



BHAKRA BEAS MANAGEMENT BOARD (BBMB)

Invitation for Global Expression of Interest (EOI)

For

**“Design Fabrication & Installation of Log Boom at Pandoh Reservoir” Of Beas
Sutlej Link Project Sunder Nagar**

EOI Notice No. : BSL(P)/EOI/02/2019

Invited by :

Sr. Executive Engineer.

Elect. & Mech. Division, BSL (P)

BBMB, Pandoh

Board Office :

Secretary,
Bhakra Beas management Board
Sector 19-B, Madhya Marg
Chandigarh
Telephone No. : 0172-5011759

BSL Project Office :

Chief Engineer,
BSL Project, Bhakra Beas
Management Board,
Sundernagar – 175019
Distt.- Mandi (Himachal Pradesh)
Telephone No. – 01907-262333



BHAKRA BEAS MANAGEMENT BOARD

BSL Project, BBMB Pandoh
Distt.- Mandi (Himachal Pradesh)
Pin Code- 175124
Telephone No : 01905-282053
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E-mail : emdivpnd@gmail.com

Global Expression of Interest (EOI) Notice No. : BSLP)/EOI/02/2019

Bhakra Beas management Board, a trend setter Organisation in Water Resources and Power Sector under the Ministry of Power, Govt. of India invites Global Expression of Interest (EOI) from reputed and established Consultancy Firms/Individual Consultants meeting the evaluation criteria as detailed on BBMB website : www.bbmb.gov.in for shortlisting to participate in tender for “**Design Fabrication & Installation of Log Boom at Pandoh Reservoir**” Of Beas Sutlej Link Project Sunder Nagar”.

For Further details regarding location of work, scope of work and its Time schedule for completion etc. please visit the BBMB website.

Interested parties may submit their EOI with requisite details as per format/ details provided in the website up to 3:00 PM on 20 th Aug 2019 through Registered post/ Hand delivery in a sealed envelope super scribing the EOI reference no. : BSL (P)/EOI/02/2019 and Applicant name/Address on the envelope to :

Sr. Executive Engineer,
Elect. & Mech. Division, BSL (P)
BBMB, Pandoh -175124
Distt. – Mandi (Himachal Pradesh)
Contacts : Tel.: 01905-282053
E-mail : emdivpnd@gmail.com

Visit to the work site is a pre requisite for the interested parties before submission of the EOI. EOI of the participant without the site visit shall not be entertained. EOI submitted by the firms will not act as a binding on the department and can be rejected without assigning any reasons.



BHAKRA BEAS MANAGEMENT BOARD

GLOBAL EXPRESSION OF INTEREST (EOI)

“Design Fabrication & Installation of Log Boom at Pandoh Reservoir” Of Beas Sutlej Link Project Sunder Nagar.

General Description of BSL Project

The Beas Sutlej Link, which constitutes Unit I of the Beas Project, It comprises an earth-cum-rock-fill dam at Pandoh across River Beas, a spillway, a water conductor system to link River Beas with River Sutlej through two long tunnels ,a channel, and a power house at Slapper at the down-stream end of the system.

Pandoh Dam

Pandoh Dam is a diversion dam and is located 21 km from Mandi town (Himachal Pradesh) on the Mandi-Kulu road. It has a composite section of earth & rock fill. The dam is about 61 m (200 ft) high above the river bed level & 76 m (250 ft) above the deepest foundation level. The length of the dam at the crest is about 255 m (836 ft) with a crest width of 12.2 m (40 ft) .The purpose of Pandoh Dam is to divert the water of R-Beas into the 38 km long water conductor system for generation of electricity at Dehar power house Slapper, there after it meets River Sutlej after generation.

Pandoh Reservoir

The Pandoh reservoir has been formed due to construction of Pandoh Dam across R-Beas in a narrow streak of water along the valley. The reservoir extends to about 9.25 km upstream of Pandoh Dam and has a gross storage capacity of about 4100 hectare meter and its maximum EI 896.42 meter (2941 feet). The operating level of the Reservoirs is between EL 2918 ft. to 2938 ft.

Description of problem:

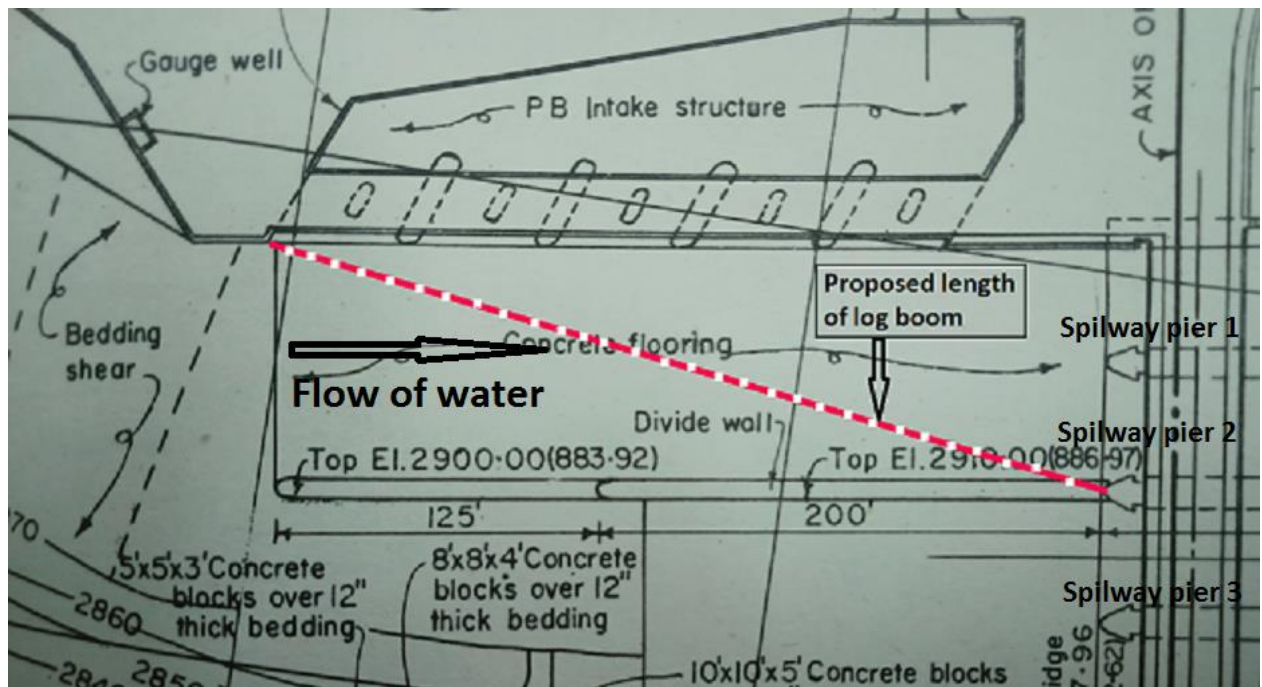
Every year during the monsoon season heavy trash which includes heavy tree logs and other floating trash including plastic materials etc. reaches Pandoh reservoir. The trash is restricted to enter the PBT (Pandoh Baggi Tunnel) through trash racks provided near the PBT intake structure. During cleaning of the trash racks the trash comes into the intake structure and lifted with the help of skip attached to Moto crane especially mounted on the PBT intake structure for this purpose. During the cleaning of the trash racks some of the trash including heaving logs and plastic materials enter into the water conductor system of PBT and causes great problem in silt ejector at Baggi and balancing reservoir at Sundernagar. The trash racks provided at SST (Sundernagar Sutlej tunnel) have to be cleaned to avoid choking and restrict the supply of water to SST.

To get rid of trash problem at Pandoh, it is necessary to divert the trash towards the spillway gates no. 3, 4 & 5 so that it may pass downstream during the operation of spillway gates. To divert this trash temporary floating drum type log boom in the Pandoh reservoir is installed every year before the monsoon season. If this floating trash is not diverted it will stuck to the trash racks installed in front of PBT intake due to suction effect of PBT and can create sudden differential between Pandoh reservoir level and PBT intake due to restricted water way through the trash racks. The persistent differential for

longer period is very dangerous and can cause the stoppage of water supply to the PBT and stop the function of whole project. As such the log boom plays a major role to prevent the trash near PBT intake structure.

➤ Scope of Work

- Design, Fabrication & Installation of Log Boom at Pandoh Reservoir to divert the trash and heavy logs towards spillway gates number 3, 4 & 5.
- Submission of detailed technical proposal material, equipment and methodology to be used.
- Techno-economically feasible and acceptable engineering solution to be given by the Firm.



Pandoh dam intake structure and proposed length of Log boom

➤ Technical Specification of Log Boom

- Log Boom may be able to Trap/ Divert Heavy logs and trash from River Beas at Pandoh Reservoir.
- The log boom should be able to sustain the Max. Velocity of water to the Tune of ± 20 ft/ sec.
- The log boom may be having a length of ± 120 metre with slider arrangement at both the ends due to frequent fluctuation of water level at Pandoh Reservoir.
- Log boom may be able to operate between the operating level of 2918 ft. to 2938 ft. during the lean period and up to minimum of 2910 ft. during flushing operation of Pandoh reservoir through slider at both ends
- The material to be used for the fabrication of log boom should be resistant to weather condition long lasting & rust proof.
- The anchoring arrangement should be such as to hold the weight of the whole log boom during flushing operation at Pandoh Reservoir.

➤ Evaluation Criteria

Consultants/Firms who fulfill the following criteria shall be considered for participation:

Technical Experience

The Consultant should have experience in similar field of the last 5 (Five) years to be reckoned from the last date of submission of EOI. Copies of the letter of intent (LOI) and Completion certificate issued by the appointing authority shall have to be submitted. Experience profile of

the Consultant/Firm shall be submitted with EOI in Form "A" (**Annexure - I**) along with relevant documents as proof of his experience of similar nature works.

Financial

- A) Annual Financial Turnover of the Consultancy Firms/Individual Consultants during any of preceding three financial /accounting years from the last date of submission of EOI should be submitted in Form "B" (**Annexure - II**). Annual average financial turnover of the Consultancy Firms/Individual Consultants shall not be less than Rs. 200 Lakh during the last three years.
- B) Net worth of the Consultancy Firms/Individual Consultants must be positive for preceding financial/accounting year.

Note:-

For proof of Annual Turnover & Net worth any one of the following documents must be submitted along with the bid:-

- A) Certificate issued by a practicing Chartered/ Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed.
or
Audited Balance Sheet along with Profit & Loss account.
- B) The Consultancy Firms/Individual Consultants should have PAN, GST Registration number and submit the copies of the relevant along with the EOI.

General Detail

The Consultancy Firms/Individual Consultants shall submit the complete detail of his Firm/Individual in the Form "C" (**annexure III**)

Form "A"

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Details of similar nature of assignment completed during the last five years to be reckoned from
the E.O.I publishing date

Sr. No.	Description	1	2	3
1	Name of assignment/Project and location.			
2	Name & Address of Employer/ Organization, Telephone No. of officer to whom reference may be made.			
3	Cost of consultancy charges in Rs Lakhs (Attach copy of letter of Intent and Performance Report)			
4	Date of commencement as per contract.			
5	Stipulated date of completion			
6	Actual date of completion			
7	Names of Project in charge & key staff & Nos. of staff involves.			
8	Completion Certificate issue by the appointing department/authority)			

FORM -'B'

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Audited annual turnover reports for last three (3) years

YEAR	GROSS TURNOVER (INR)	NET PROFIT (INR)
2016-17		
2017-18		
2018-19		

FORM - 'C'

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Detailed information of consultancy firms/individual consultants

1	Name & Address of the consultant with Telephone No./Fax No./Email ID	
2	Address of the local office, if any.	
2	Legal status of the applicant	
	a) A proprietary firm	
	b) A firm in partnership	
	c) A limited company or corporation/Joint venture/consortia	
4	Name of the owner(s)/CEO of the firm	
5	Name and designation of individual authorized to act for the organization.	
6	In which field of Consultancy the applicant has specialization.	
7	Any other information considered necessary but not included above.	