Water Availability for 1320MW Thermal Power Plant, Mirzapur

Introduction-

Welspun Energy UP Pvt. Ltd (WEUPPL) is putting up 1320MW Thermal Power Plant in Dadri Khurd, Mirzapur District, UP. The plant is located in the vicinity of the Upper Khajuri Dam and is at 6.86Kms distance. The River Ganga is located at a distance of 24.0kms from the plant.

Preliminary Water Availability Study-

- In order to fulfil the water requirement of Power Plant, Preliminary Water Availability Study was carried out by M/s WAPCOS.
- The objective of the study was to identify the reliable water source for the said project of 36MCM requirement.
- After due diligence and meetings with the Irrigation dept. UP at Mirzapur and Varanasi and concern field officials, the relevant data were collected regarding the probable water sources & existing dams.
- The site visit was done by M/s Wapcos and the findings of the study are listed below-
  1. River Sone and River Ganga was studied for the source of water.
  2. Bansagar Dam is near completion on river Sone and the water will be made available to some reservoirs & irrigation purpose of Mirzapur district. There is no possibility of water allocation for the Thermal Power Plant.
  3. River Ganga identified as the source of water for Thermal Power Plant.
  4. Major earthen dams in the Mirzapur district were considered for the study like Sirsi Dam, Meja Dam, Dekhwa Dam, Upper Khajuri Dam & Jergo Dam.
  5. Upper Khajuri Dam was then identified as the storage for water.
  6. The proposal was submitted to UP Irrigation and CWC and the in-principle clearance was conveyed by the committee.

- Approval for withdraw of water from river Ganga and storing in the Upper Khajuri Dam was conveyed by UP Irrigation dept. wide letter dated 09.09.2011 (Annexure-A) and Govt. Of India CWC wide letter dated 12.10.2011 (Annexure-B).

Draft Water Use Agreement between UP Irrigation & Welspun Energy (Annexure-C) -

- Water use agreement was in-principle signed between Irrigation dept. Govt. Of UP and Welspun Energy which states that ‘WEUPPL has proposed to use of Upper Khajuri Dam for storing water for meeting the project’s requirement and as well as to provide storage of 9.5Million Cubic Meter (MCM) per year of water for meeting the irrigation requirement of GoUP during the lean season when no pumping is allowed from the River Ganga and GoUP has accepted the proposed scheme for mutual benefit and agreed that Water abstraction
scheme shall be developed by WEUPPL considering pumping of additional quantum of water for Irrigation Department."

- Thus the water requirement for both, proposed WEUPPL project and irrigation for the lean period can be fulfilled by pumping of water from River Ganga and storing it in Upper Khajuri Dam and the local villagers can be benefited by the approved scheme.
- The condition is put forth by UP Irrigation dept. keeping in view the shortage of water for irrigation during lean season and the un-utilized capacity of the Upper Khajuri Dam.
- The water shall be withdrawn only during monsoon season for the period 1st June to 31st December.
- The pumping station along with the De-silting chamber shall be installed at the Ganges to minimize the siltation of Upper Khajuri Dam and improve the quality of the withdrawn water.
- Another pumping station shall be installed in the vicinity of Upper Khajuri Dam to supply the water to the Power project site.

Upper Khajuri Dam & its Utilization -

- The construction of upper Khajuri Dam was started in the year 1957 and completed in 1962. The dam is situated in village-Kotwa, Tehsil- Sadar, District- Mirzapur in the state of Uttar Pradesh with the estimated cost for this project at 1956 prices was Rs. 8.665 Lacs.
- The Dam is constructed across river Chaudari and Sibatal. The dam was built to supply water for irrigation purposes and store the excess water drained during rainy season.
- The dam is an earthen embankment and composed of the materials i.e. compacted earth and pitched with stone on the water side. The stone filling has also been provided at the toe on the downstream side.
- The dam consists of two feeder canals, right and left. Right Canal is 3.2 KM long and has one minor known as Majhwari Minor. The Left canal is 11.3 KM long and has two minor known as Haraura Minor and Bahuti Minor.
- The length of dam is 2.313 KM, the maximum height of dam is 24.084 M and the top width is 7.62 M. The dam has 11 gates for releasing of water.
- The live storage capacity of Upper Khajuri Dam is 42.28 MCM.
- Power Plant and Irrigation requirement of water during lean season is 18 MCM +9.5 MCM= 27.5 MCM.
- Considering 20% for loses due to evaporation, water requirement is 33 MCM.
- It will be ensured that water of 33 MCM shall be stored in the Upper Khajuri Dam by 31st December of every year to cater the requirement for the lean season.
- Thus, the water requirement for both power plant and irrigation during lean period can be fulfilled by utilizing the Upper Khajuri Dam.
ANNEXURE-A

लेख-3.21.3/11-27-सिरो-4-174(हड़) / 11

प्रेषण,
जनविलास,
संयुक्त सचिव,
उतर प्रदेश शासन!

राय में,

प्रस्तुत अभिव्यक्ति,
विचार विभाग, 2020,
जाननक।

विचार अभिव्यक्ति-4
संजय विनायक नाथ, 2011
विषय-रूप संदर्भ के जनपद निर्माण में प्रस्तावित 1320 मेला/आयाम की
सार्थक विद्युत परिसरों में देणा 36 एनएसडी एजन्ट ओप्शन योजना कार्यों के संबंध में।

गत्रीजन,
उपर्युक्त विचार विभाग मुजफ्फर अभिव्यक्ति (अते संसदीय) वार्ता में प्रस्तुत अभिव्यक्ति,
विचार विभाग, 2020 के पूर्व संचित-235/अभिव्यक्ति-8/परो-6/
(पी-20)विनायक 05.09.11 से संदर्भ में मुझे यह चलने का लाभ हुआ है कि जेनो वेस्टवर्ल्ड के जनपद निर्माण में प्रस्तावित 1320 मेला/आयाम की सार्थक विद्युत परिसरों में देणा 36 एनएसडी एजन्ट ओप्शन योजना कार्यों के संबंध के लिए हानिकारक विवेचन रूप से अर्थात विवेचन की जाती है।

(1) जेनो वेस्टवर्ल्ड के जनपद निर्माण में प्रस्तावित 1320 मेला/आयाम की सार्थक परिसरों में देणा 36 एनएसडी एजन्ट ओप्शन कार्यों के लिए यह आदर्शहृदय है कि अपने वनस्पति ज्ञानकोश का उपयोग करके परिपूर्ण प्रतिक्रिया के लिए उच्च प्राचीन स्थान पर संदर्भित प्राचीन संस्कृति का विकास किया जाए, जिसलिए गंगा बाँध का नाम सही ध्वनि भारत के उपनाम मुखे परिसरों के द्वारा अपने चापड़ी ज्ञानकोश में दाला जाए, जिसके ज्ञानकोश के अन्दर आरोपण इसका विकास की जाना जाए। इस पर होने वाला उपर्युक्त व्यावहारिक विकास कार्य की जितनी धारणा भारत वित्तपोषण में बढ़ने की धारणा है।

(2) गंगा बाँध के जनपद में, अपने प्रशासन संबंध नहीं जाना एवं अन्य वनस्पति बाँधों के साथ जीवन जीने वालों के पुनर्विकास में हेतु प्रस्तावित संगठन कार्य संस्थान द्वारा संपन्न संगठन पुनर्गठन परिक्रमा, पशुपतिनाथ एवं अनुसंधान व्यावसायिक परिवहन के द्वारा विकास वाला होगा।

(3) विचार विभाग के अवस्थापन संचित-295/11-27-सिरो-4-8(अते)/82, विचार 15-7-2011 के अनुसार अनुचित कार्य किया जाना जाएगा।

(4) उपर्युक्त परिसरों में देणा 36 एनएसडी एजन्ट ओप्शन कार्यों के संबंध में भारत सरकार के जन संयुक्त संस्थान, केंद्रीय जल आयोग एवं अन्य आवासियों की अनुपलब्ध इंजीनियरिंग विभाग प्राप्त की जाएगी।

अन्वित,
(वचन किराता )
संयुक्त सचिव।
संख्या एवं विषयक संदेश।
प्रतिलिपि विनियमित की लूटमार्ग एवं आवश्यक कार्यवाही वेतन प्रदेश–
1- सचिव, ऊर्जा विभाग, उत्तर प्रदेश शासन।
2- आयुक्त श्री प्रकाश श्रीराम, उत्तर प्रदेश पावर कार्यालय लि, श्रीगंगा शासन, अंतर्गत भारत, लखनऊ।
3- कड़ाप्रवत जलवायु फैलदार एवं शैक्षणिक विभाग लि, नई दिल्ली।
4- मुख्य अभियंता (प्रोजेक्ट) विभाग विभाग, उत्तरप्रदेश बालिका।

अधिक रूप से,

(श्री सिराज)
संयुक्त सचिव।

ANNEXURE-8
To
The Special Secretary
Government of Uttar Pradesh
U.P. Secretariat
Lucknow - 226001


Ref: Govt. of UP Lr. no. no. 3763/11-27-Sin-4-174(WP)/11 dated 16.09.2011.

Sir,

Please refer to Government of Uttar Pradesh letter under reference above vide which request for clearance for Water Allocation from River Ganga to M/s Weilsun Energy U.P. Pvt. Ltd. for 1320 MW Thermal Power Project at Mirzapur, Uttar Pradesh has been made. The proposal envisages storing water in Upper Khejuri Dam by pumping water from River Ganga to fulfill the requirement of proposed Thermal Power Plant.

The proposal has been examined and I am directed to convey the ‘No Objection’ of MoWR for allocation of 36 MCM of water for this project, to be withdrawn from River Ganga to M/s Weilsun Energy U.P. Pvt. Ltd. at Mirzapur, Uttar Pradesh subject to the following conditions:

1. At present, except for Sone basin and some project - specific agreement, there is no agreement for sharing of Ganga water between co-basin States. Hence in future, if any agreement is reached for sharing of water of River Ganga, the consumptive use for this project would be counted against the share of U.P.

2. The Government of Uttar Pradesh shall ensure that there is no withdrawal of water from Ganga River during the lean season (1st January to 31st May) and there is sufficient storage available in Upper Khejuri Dam for the monsoon water to be stored for utilization during the lean season by proposed Thermal Power Project at Mirzapur.

3. Government of U.P shall ensure that during the lean season, the releases downstream of the existing dam remain unaffected.

Yours faithfully,

Director, IP (N)

Copy to:
1. Sr. Jt. Commissioner – I (Ganga), Ministry of Water Resources, Block No. 11, 8th Floor, CGO Complex, Lodhi Road, New Delhi-110003 w.r.t MoWR letter no. 7/24/2010-Ganga/3821-23 dated 03.10.2011.

2. Shri M.S. Puri, Chief Engineer, TP & Div., Central Electricity Authority, 9th floor, Sewa Bhawan, R.K. Puram, New Delhi.