

Full Title of the Project: **Thana Plaun (191MW) Hydroelectric Project**
 Proposal No. : **FP/HP/HYD/8255 /2014**
 Date of Proposal: **November 29th,2014**

CHECKLIST No. 2

FORM-"A"

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

S.No.		Project details:	authorities																	
1. (i)	Short narrative of the proposal and project/scheme for which the forest land is required.	Himachal Pradesh Power Corporation Ltd. (HPPCL), a State Govt. Undertaking has been incorporated with the objective to plan, promote and organize the development of all aspect of hydroelectric power on behalf of Himachal Pradesh Government (Govt of HP) and Himachal Pradesh Electricity Board Ltd (HPSEBL) in Himachal Pradesh. Total 21 Hydro Electric Project (HEPs) have been allotted to HPPCL and Thana Plaun (191 MW) HEP in River Beas basin of H.P. is one of the projects which has been taken up by HPPCL for implementation. Thana Plaun Hydro-electric Project (191 MW) is conceived as storage cum run-of-river scheme. The project envisages the construction of 85 m high concrete gravity dam above river bed level across river Beas basin in the Mandi district of Himachal Pradesh. The proposed Thana Plaun Hydro-electric Project located in Mandi District of Himachal Pradesh, lies between Longitude 760 15' to 770 45' East and Latitude 350 45' to 320 30' North.																		
(ii)	Map showing the required forest land, boundary of adjoining forest on a 1:50,000 scale map.	Refer Checklist No. 4.																		
(iii)	Cost of the project:	<p>The construction cost of the project estimated to be Rs. 2223.59 crores (Price level November,2016)</p> <table><tr><td>i) Civil works incl. Hydro-mechanical works</td><td>:</td><td>1222.08crores</td></tr><tr><td>ii) Electro-mechanical works</td><td>:</td><td>302.77 crores</td></tr><tr><td>Total basic cost incl. direct & indirect charges</td><td>:</td><td>1547.72crores</td></tr><tr><td>iii) Initial spare part i.e. 1.5% of original Project cost</td><td>:</td><td>22.87 crores</td></tr><tr><td>iv) Escalation during construction</td><td>:</td><td>272.06 crores</td></tr><tr><td>v) Financing charges and IDC</td><td>:</td><td>403.81 crores</td></tr></table>	i) Civil works incl. Hydro-mechanical works	:	1222.08crores	ii) Electro-mechanical works	:	302.77 crores	Total basic cost incl. direct & indirect charges	:	1547.72crores	iii) Initial spare part i.e. 1.5% of original Project cost	:	22.87 crores	iv) Escalation during construction	:	272.06 crores	v) Financing charges and IDC	:	403.81 crores
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(iv)	Justification for locating the project in forest area.	With the state of Himachal Pradesh having about 65 % of its total geographical area classified as forestland, no project of this magnitude can be constructed without involvement of forestland. The project has been studied in detail while conducting the investigation to weigh and decide on the technical details and in the process various alternatives have been considered, analyzed/scrutinized with the option of locating them on either of the banks of Beas from not only technical point of view but also from the angle of causing least damage to environment besides using least forest area. Consequent to this exercise, alignment along left bank has been found best suited as the components of the project intercept less forestland as compared to all other available feasible options. Various options considered have been depicted on a map enclosed as Checklist No. 10 on Page No..																		
(v)	Cost-benefit analysis (to be enclosed).	Refer Checklist No. 33.																		
(vi)	Employment likely to be generated.	<p>Direct employment of 1200 persons (for period of three years), during construction phase.</p> <p>Direct employment of 200 persons (for a period of 50 years), during Pre and Post construction phase.</p>																		

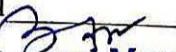
		In addition, the project would generate indirect employment in both construction and operations phases like tourism, fishery, small industry, retail business and distantly located industries supplied with power from the project.								
2	Purpose-wise break-up of the total land required:									
Sr.No.	Component	Jogindernagar Forest Division			Mandi Forest Division			Total Forest Land in Hectares		
		Open	U/G	Pvt. Forest land kism jungle jhari	Open	U/G	Pvt. Forest land kism jungle jhari	Open	U/G	Pvt. Forest land kism jungle jhari
1	Dam & requisite associated Job facilities	0.4854	0	0	2.583	0	0	3.0685	0	0
2	Coffer Dam & requisite associated Job facilities	0.0809	0	0	0.080	0	0	0.1618	0	0
3	Plunge Pool i/c D/s of Coffer Dam	0.1618	0	0	0.161	0	0	0.3236	0	0
4	Pot Head Yard, Cable Tunnel & requisite associated	0.1294	0	0	0	0	0	0.1294	0	0
5	Magazine	0.2124	0	0	0	0	0	0.2124	0	0
6	Road / Job facility	27.295	0	0	3.583	0	0	30.879	0	0
7	Dumping Sites	10.349	0	0	0	0	0	10.349	0	0
8	Quarry Sites	45.942	0	0	0	0	0	45.942	0	0
9	Submergence	80.826	0	0	227.273	0	1.3375	308.09	0	01.3375
10	Diversion Tunnel & requisite associated Job facilities	0	0	0	0	01.213	0	0	1.2136	
11	Intake & requisite associated Job facilities	0	0.161	0	0	0	0	0	0.1618	0
12	HRT & requisite associated Job facilities	0	1.106	0	0	0	0	0	1.1068	0
13	MAT & requisite associated Job facilities	0	1.051	0	0	0	0	0	1.0518	0
14	Power House & requisite associated Job facilities	0	0.323	0	0	0	0	0	0.3236	0
15	Pressure Shaft/ Penstock	0	0.242	0	0	0	0	0	0.2427	0
16	Transformer Cavern i/c draft tube & escape tunnel, cable Tunnel & requisite associated Job facilities	0	1.618	0	0	0	0	0	1.6181	0
17	Tail Race Tunnel & requisite associated Job facilities	0	0.161	0	0	0	0	0	0.1618	0
18	Adit & requisite associated Job facilities	0	0.408	0	0	0	0	0	0.4086	0
	Total	165.48	5.075	0	233.68	01.213	1.3375	399.16	6.2888	1.3375
	Grand Total	170.558			236.2336			406.7916		
3	Details of displacement of people due to the project, if any:		Project components do not involve any displacement of an individual or a family.							
i	Number of families.		8 Nos. families will have their houses submerged. However, the said families have additional land in the vicinity. The same shall be covered							

		under R&R Plan of HPPCL.
ii	Number of Scheduled Castes/Scheduled Tribe families	01 no. family will have its house submerged. However, the said family has additional land in the vicinity. The same shall be covered under R&R Plan of HPPCL.
iii	Rehabilitation plan. (to be enclosed)	Refer Checklist No. 30.
4	Whether clearance under Environment (Protection) Act, 1986 required? (Yes/No).	Refer Checklist No. 27.
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).	Refer Checklist No. 11.
6	Details of Certificates/documents enclosed as required under the instructions.	1. Map showing location of the project (including roads etc) on 1:50,000 scale (Checklist No. 4). 2. Justification: Alternative sites considered/examined and reasons for their rejection (Checklist No.10). 3. CB analysis (Checklist No. 33). 4. Component-wise land requirement of the project and its current land use. (Checklist No. 6). 5. EAC recommendation from MoEF&CC, GOI (Checklist No. 27). 6. Undertaking to bear the cost of Compensatory Afforestation (CA), (Checklist No. 11). 7. Revenue papers of the land involved

Date---01/12/2020
Place---Kotli

(Signature of User Agency)

Office seal


General Manager
TM & TP HEPs HPPCL
Kotli, Distt. Mandi (H.P.)