

Full Title of the Project :- Tundah-II Hydro Electric Project. 8  
 File No. :- FP/HP/HYD/49283/2020.  
 Date of Proposal :- 31/08/2020.

**Check List Serial No. 3.**

**APPENDIX (See Rule 6)**

**FORM - 'A'**

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

**PART-I**

(Filled up by user agency)

**DIVERSION OF 13.3082 HECTARES OF FORESTLAND IN FAVOUR OF SAI ENGINEERING FOUNDATION, SAI BHAWAN, SECTOR-4, NEW SHIMLA-171009 (H.P.) FOR THE CONSTRUCTION OF TUNDIAH-II HYDRO ELECTRIC PROJECT WITHIN THE JURISDICTION OF BHARMOUR AND SWAI FOREST RANGE(S), BHARMOUR FOREST DIVISION, DISTRICT CHAMBA, HIMACHAL PRADESH.**

1	<b>PROJECT DETAILS</b>	
(i)	Short narrative of the proposal and project/scheme for which the forest land is required.	<p>Tundah-II HEP (24 MW) is a run-of-river scheme allotted by the Government of Himachal Pradesh to this Organisation for harnessing the power potential of Tundah Stream (a tributary of Ravi River) which is situated within the jurisdiction of Bharmour and Swai Forest Range(s), Bharmour Forest Division, District Chamba, Himachal Pradesh.</p> <p>The Diversion Structure has been proposed over Tundah Stream at an elevation of <math>\pm 1625</math> m and Power House site has been proposed in the right bank of Budhil Stream in the opposite direction of Lahal Village. This project site is accessed through Chamba-Kharamukh-Bharmour Road which is about 4 Km. away from Kharamukh.</p> <p>The generated power shall be interfaced with HPPTCL Sub Station at Lahal by laying approximately 1.25 Kms. long 33 KV overhead Double Circuit transmission line from this proposed power plant upto interfacing point at Lahal.</p>
(ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50000 scale map.	Map attached as per <b>Check List No.5 at Page No-20.</b>
(iii)	Cost of the project.	Rs. 223.45 Crore.
(iv)	Justification for locating the project in forest area.	Other alternatives were studied in detail, keeping in view the cost



		effectiveness, ecological disturbances, stability of strata and barest minimum forest land with least numbers of trees getting affected. <b>Alternate No-1 has been recommended</b> out of three alternates, which is cost effective, economically viable, socially equitable, culturally acceptable, ecologically compatible, environmentally sustainable and barest minimum forestland. As per this proposal, there is no loss to the environment and ecological degradation. Keeping in view the aspects of geologically and environmentally, we have proposed all the components at safe locations.
(v)	Cost-benefit analysis	Living standard of the people will be improved considerably by getting employment opportunity during the construction activities as well as after commissioning of the project which will help in uplifting the poor economy of the area. Detailed Cost Benefit Analysis is attached as per <b>Check List No-29 at Page No. 95-100.</b>

(vi). **Employment likely to be generated.**

a). **During Construction Period:-**

Period	Professional/ Technical	Skilled Labour	Unskilled Labour	Total
1 <sup>st</sup> Year	15	90	130	235
2 <sup>nd</sup> Year	15	90	130	235
3 <sup>rd</sup> Year	25	120	160	305
4 <sup>th</sup> Year	25	120	160	305
<b>TOTAL</b>				<b>1080</b>
<b>Total Men Days (1080 Nos. X 365 Days = 394200) during construction period.</b>				

b).	<b>During Operation and Maintenance Period (Post Construction):</b>			
Period	Professional/ Technical	Skilled Labour	Unskilled Labour	Total
Upto 40 Yrs. From COD.	15	10	10	35

<b>2.</b>	<b>Purpose wise break-up of the total land required.</b>	Total forestland measuring 13.3082 ha. is to be diverted as per <b>Check List Sr. No-7 at Page No-23 to 26.</b>		
S.No	Name of Muhal	(Area in Hectares)		
		Forest Land	Non-Forest Land	Total Land
<b>A.</b>	<b>FOREST RANGE SWAI</b>			
i).	Tundah (Hadbast No-26)	1.1796	-	1.1796
	<b>Total (A)</b>	<b>1.1796</b>	<b>NIL</b>	<b>1.1796</b>



<b>B.</b>	<b>FOREST RANGE BHARMOUR</b>			
i).	Palan (Hadbast No-42)	2.5508	-	2.5508
ii).	Sird (Hadbast No-44)	9.2109	-	9.2109
iii).	Lahal (Hadbast No-124)	0.3669	-	0.3669
<b>Total (B)</b>		<b>12.1286</b>	<b>NIL</b>	<b>12.1286</b>
<b>TOTAL AREA (A+B)</b>		<b>13.3082</b>	<b>NIL</b>	<b>13.3082</b>
3.	<b>Details of displacement of people due to the project, if any.</b>			
(i)	Number of families.	None		
(ii)	Number of Scheduled Castes/ Scheduled Tribe families.	None		
(iii)	Rehabilitation plan, (to be enclosed).	Not Required.		
4.	Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No).	No.		
5.	Undertaking to bear the cost of raising and maintenance of compensatory afforestation and/ or penal compensatory afforestation as well as cost for protection and regeneration of Safety Zone, etc. as per the scheme prepared by the State Government (undertaking to be enclosed).	Copy of undertaking attached as per <b>Check List No. 12 at Page No-35.</b>		

<b>6.</b>	<b>Details of Certificates/ documents enclosed as required under the instructions:-</b>	
i)	Demand Letter.	7
ii)	Part-I for seeking prior approval under section-2.	8-11
iii)	Detailed note on the project.	17-20
iv)	Layout plan on toposheet, topographical layout plan and DGPS Map.	21-23
v)	Detail of forest area proposed for diversion.	24-27
vi)	Detail of non-forest area.	28
vii)	Certificate from D.C. Chamba regarding No alternative suitable forest land is available.	29
viii)	Justification for locating the project in forest area.	30
ix)	Certificate of minimum use of forest area i/c alternatives examined.	31-35
x)	Undertaking for payment of cost of Compensatory Afforestation.	36
xi)	Undertaking for payment of NPV and additional amount of NPV of forest area.	37
xii)	Undertaking regarding FRA, 2006 certificate.	38-40
xiii)	Joint certificate regarding Non-availability of non-forest land for raising of Compensatory Afforestation.	67
xiv)	Undertaking regarding Catchment Area Treatment Plan (CAT Plan).	68
xv)	Reclamation Plan of Muck Dumping Sites.	69-93
xvi)	Cost Benefit Analysis for diversion of forest land.	94-99
xvii)	Revenue papers of Muhal - Tundah.	100-107
xviii)	Revenue papers of Muhal - Palan.	108-114
xix)	Revenue papers of Muhal - Sird.	115-127
xx)	Revenue papers of Muhal - Lahal.	128-132
xxi)	Joint Inspection Report.	133-137
xxii)	NOC obtained from HPPWD.	138




//

xxiii)	Distance certificate / NOC obtained from DFO Wild Life Chamba and PCCF(W/L) Shimla.	139-140
xxiv)	Notification regarding obtaining NOC from Gram Panchayat(s).	141
xxv)	Various undertaking / certificate.	142-143
xxvi)	Detail of villages and population to be benefitted.	144
xxvii)	Detail regarding proposed approach road and transmission line.	146-151
xxviii)	Component wise detail of total area required.	152-156
xxix)	Allotment letter.	157
xxx)	Undertaking regarding Techno Economic Clearance (TEC).	158-160
xxxi)	Undertaking regarding Implementation Agreement.	161-179
xxxii)	NOC obtained from IPH Department.	180
xxxiii)	Undertaking regarding NOC from Fisheries Department.	181-183
xxxiv)	Authority Letter.	184

Dated : 31.08.2020.

Place : Bharmour.

  
**(Vijay Barwal)**  
 (Authorised Signatory),  
 Sai Engineering Foundation,  
 Sai Bhawan, Sector-4,  
 New Shimla-171009 (H.P.).