

HIMACHAL PRADESH STATE ELECTRICITY BOARD
"A STATE GOVT. UNDERTAKING"

No. HPSEBL-CE(I&P)DB-9-67/2011- 4846-99

Dated:- 22-2-11

To

The Deputy Commissioner,
Distt. Chamba (H.P.).

Sub:- Assessment Note on location of Project Component of Right Bank and left Bank.

Ref:- Your office letter No.RRO/CBA/Bajoli Holi HEP/2010-3975 dated 18.8.2010.

CP
62
16.1.19

Sir,

Please refer to your office letter under reference addressed to the Chief Engineer. (Projects-Cum-Arbitrator). HPSEBL, Shimla vide which comments on the assessment note submitted by M/S GMR has been sought for. The requisite point wise reply is as under:-

- | | |
|-------------------|--------|
| 1. 0 Introduction | Agreed |
| 2. 0 Background | -do- |
| 3. 1 Dam | |

The Dam site has been finalized by HPSEB about ± 800 m D/S of confluence of Channi Nallah with river Ravi after series of visits by the Planning Engineers & Geologist from Geological Survey of India as well as after conducting detailed field Investigations of the site.

3.2 POWER HOUSE

The location of Power House was finalized after numerous Joint visit of Project sites conducted by the team of Planning, Design & Field units alongwith Geologist from Geological Survey of India. A pit type Power House was recommended on the right bank by the Geological Survey of India as per their inspection note attached Annex-I

HPSEB has carried out exploratory drilling by driving 3 Nos drill holes at the prosed Power House site and the results of which has been appended in the DPR's (chapter No-VII Page 42 to 47). The log sheets of which clearly shows the presence of hard and compact Moderately Jointed Phyllite with low permeability value, from EL. + 1712.559 m to 1700.559 m. Also the L-section developed through the Power House, as per the Survey supplied by the field units reveals a cut of 62.20m i.e. from EL. 1758 m to EL. 1695.80 m instead of 205 m as pointed out by the IPP. There is no need of shifting of Power House towards the hill side as pointed out by the IPP.

-Cont.-

3.3 HEAD RACE TUNNEL

The HRT of the project has been proposed on the right bank to carry 77.80 cumess of water through a 5.6 mtr dia, 14.10 KM long modified horse shoe type tunnel.

The rock cover was also taken care while finalising the tunnel alignment in consultation with design Engineers & Geologist from G.S.I. The rock cover is not based on the version of the IPP. Based on the Drg of HRT Plan & section (Drg. No. PR-10) annexed in DPR Vol-I the rock cover is as under:-

<u>RD</u>	<u>COVER ADD.</u>
0	224 mtr.
970	224 mtr.
1140	324 mtr.
1710	524 mtr.
2290	924 mtr.
2720	624 mtr.
3140	324 mtr.
4000	624 mtr.
4710	474 mtr.
5460	174 mtr.
5940	724 mtr.
6342	724 mtr.
6742	824 mtr.
7028	624 mtr.
7285	424 mtr.
7628	624 mtr.
8056	824 mtr.
8542	1074 mtr.
8970	1024 mtr.
9342	1224 mtr.
9713	1224 mtr.
9999	1024 mtr.
10342	724 mtr.
10570	424 mtr.
10828	324 mtr.
10998	324 mtr.
11428	224 mtr.
11827	324 mtr.
12113	524 mtr.
12513	574 mtr.
12913	324 mtr.
13142	174 mtr.
13427	124 mtr.
14100	74 mtr.

- However in case of HRT having very high covers, the tunnel alignment may be shifted as per the suitability in Technical Design consideration.

3.2 WORKING FACILITIES.

Like all the working facilities Crushing Plants, Batching Plants, storages, Muck dumping area etc are proposed to be located on left bank by HPSEB Ltd.

4.00 DETAILED STUDIES OF THE PROJECT LAYOUT ON BOTH THE BANK

The HPSEB has conceived the Project on the right bank due to the following reasons

- Minimum disturbance to the local people living in the surrounding areas of the project.
- To minimize the risk of drying of subsurface face water sources, local lakes and Ponds etc. by driving HRT on the left bank, as most of the population and their cultivated land is on the left bank.
- Sara Dal(Lake) is the religious places like Mani Mahesh. Dal is attached deeply with the religious sentiments of the people of surrounding areas and thus no risk can be taken to harm the Dal.
- The left bank of the river appears more disturbed. During 1998, heavy lands slide occurred in Andhrala and Dayothal villages due to flood's caressed by glacial melting. Also as per GSI inspection Note submitted during may 2004, the Andhrala village is situated on an ancient land slide zone.

The G.S.I. reports quoted under reference described the presence of several ancient land slide scars in this area.

It is also pertinent to mention here that the project was allotted to the IPP through international competitive bidding by the H.P.Govt. with the project proposal on the right bank, as per the pre-feasibility report of the project.

5 DETAILED ASSESSMENT OF THE PROJECT LAYOUT ON BOTH BANKS

The version of the IPP regarding Major draw bank for keeping the Power House & HRT on Right bank as briefed in their letter and as per supplied layout plan is not correct as the location of Power House and HRT on Right bank has been finalised by the HPSEB after detailed studies by the Planning & design Engineers in consultation with Geologist from G.S.I. Further it is pertinent to mention here that although the length of Roads and nos of bridges on the right bank proposal are more but simultaneously the

length of HRT and const. adits is comparatively less which is added advantage since const. of HRT and adits is higher being underground and hazardous Job as compare to that of road and bridges. Besides, the involvement of cultivated land required on right bank is very less as compared to left bank. Moreover, re-habitation on the left bank is much more than that on the right bank which it self is problematic during const. stage as various problems like drying up of water sources etc. will crop-up which will be very difficult to mitigate.

6.0 CONCERN OF VILLAGERS

The proposal of Right bank has been finalised by the HPSEBL keeping in view the concern of villagers as briefed in Para-4 above.

7.00 CONCLUSION

In view of above stated facts HPSEBL has considered right bank of the river Ravi best suited for construction of the project taking into consideration of all the aspects necessitated for economical and social consideration. As such there seems *that* no aspects substantiated to shift the project to left bank as proposed by the IPP by quoting various self vested reasons/grounds please.

Yours faithfully,

ok
me
Chief Engineer(I&P)
HPSEBL, Sundernagar.

Copy forwarded for information please:-

1. The Sr. P.S. to Director (Projects), HPSEBL, Shimla-4 for kind appraisal of worthy Director (Projects).
2. The Chief Engineer(PCA), HPSEBL, Shimla-4 w.r.to his office letter No. HPSEB/CE(PCA) PSP-Misc/10-3435-36 dated 24.8.2010.
3. The Superintending Engineer, Planning Circle No.-I, HPSEBL, Sundernagar.

ok
Chief Engineer(I&P)
HPSEBL, Sundernagar.