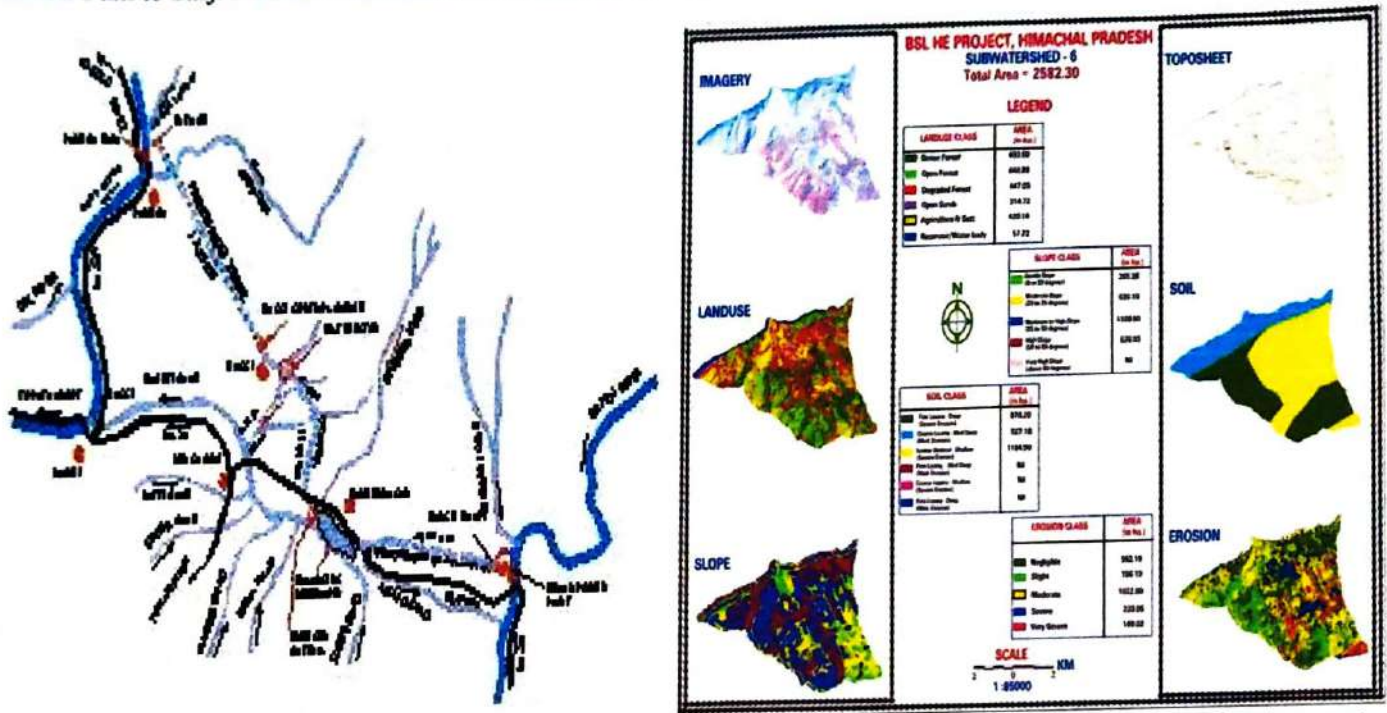
# CATCHMENT AREA PLAN OF HYDRO POWER PROJECT BAGGI (2X21 MW)





## Catchment Area Treatment (CAT) Plan for BSL Project from Pandoh Dam to Larji Dam, Sunder Nagar, District Mandi (H.P.):

In view of concerns expressed by the local people, Hon'ble High Court of Himachal Pradesh, in the matter of BBMB Versus State of Himachal Pradesh Environment Protection and Pollution Control Board (HPEP and PCB), directed the Central Pollution Control Board (Ministry of Environment & Forests, Government of India) to develop a proper CAT Plan. In compliance to the directions of Hon'ble High Court, the Central Pollution Control Board, constituted an Expert Committee for preparing the Action Plan for management of silt and advise on other relevant issues with respect to Beas Sutlej Link (BSL) Project pertaining to Bhakra-Beas Management Board (BBMB) during 2004. The BBMB authorities interacted with the Indian Council of Forestry Research & Education (ICFRE) for the development of CAT Plan. Himalayan Forest Research Institute (HFRI), Shimla, which is one of the regional Research Institute of ICFRE, made a presentation before the Expert Committee on 19-02-2008 at Sundernagar, which resulted in developing of Terms of Reference (ToR) for this task and a Memorandum of Understanding (MoU) was signed between HFRI and BBMB authorities on 03.06.2008 for "Preparation of Catchment Area Treatment (CAT) Plan of BSL Project from Upstream of Pandoh Dam to Larji Dam for River Beas and its Tributaries". The total cost of the consultancy was Rs. 17.02 lacs.



Detailed field work was carried out by HFRI and its associates by using available scientific methodologies for development of CAT Plan. A draft Plan was discussed in detail with BBMB authorities including the Chief Engineer, other senior functionaries of BBMB, Forest Officers of Himachal Pradesh Forest Department and the experts from HFRI, Shimla on 09-08-2008. After this presentation and incorporation of the views of the authorities of BBMB, a final presentation was made before the Expert Committee of Central Pollution Control Board on 10-06-2009 at New Delhi. The Committee appreciated the CAT Plan and approved it with minor suggestions, which were incorporated in this final CAT Plan.

### Summary of the CAT Plan:

The Beas originates from Beas Kund at an El 4085 m above msl near the Rohtang pass, at El 4062m above msl, on the southern end of Pir Panjal range, close to the source of the Ravi. After traversing 460 Km it confluences with the Satluj river at Harike. The river is comparatively a short river when compared to other major river of Indus basin, but entirely lies in the Indian territory and has a total catchment of 20,303 sq Km and carries annual flow of 15,800 MCM at Mandi. The total catchment of the Beas at Pandoh Dam and Larji Dam has been assessed as 5278 sq km and 4921 sq km respectively. Out of total 5278 sq km catchment area at Pandoh the total snow-bound catchment is 780 sq km.

The CAT Plan has been formulated with the main object of the soil and water conservation measures, in the free draining catchments are of Pandoh Dam to contain the precious soil being washed away particularly in the crucial area, where the foci of erosion is located. The area where the various soil conservation measures have been proposed, were prioritized on the basis of SYI methodology as well as ground truth reality. The effectiveness of the conservation measures can be fathomed by way of reduction in sediment load of the streams draining through the sub-watershed and increase in the output from the land, provided. The treated sub-watershed is not made to produce more sediment load than before by taking up the works due to various anthropogenic reasons like, excavation of roads, setting fires in jungle, overgrazing and burning of grasslands.

The rate of sediment flow in the stream viz. Chuli Nal, Gurshan gad and Bakhli Khad, in whose sub-watershed the soil and water conservation works have been proposed under the CAT plan, is bound to decrease with the implementation of

*[Signature]*  
Sr. Executive Engineer,  
Hydel Channel & Bagli Gate Divn.,  
B.B.M.B. Sundernagar



integrated soil conservation measures. This flows from the corollary of the projects mentioned ibid. The success of the work per se is dependent upon host of factors, which are elucidated in the following sub paragraphs.

### **Improved Agronomic Practices:**

Faulty agronomic practices lead to erosion of fertile agriculture land. The improved agronomic practices include such measures as containing farming crop rotation, strip cropping, cover crops and mulching usually carried out as a part of farm operation to protect the soil against wind and water erosion. Through public awareness program, the local farmers should be explained to adopt such practices for their benefits.

### **Development Work:**

The infrastructure development works like construction of roads, construction of buildings etc., which involve direct intervention of the land environment, must be carried out in a scientific manner and the asset should be created in a sustainable eco-friendly manner. The excavated material should be used to optimum wherever possible and the surplus excavated material should be stacked in properly managed dumpsites. The unstable excavated slopes should be properly retained and the ground surface should be stabilized by growing vegetation. It has been observed that the muck from the road excavation is being disposed as rolling material, which is creating gully formation/erosion. All the good work done by implementing the CAT plan shall be meaningless if more sources of sediment production are created in the name of development. The success of the CAT plan implementation is mostly dependent upon eco- friendly activities in the area.

### **Mining:**

The mining wastes are generally left in a position favorable to erosion. Therefore, while leasing out any new mine in the catchment area, the lessee should be bound to stack the mine - waste/spoils in the form of stable dumps and develop vegetation on the tip of the spoils by applying bio-technical methods. The used up mines in the forest land must be reclaimed and rehabilitated to check the erosion. The lease for the operation of the new mines in the catchment area should be given after recommendation of the proposed Monitoring Committee of Pandoh dam catchment.

### **Upper Development of Bakhli Khad:**

The sub-watershed IBIC6 (4) through which Bakhli khad drains has an area of 62.8 sq. km out of 212.89 sq.km free draining catchment area of Pandoh dam. Bakhli khad originates from Shikari Devi and has many tributaries in the upper catchment. Patikari Hydroelectric project (15 MW) is an upper development of Bakhli khad and therefore its catchment has not been included in the free draining catchment of Pandoh dam. A separate CAT plan has been formulated by the project proponent viz. Patikari Power Private Limited.

The observations of sediment inflows are being done in Bakhli khad at a site, which is about 2.5 km from its confluence with Beas. Therefore, the average annual sediment rate also includes the sediment generated in the catchment of Patikari Power Project. The effectiveness of the soil and water conservation measures being implemented under Patikari project shall certainly have a bearing upon the overall sediment flow in Bakhli khad for whose lower catchment (62.8 sq.km), CAT plan entails treatment of 500 ha area under very severe erosion intensity class. It is also worthwhile here to note that under the CAT plan of Patikari Power Project afforestation and silvi-pastoral development have been proposed only in 60 ha and 30 ha area respectively although its catchment is 217 sq. km

### **Upper Development of Pandoh Dam:**

Many hydroelectric projects have either been constructed or are under construction or proposed in the Basin of Beas River upstream of Pandoh Dam. All such upper development works of the Beas and its tributaries shall have separate CAT Plans for their free draining catchment. Though the schemes are generally R-O-R schemes, which have insignificant, trapping efficiency, the sediment production rate of these streams in particular and the Beas in general shall reduce after the implementation of proposed schemes. Thus the silt inflow into Pandoh Dam reservoir is likely to reduce with the cascading development of power in the basin. Therefore, overall sediment inflow in the reservoir of Pandoh Dam shall undoubtedly reduce with the implementation of the CAT Plan for the designated area, which drains directly into the reservoir.

  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
D.E.M.B. Sundernagar.



**DIRECTORATE OF ENERGY**  
**GOVERNMENT OF HIMACHAL PRADESH**  
**SHANTI BHAWAN, PHASE-III, SECTOR-VI, NEW SHIMLA-171009(HP)**

**OFFICE ORDER**

Directorate of Energy is pleased to accord Technical Concurrence (TC) to Baggi HEP (2 x 21 MW) utilizing available head between Pandoh Reservoir Level (PRL) and Full Supply Level (FSL) of Sundernagar Hydel Channel at Baggi, diverted from Beas River at Pandoh Dam in Beas Basin, Distt. Mandi, Himachal Pradesh, allotted to "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019" by Department of MPP & Power, Government of Himachal Pradesh vide letter No. MPP-F(2)-1/2019 dated 16.07.2019, at an estimated cost of Rs. 284.87 crore (Rupees Two Hundred Eighty Four Crore and Eight Seven Lakh only) including Interest During Construction (IDC), Escalation, Financial Charges(FC) and LADF @ 1.50 % of total project cost with the following stipulations:

1.
  - i) The abstract of the Estimated Cost approved by DoE, GoHP is enclosed at **Annex-I**, summary of financial package as considered by DoE, GoHP is enclosed at **Annex-II** and the Salient Features of the scheme are enclosed at **Annex-III**.
  - ii) The completion cost shall not exceed the above cost except on account of the following:-
    - a) Interest During Construction (IDC) and Financial Charges (FC) shall be as per actuals but not exceeding the amount as indicated at **Annex-I**, unless revised by DoE, GoHP while according concurrence under Section-8 of Indian Electricity Act 2003 after review of the financial package.
    - b) Change in rates of Indian taxes and duties such as Goods and Service Tax (GST), Custom Duty and levy of any other taxes/duties subsequent to issue of Technical Concurrence (TC)
    - c) Change in Indian law resulting in change in the cost.
2. The Technical Concurrence (TC) is subject to the fulfillment of the following conditions:
  - i) Completed cost/ Technical Concurrence (TC) shall not be re-opened due to the following:
    - a) Non acquisition of land.
    - b) Non- finalization of Power Purchase Agreement (PPA)
    - c) Delay in financial closure.
  - ii) The final financial arrangement shall not be inferior to the financing arrangement projected in the Detailed Project Report (DPR) for TC.
  - iii) The cost of the project cleared by the DoE, GoHP is indicative and shall have no binding on the regulator while fixing the tariff. The tariff of the project shall be regulated by the appropriate Electricity Regulatory Commission.
  - iv) The public issue expenses, if any, shall be reconsidered at the time of approval of completion cost based on documentary proof and in accordance with Security Exchange Board of India (SEBI) guidelines regarding regulation of public issue expenses.
  - v) Fulfillment of conditions stipulated in Central Electricity Authority (CEA)/Central Water Commission (CWC) guidelines in respect of civil works at the stage of detailed designs/execution.
  - vi) In case, changes are made in design parameters during construction due to site conditions or otherwise, the same shall be intimated and got Concurred from DoE, GoHP before implementation of such changes.

*[Signature]*

*[Signature]*  
AEE(TC)

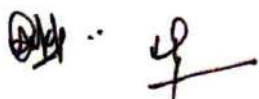


- vii) Any increase in the cost estimate due to design modifications and geological surprises would be absorbed by "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019".
- viii) No additional cost shall be allowed due to Resettlement & Rehabilitation (R&R) Plan.
- ix) Normal operation life of the hydro power plant shall be as per provisions of latest CWC/CEA guidelines or Central Electricity Regulatory Commission (CERC)/Himachal Pradesh Electricity Regulatory Commission (HPERC) regulations.
- x) The Concurrence is subject to clearance of the project and Transmission Line by MoE&F from environmental and forests angle. The statutory and administrative clearances as per **Annex-IV** shall be obtained before execution/ implementation of the project, if applicable.
- xi) For evacuation of power, the interconnection point with the State grid and interconnection facilities at the interconnection point shall be provided, operated and maintained at the cost of the Developer.
- xii) The cost of providing and/or strengthening/additions etc. of the system at and beyond the Interconnecting Sub-station, which may also include the cost of replacement of switchgear/ protection and provision of shunt capacitors, strengthening of bus bars, apart from other works required at injection voltage level and other one or more successively higher voltages, civil works relocation of existing bays etc. shall be recovered by HPSEBL/HPPTCL, as per the regulations of HPERC read with the clarifications/decisions by HPERC and/or any other competent authority as may be finally applicable. The share of Developer on this account shall be paid by the Developer to Himachal Pradesh State Electricity Board Limited (HPSEBL)/ Himachal Pradesh Power Transmission Corporation Limited (HPPTCL) as per the final decision of the competent authority.
- xiii) Whereas the HPSEBL/HPPTCL shall endeavor to provide the power evacuation system at the earliest, the scheduled date for providing evacuation arrangements shall be spelt out in the PPAs on case to case basis inter-alia, keeping in view the time lines indicated in the relevant plan and approved by HPERC.
- xiv) The powerhouse generating equipments as well as other electrical equipments to be provided by the Developer shall be compatible for parallel operation with the State grid after interfacing. The Developer shall be responsible for any loss of generation on this account.
- xv) O&M charges for maintenance of inter connection facilities at the interconnection sub-station shall be paid by the Developer to HPSEBL/HPPTCL throughout the period, the Developer runs the project and the same shall be reviewed at the beginning of every financial year.
- xvi) For evacuation of power the IPP shall interface this project as per HPPTCL letter No. HPPTCL/Plg /TEC/Vol-IX/2021-7282-83 dated 23.08.2021 at **Annex-V**.
- xvii) The project line shall be provided, operated and maintained by the Developer at his cost as per normal conditions after obtaining approval of HP Govt. under Section 68(1) of Electricity Act, 2003.
- xviii) The above mentioned evacuation arrangements shall be subject to the HPERC/CERC approval of "Comprehensive area wise plan for augmenting and establishing of transmission/sub-transmission system for evacuation of power from HEPs" which has already been submitted to HPERC. The Transmission/Distribution Licensee may however evolve alternate system(s) depending on the site conditions and subsequent developments with the approval of HPERC.
- xix) The Developer shall develop operate and maintain the Project including the dedicated transmission system subject to compliance with the following:
  - a) Grid code and standards of grid connectivity.
  - b) Technical as well as Mechanical standards for construction of Electrical lines.
  - c) Norms of System Operation of the concerned State Load Dispatch Center



(SLDC) or Regional Load Dispatch Center (RLDC).


- d) Directions of the concerned SLDC or RLDC regarding operation of dedicated transmission line.
  - e) The Developer will only be allowed to inject power in HP system with the undertaking that necessary action to provide tele-metering to SLDC shall be provided by them and specifications required to be got approved from the office of SLDC, HP Load Dispatch Society, Shimla from compatibility point of view with existing Supervisory Control and Data Acquisition (SCADA) system.
- 
- xx) The Hydro generating units shall be capable of generating up to 110% of rated capacity (Subject to rated head being available) on continuous basis as per Sr. No 7 ( Part-II) of Ministry of Power (Central Electricity Authority) notification No 12/X/STD (CONN) GM / CEA dated 15/10/2013 and HP Govt. Swaran Jayanti Energy Policy, 2021.
  - xxi) The conditions on these lines shall have to be suitably included by the Developer in the PPA etc. apart from other standard conditions.
  - xxii) The observations of DoE, GoHP on the DPR and replies thereof shall form an integral part of the DPR.
  - xxiii) The proposed arrangement of laying penstock header & penstock with length 160.60 m & 45.12 m respectively should be designed w.r.t. all necessary parameters of earth pressure/water pressure in empty/full condition, earthquake condition and with regard to all safety standards norms.
  - xxiv) LADC/LADF amount and activities shall be implemented as per HP Govt. Swaran Jayanti Energy Policy, 2021 at chapter-V.
  - xxv) The additional 1% (one percent) free power from the project shall be provided and earmarked for a Local Area Development Fund (LADF) as per the provision stipulated in the HP Govt. Swaran Jayanti Energy Policy, 2021 at chapter-V.
  - xxvi) The Geological explorations as per CWC guidelines should be carried out before taking up project construction and submit the report to the DoE, GoHP.
  - xxvii) The Concurrence is based on the reports and data furnished by the Developer in the DPR and the relevant information provided therein. It is presumed that information furnished is correct and has been collected reliably after carrying out detailed field investigations and surveys under the supervision of competent personnel. The scrutiny of DPR does not cover the examination of the detailed designs & working drawings of project components in regard to their structural, hydraulic and mechanical performance, safety and also of their positioning and fixing at site. This shall be ensured by the Developer as per standard norms & manuals.
- 
3. The project shall be completed within 42 months from the date of start of the construction work.
  4. The completion cost of the scheme shall be submitted to DoE, GoHP within 6 months from the Commercial Operation Date (COD) of the plant as per HP Govt. Swaran Jayanti Energy Policy, 2021.
  5. The project promoters/project authorities shall give free accessibility to the officers and representatives of DoE, Himurja and other relevant Govt. Departments, Commissions etc. to have on the spot assessment of various aspects of the project.
  6. The firm financial package and tie-up of balance inputs/clearances shall be completed within the period as stipulated in the HP Govt. Swaran Jayanti Energy Policy, 2021 and amendments thereof /Implementation Agreement (IA)/Supplementary Implementation Agreement (SIA).
  7. In case the time gap between the Technical Concurrence (TC) of the scheme and actual start of work on the project is three years or more, a fresh Concurrence shall be obtained from DoE, GoHP before start of actual work.





8. The project developer shall submit monthly hydrological, meteorological data observed at the project site and monthly progress reports on the prescribed format along with expenditure actually incurred to DoE, GoHP, duly certified by statutory auditors till the Commercial Operation of the plant.
9. The DoE, GoHP reserve the right to revoke the TEC, if the conditions stipulated above are not complied with to the satisfaction of the GoHP.

**BY ORDER OF THE GoHP**


  
**Director (Energy),  
Government of Himachal Pradesh**

**No. DoE/CE(Energy)/TC-Baggi HEP/2022- 6455- 62**

**Dated: 01-10-2022**

Copy for information and necessary action to the:

1. The Chief Secretary (Power, NES) to H.P. Govt., Shimla-171002.
2. Secretary, Ministry of Non-Conventional Energy Sources (MNES), Block No.14, CGO Complex, Lodhi Road, New Delhi-110003.
3. Director, Environmental & Scientific Technologies, Narayan Villa, Near Wood Villa Palace, Shimla-171002 (HP).
4. Deputy Commissioner, Mandi, Himachal Pradesh - 175001 (HP).
5. General Manager, HPPTCL, Himfed Bhawan, Panjari, Below Old MLA Quarters, Shimla-171005 (HP).
6. Chief Engineer (SP), HPSEB Ltd, Uttam Bhawan, Dogra Lodge, Shimla-171004 (HP).
7. Chief Engineer (SO), HPSEB Ltd, Vidyut Bhawan, Shimla -171004 (HP).
8. Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019.

  
**Director (Energy),  
Government of Himachal Pradesh**

  
**Sr. Executive Engineer, 17/11/22  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.**


**ANNEXURE-I**

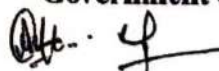
**Baggi HEP (2 x 21 MW) in District Mandi of Himachal Pradesh allotted to "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019".**

**ABSTRACT OF COST ESTIMATE**

<b>Sr. No.</b>	<b>Description of works</b>	<b>Amount (In Rs. Crore)</b>	
<b>a)</b>			
1.	Civil works i/c other Misc. Expenses	117.65	} Price Level December, 2020
2.	Electro Mechanical works	134.00	
3.	Transmission works	5.00	
	<b>Sub Total (a)</b>	<b>256.65</b>	
<b>b)</b>			
1.	Interest During Construction (IDC)	24.01	
	<b>Sub Total (b)</b>	<b>24.01</b>	
	<b>Total (a+b)</b>	<b>280.66</b>	
<b>c)</b>	<b>LADF @1.50 % of (a+b)</b>	<b>4.21</b>	
	<b>Grand Total (a+b+c)</b>	<b>284.87 crore</b>	

**(Rupees Two Hundred Eighty Four Crore and Eight Seven Lakh only)**

  
**Director (Energy),  
Government of Himachal Pradesh**



  
**Sr. Executive Engineer** 7/11/22  
**Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.**



## ANNEXURE-II

**Baggi HEP (2 x 21 MW) in District Mandi of Himachal Pradesh allotted to "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019".**


### I. Tentative Financial Package

Debt : Equity - 70 : 30

Sr. No.	Description	Amount (In Rs. crore)
A	Debt. from Financial Institutions	199.41
B	Equity	85.46
	Total (Debt. + Equity)	284.87

### II. Terms of Loan

Sr. No.	Item	Package
1.	Source of Debt.	Financial Institutions
2.	Loan Amount (In Rs. crore)	199.41
3.	Rate of Interest	10.20 %
4.	Repayment Period	12 Years

  
Director (Energy),  
Government of Himachal Pradesh

  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.

### ANNEXURE-III

**Baggi HEP (2 x 21 MW) in District Mandi of Himachal Pradesh allotted to "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019".**

#### SALIENT FEATURES

##### LOCATION

State	Himachal Pradesh
River	Beas
District	Mandi

Proposal	The Baggi Power Project has been planned utilizing the discharge passing through PBT to generate power at 990 MW Dehar Power Station of BSL Project. The discharge passing through PBT is proposed to be diverted through Baggi Power station which join the Sundernagar Hydel Channel downstream of Baggi Power Station.
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Vicinity	Baggi, Sundernagar
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Accessibility By Road	12 Km upstream of Sundernagar Town in Distt. Mandi
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By Air port	Bhuntar, 80 Km
By Railway Station	BG Kirtpur

Topographical Sheet	53 A/14, 53 E/2 & 53 E/26
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##### Geographical coordinates of the scheme

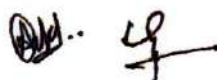
Longitude	76°- 58'-14.10" E	76°- 58'-22.97" E
Latitude	31°- 35'-11.60" N	31°-35'-16.37"N

##### PANDOH RESERVOIR LEVEL

Maximum	El 896.4 m
Normal	El 894.3 m
Intermediate	El 887.3 m
Minimum	El 883.9 m

##### PANDOH-BAGGI TUNNEL

Number	One
Shape and Size	Circular, 7.62 m Dia.
Length	13.20 km
Maximum Capacity	254.90 cumecs





**BY-PASS TUNNEL (Already constructed)**

Number	One
Shape and Size	Circular, 6.10 m Dia.
Length	32.00 m
Total Design Discharge	119.60 cumecs
Maximum Capacity	174 cumecs

**SURGE SHAFT**

Type	Orifice Type
Diameter	a) 7.00 m Dia from El 842.21 m to El 882 m b) 10.00 m Dia from El 882.00 m to El 892.00 m
Height	49.79 m
Orifice Shape and Area	Irregular Shape, 18.35 sq. m

**CATCHER CHAMBER**

Diameter	33 m
Height	14.40 m (from El 882.00 m to El 896.40 m)

**PENSTOCK HEADER**

Number	One
Type	Circular, Steel-lined
Diameter	6.10 m
Length	160.60 m
Thickness of Steel-liner	18 mm

**PENSTOCK**

Number	Two
Type	Circular, Steel-lined
Diameter	4.4 m
Length	45.12 m
Thickness of Steel-liner	18 mm

**DRAIN PIPES**

Number	Two
Diameter	2.5m
Length	300m
Thickness	16mm

**POWER HOUSE**

Type	Surface Power House
Size of Machine Hall	40 m X 23 m X 12 m(LxBxH)
Design Discharge-2 Units	119.6 cumecs
Installed Capacity	42 MW (2 x 21 MW)
Maximum Head	49.54 m
Net Design Head	38.94 m
Minimum Head	21.34 m

**TURBINE**

Type of Turbine	Vertical Francis
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*[Handwritten signature]*

Maximum output	23.45 MW
Rated output	21.32 MW
No. of Units	Two
Synchronous Speed	187.5 rpm
Specific speed	283 rpm
Nominal Runner Dia.	3200 mm
Type of Main Inlet Value	Butterfly
Nominal Dia.	4000 mm
Type of Syn. Bypass Value	Howel Bunger Type
Size of Syn. Bypass Value	2200mm
No. and Capacity of Units	2 Nos. of 21 MW each
Efficiency	93.50%
Service Bay Level	El 848.00 m
Bottom of Daft Tube	El 830.60 m
Centre Line of Turbine	El 840.00 m

#### **TAIL RACE CHANNEL**


Size	29 m (L) x 14.32 m (W)
Minimum Tail Water Level	El 842.59 m
Maximum Tail Water Level	El 844.23 m


#### **GENERATOR**

Type	Vertical Shaft Umbrella type
Power Output	2 x 21 MW.
Continuous overload	10%CoL
Power Factor	0.85 lag
Generator Voltage	11 kV
Efficiency	98.50%

#### **POWER GENERATION**

Installed Capacity	42 MW
Annual Energy Generation	
90% Dependable Year	135.60 MU per Annum
Construction period	42 months

  
**Director (Energy),**  
**Government of Himachal Pradesh**

  
**Sr. Executive Engineer,**  
**Hydel Channel & Baggi Gate Divn.,**  
**B.B.M.B. Sundernagar.**



# ANNEXURE-IV

**Baggi HEP (2 x 21 MW) in District Mandi of Himachal Pradesh allotted to "Bhakra Beas Management Board (BBMB), Sector 19-B, Madhya Marg, Chandigarh-160019".**

## LIST OF STATUTORY AND ADMINISTRATIVE CLEARANCES REQUIRED

Sr.No.	ITEM	AGENCY	REMARKS
1.	WATER AVAILABILITY	1. State Govt. 2. CWC	Interaction with State Govt. Deptt. & CWC required. Relevant Irrigation Act of the State & Central Water Commission to be implemented.
2.	HPSEBL CLEARANCE	1. HPSEBL. 2. State Govt.	As per Indian Electricity Act, 2003.
3.	POLLUTION CLEARANCE WATER AND AIR	State/Central Pollution Control Board	Water (Prevention & Control of Pollution) Act, 1974 Air (Prevention & Control of Pollution) Act, 1981.
4.	FOREST CLEARANCE	1. State Govt. 2. MoEF & CC, GoI.	Coordination with State Forest Deptt./ Min. of Environment & Forest (MoEF & CC) regarding Forest (Conservation) Act, 1980.
5.	ENVIRONMENT & FOREST CLEARANCE	1. State Govt 2. MoEF & CC, GoI.	As per item (3) & (4) and Latest Govt. Policy in force.
6.	REGISTRATION	Registrar of Companies.	Under Indian Companies Act, 1950.
7.	REHABILITATION & RESETTLEMENT OF DISPLACED FAMILIES BY LAND ACQUISITION	1. State Govt 2. MoEF & CC, GoI.	
8.	EQUIPMENT PROCUREMENT	Directorate General of Foreign Trade (DGFT)	As per Import & Export Acts.

**Director (Energy),  
Government of Himachal Pradesh**

**Sr. Executive Engineer,**  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.



**H.P. POWER TRANSMISSION CORPORATION LIMITED**

(A State Government Undertaking)

**HIMFED Bhawan, Panjari, New ISBT Road  
SHIMLA - 171005**

**CIN: U40101HP2008SGC030950**

**ANNEXURE-V**

No. HPPTCL/Plg/TEC/Vol-IX/2021-7282-83 Dated: - 23/08/21

To

✓ **Chief Engineer (Energy),  
Directorate of Energy, GoHP,  
New Shimla, 171009.**



**Sub: - Regarding Power Evacuation of (2 x 21 MW) Baggi HEP**

Sir,

This is with reference to Transmission Part of DPR (Detailed Project Report) of Baggi HEP (2 X 21 MW) (Copy Enclosed) in receipt of HPPTCL for grant of TEC. BBMB vide their letter No.3995-97/CS/C-134/Vol-VI, dated-11.08.2021, (Copy Enclosed) have further clarified that the generation of the project is during lean period from 1<sup>st</sup> October to 20<sup>th</sup> April.

In this regard it is intimated that the Baggi HEP (2 x 41 MW) shall be evacuated by S/C LILO of Kangoo - Bajaura line subject to shifting of Malana-I HEP to 220/132 kV Charor Substation of HPPTCL.

It is further added that in case of any delay in shifting of Malana- I HEP to 220/132 kV Charor substation of HPPTCL, the power of the Baggi HEP shall be evacuated through the above arrangement with provision of SPS if required, as corridors for evacuation are expected to be relieved during the projected period of generation of Baggi HEP.

Yours faithfully,

**GM (C&D)  
HPPTCL, Shimla-05**

**Copy to-**

1. Chief Engineer (System Planning) HPSEBL, Dogra Lodge, Shimla 171004.

Director (Energy)  
C.E (Energy)  
S.E. 1 (Dam, Env. IT Wb, SDA, Safety)  
S.E. 2 (TEC)  
S.E. 3 (Power Sale, SDA, Commercial Billing)  
S.E. 4 (Allot, Policy, LADF, Legal, V.S., Monitoring)  
Admin., Accounts & Finance

**GM (C&D)  
HPPTCL, Shimla-05**

*SECRET*

*25/8/2021*

*Pl. file.*

**Sr. Executive Engineer, 7/11/22  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.**



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**


**UNDERTAKING TO PROVIDE FOREST RIGHT ACT (FRA)  
CERTIFICATE**

I Addl. Superintending Engineer, Hydel Channel & Baggi Gate Division BSL (P) BBMB Sundernagar Construction of 2 x 21 MW (42 MW) Baggi Hydro Electric Power Project Distt- Mandi (H.P.) here by undertake the FRA Certificate is applied for the competent authority as and when the FRA Certificate is received the same will be submitted to your good office for taking further necessary action please.

  
15/11/2022  
**Sr. Executive Engineer**  
Hydel Channel & Baggi Gate Divn..  
B.P.M.B. Sundernagar.

**UNDERTAKING TO PROVIDE FOREST RIGHT ACT (FRA)  
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Sr. Executive Engineer 15/11/2022  
Hydel Channel and B.G Division Executive Engineer,  
BBMB Sundernagar. Distt- Mandi (H.P.) Baggi Gate Di  
B.M.B. Sundernagar.





हिमाचल प्रदेश HIMACHAL PRADESH

07AA 476746

मैं सुरेश कुमार सपुत्र श्री नीलमणी सपुत्र श्री गणेश दत्त, मकान नं० 34/10 चबाहटा बाजार मण्डी, तहसील सदर, जिला मण्डी (हि०प्र०) ब्यान करता हूं कि मेरी भूमि तहसील बल्ह के मुहाल खियूरी दोम/285 खसरा नम्बर 467 रक्वा तादादी 14-09-14 वीधा बारानी अब्बल में से खसरा नम्बर 467/1 रक्वा बकदर 02-02-01 वीधा बी.बी.एम.बी. द्वारा बग्गी जल विद्युत परियोजना के लिये अधिग्रहण किया जाना प्रस्तावित है। यदि बी.बी.एम.बी. द्वारा बग्गी जल विद्युत परियोजना के लिये मेरी उपरोक्त भूमि का अधिग्रहण होता है तो मुझे किसी प्रकार की आपत्ति (एतराज) नहीं है।

दिनांक:- 20.10.2022

हस्ताक्षर

*Suresh Kumar*  
शपथकर्ता

*Identified By:*  
*Ashok Kumar*  
*Patel*  
*AM* 20/10/2022

ATTESTED

Executive Magistrate  
Mandi Distt. Mandi (H.P.)

*Sr. Executive Engineer*  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.

Sr. No 4593

Suresh Kumar S/o Sh. Neelmani R/O H.No.34/10 Chabata Bazar Mandi  
Tehsil Sadar , Distt. Mandi , H.P.

For Affidavit.

*[Signature]*

*JD 20/10/2022*  
HALKU U STAMP VENDOR

Distt. H.Q COMPLEX MANDI,

Distt. Mandi, H.P.

516

Certified that the above ~~was~~ declared before me on 20 day of 10 2022 at Mandi town by deponent who is personally known to me or identified by Sh. Shok Kumar Patwari who is known to me. Certified that this affidavit has been read and explained to deponent who seemed perfectly to understand the same at the time of making thereof.

*[Signature]*  
Sign. of Thunk  
ma of Deponent

*[Signature]*  
Sign. of  
Identifier

*[Signature]*  
Executive Magistrate  
Mandi/H.P.

*[Signature]*  
Sr. Executive Engineer  
Hydel Channel & Baggi Gate Divn..  
B.B.M.B. Sundernagar.



# भारत का राजपत्र The Gazette of India

प्रकाशन

EXTRAORDINARY

भाग II—खण्ड 3—उपखण्ड (ii)

PART II—Section 3—Sub-section (ii)

प्रधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 470]

नई दिल्ली, रविवार, अक्टूबर 1, 1967/आश्विन 9, 1889

No. 470]

NEW DELHI, SUNDAY, OCTOBER 1, 1967/ASVINA, 9, 1889

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation

## MINISTRY OF IRRIGATION AND POWER

### NOTIFICATIONS

New Delhi, the 1st October 1967

S.O. 3506.—In exercise of the powers conferred by sub-sections (1) and (2) of Section 79 of the Punjab Reorganisation Act, 1966 (31 of 1966), the Central Government hereby constitutes the Bhakra Management Board, consisting of the following persons, namely:—

1. Shri N. G. K. Murti,  
Retired Chief Engineer,  
Government of Maharashtra
2. Shri B. R. Palta,  
now working as General Manager,  
Bhakra Dam,  
Nangal Township
3. Shri G. S. Gyan,  
(now working as Chief Engineer  
(Construction), Electricity,  
Patiala)
4. Secretary in charge of Irrigation  
and Power, Government of Punjab
5. Secretary in charge of Irrigation  
and Power, Government of Haryana
6. Secretary in charge of Irrigation  
and Power, Government of Rajasthan
7. The Chief Engineer,  
Multipurpose Projects and Power,  
Government of Himachal Pradesh

whole time Chairman and  
whole time Members ap-  
pointed by the Central  
Government under clause  
(a) of sub-section (2) of  
the said section 79.

Representatives of the  
Governments of the States  
of Punjab, Haryana and  
Rajasthan and the Union  
territory of Himachal Pra-  
desh, nominated by the  
respective Governments  
and Administrator under  
clause (b) of the said sub-  
section (2).

- (v) recommending to the concerned Governments suitable measures for the development of pisciculture;
- (vi) undertaking of suitable measures for the rehabilitation of persons displaced consequent on the construction of the Project;
- (c) any other function that may be delegated to the Board by the Central Government.

2. The Board shall have a Secretary who may be provided with such staff as may be necessary for the efficient discharge of his functions as such, and the office of the Secretary shall be located at New Delhi.

3. The Board may appoint such staff (other than that referred to in paragraph (2)) as may be necessary for the efficient discharge of its functions

(No. F. 17/23/66-B&B.)

K. P. MATHRANI, Secy.

  
Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
B.S.M.B. Sundernagar.



1. The Joint Secretary,  
Ministry of Finance,  
(Department of Expenditure),  
Government of India.
2. The Commissioner for Indus Waters  
and Ex-officio Joint Secretary in  
the Ministry of Irrigation and  
Power, Government of India.

Representatives of the  
Central Government nomi-  
nated by that Govern-  
ment under clause (c) of  
the said sub-section (2).

[No. F. 6/3/66-B&B]

S.O. 3367.—In exercise of the powers conferred by sub-sections (2) and (3) of section 80 of the Punjab Reorganisation Act, 1966 (31 of 1966), the Central Government, in consultation with the Governments of the successor States and the State of Rajasthan, hereby constitutes the Beas Construction Board (hereinafter referred to as the Board) consisting of the following persons, namely:—

**Chairman**

- (1) The Minister of Irrigation & Power, Government of India

**Members**

- (2) The Chief Ministers of Punjab, Haryana, Himachal Pradesh and Rajasthan
- (3) One Minister each from the States of Punjab, Haryana and Rajasthan, to be nominated by the respective Governments
- (4) The Secretary to the Government of India, Ministry of Irrigation and Power.
- (5) The Chairman, Central Water and Power Commission
- (6) The Joint Secretary to the Government of India, Ministry of Finance (Department of Expenditure)
- (7) The Secretaries in charge of Irrigation and Power of the Government of Punjab and of the Government of Haryana
- (8) The Secretary to the Government of Rajasthan in charge of Colonisation and the Secretary to that Government in charge of the Beas Project
- (9) The Secretary in charge of Finance in the Government of Punjab, of Haryana and of Rajasthan
- (10) The Chief Secretary to the Government of Himachal Pradesh
- (11) The General Manager, Beas Project
- (12) The Chairman, State Electricity Boards of Punjab, Haryana and Rajasthan

and assigns to the Board the following functions, namely:—

- (a) the construction, in an efficient, economical and expeditious manner, of the Beas Project (hereinafter referred to as the Project) including the completion of any work already commenced, but excluding the fifth generating unit of 120 M.W. capacity at Bhakra Right Bank Power House; and
- (b) all other functions in relation to the project, including—
  - (i) Scrutiny of the Project estimates and making of any modification thereto and recommending the estimates for the administrative approval of the Central Government;
  - (ii) delegation of such powers, both technical and financial, as the Board may deem necessary, to the General Manager and other officers employed on the execution of the Project;
  - (iii) regulation of the construction of different parts of the Project and preparation of a phased programme of early utilisation of irrigation and power benefits;
  - (iv) recommending to the concerned Governments suitable soil conservation measures in respect of the catchment areas.

*S. B. M. B.*  
Sr. Executive Engineer, 12/22  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.

(TO BE PUBLISHED IN PART II SECTION 3 SUB-SECTION (11)  
OF THE GAZETTE OF INDIA.)

EXTRAORDINARY

GOVERNMENT OF INDIA  
MINISTRY OF ENERGY  
DEPARTMENT OF POWER

NEW DELHI, the 15th May, 1976.

NOTIFICATION

No. SO 350 (E) WHEREAS the components of the Beas Project namely, Bhatinda - Sangrur 220 KV transmission line and new Panipat sub-station, have been transferred to the Bhakra Management Board by the notification of the Government of India in the Ministry of Energy (Department of Power) No. S.O. 340 (E) dated the 15th May, 1976.

NOW, THEREFORE, in exercise of the powers conferred by sub-sections (1) and (2) of section 79, read with sub-section (6) of section 80, of the Punjab Re-organisation Act, 1956 (31 of 1956), the Central Government hereby makes, with effect from the 15th May, 1976, the following amendment to the notification of the Government of India in the late Ministry of Irrigation and Power No. SO 3506, dated the 1st October, 1967, namely:-

In the said notification, for the words "the Bhakra Management Board", the words "the Bhakra Beas Management Board" shall be substituted.

( F No. 21/14/76-B&B )

*R. Bhargava*

( R.C. BHARGAVA )

JOINT SECRETARY TO THE GOVERNMENT OF INDIA

To

The Manager,  
Government of India Press  
Mazgaon Ring Road  
New Delhi.

.....along with Hindi vers:

.....E.

*S. S. S.*  
Sr. Executive Engineer  
Hydel Channel & Baggi Gate Dwn.,  
S.E.M.B. Sundernagar.



विद्युत अनुभाग  
आवृत्ति क्रमांक

1020  
22.7.19

File No. MPP-F(2)-1  
Government of Himachal Pradesh  
Department of MPP& Power

From

The Principal Secretary (Power) to the  
Government of Himachal Pradesh

The Secretary,  
Bhakra Beas Management Board,  
Madhya Marg, Sector 19-B,  
Chandigarh-160019.

Dated Shimla-2, the

10-07-2019

Subject: -

Allotment of 2x20 MW (40 MW) Baggi Power House (BPH) to  
Bhakra Beas Management Board (BBMB).

Madam,

I am directed to refer to the subject cited above and to say that the  
matter regarding allotment of 2x20 MW (40 MW) Baggi Power House (BPH) to  
Bhakra Beas Management Board (BBMB) was placed before the Council of  
Ministers in its meeting held on 03.07.2019 and it was decided to allot the aforesaid  
project in favour of Bhakra Beas Management Board (BBMB). This is for your  
information.

Yours faithfully

Special Secretary (Power) to the  
Govt. of Himachal Pradesh

Dated Shimla-02, the 10-07-2019

Endst. No. As above

Copy to the Director, Directorate of Energy, Shanti Bhawan, Phase-III, Sector-VI,  
New Shimla-9, Himachal Pradesh for information.

Special Secretary (Power) to the  
Govt. of Himachal Pradesh

Sr. Executive Engineer, 7/11/22  
Hydel Channel & Baggi Gate Divn.,  
B.B.M.B. Sundernagar.



No. 5-4/1/2019 – BBMB  
Government of India  
Ministry of Power  
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New Delhi, the dated 22<sup>nd</sup> October, 2019

To  
The Chairman  
Bhakra Beas Management Board  
Sector 19/B, Madhya Marg,  
Chandigarh

Subject: Execution of 40MW (2x20MW) Baggi Power House by BBMB.

Sir,

I am directed to refer to BBMB's letter No. 30245/B-103/Baggi/IP dated 19.09.2019 on the above mentioned subject and to convey herewith the approval of Competent Authority to formally assign the work of construction and execution of Baggi Power House to BBMB.

This issues with the approval of Hon'ble Minister of State (I/C) for Power and NRE.

Yours faithfully,

(Rita Singh)

Under Secretary to the Govt. of India

Telefax: 23766242


Sr. Executive Engineer,  
Hydel Channel & Baggi Gate Divn.,  
S.B.M.B. Sundernagar.



**Proposal Title: C/o Hydro Power Project Baggi (2x21 MW)**

**Certificate for Water Intake**

Water diverted from Pandoh Dam on Beas river is being transported through Pandoh Baggi Tunnel for existing Beas Satluj Link Project (BSL Project) and the same water will also be used for 2x21 MW Baggi Power Project and no extra water will be taken for this 2x21 MW Baggi Power Project.

  
Er. S.P. Sharma  
Sr. Xen,  
HC & BG Divn., SNR.

15/11/2022