



**BHAKRA BEAS MANAGEMENT BOARD (BBMB)**

**Invitation for Expression of Interest (EOI)**

For

**“Fabrication of one set (9 Nos. ) of stop logs for Pandoh Dam Spillway”.**

EOI Notice No. : BSL(P)/EOI/ 03 /2021

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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**Expression of Interest (EOI) Notice No. : BSLP)/EOI/ 03/2021**

Bhakra Beas management Board, a trend setter Organization in Water Resources and Power Sector under the Ministry of Power, Govt. of India invites Expression of Interest (EOI) from reputed and established Firms/Individual manufactures meeting the fabrication criteria as detailed on BBMB website : [www.bbmb.gov.in](http://www.bbmb.gov.in) for shortlisting to participate in tender for **“Fabrication of one set (9 Nos. ) of Stop Logs for Pandoh Dam Spillway”**.

For Further details regarding fabrication of Stop logs 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 upto 3:00 PM on **31<sup>st</sup> Dec. 2021** through Registered post/ Hand delivery in a sealed envelope super scribing the EOI reference no. : BSL (P)/EOI/**03/2021** 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 : [xenmechpdh@bbmb.nic.in](mailto:xenmechpdh@bbmb.nic.in)**

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.

The documents so received will be opened on the same day at 3:30 PM in the Office of Sr. Executive Engineer, Elect. & Mech. Division, BBMB Pandoh in the presence of authorized representative of the Firm who actually submitted the EOIs. In case the date of opening of EOIs falls on a holiday subsequently declared on that date, the EOIs will be opened on next working day following the holiday .EOI documents received later than the date & time stipulated above shall not be accepted. ***Prospective parties against this EOI are also requested to regularly visit this website for updation.***



## BHAKRA BEAS MANAGEMENT BOARD

### EXPRESSION OF INTEREST (EOI)

#### **“Fabrication of one set (9 Nos. ) of stop logs for Pandoh Dam Spillway”.**

#### **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).

#### **1 Description of Stop Logs**

Pandoh Dam is major and vital component of BSL Project. This Dam is Diversion Dam. The Pandoh Dam level is maintained as per requirement of BCW, Sundernagar and the excess released from Pandoh Spillway through 5 Nos. Radial Gates. Every year 1 No. Radial Gate is being overhauled by Mechanical and Repair Sub Division BBMB Pandoh. To overhaul the Radial Gate, the reservoir water is stopped with the help of 9 Nos. Stop Logs.

The stop logs have been provided at the upstream of Spillway Bridge for closure of gates bay for inspection & maintenance & repair for the radial gates. To accommodate stop logs, grooves have been provided in all the piers and abutment at the upstream of Spillway Bridge. The clear opening of the bay is 12m (39.375 ft) and distance back to back of slots is 13m (42.65 ft). The sill is at EL 874.78m (2870 ft). The bearing frames and guides are made of structural steel and are embedded in concrete up to EL 896.72m (2942 ft). The seals seats are made of stainless steel.

A set of stop logs meant for closing one bay at a time, consist of 9 units. Three bottom units are of one type, three intermediate units of second type and three top units of third type. Each type is designed to withstand the corresponding worst loading on the units so that design computation are limited to three types only. Bottom unit are design for a water head of 22 mtr. (72.16 ft). Intermediate units for 16.5m (54.12 Ft) and top units for 9 mtr. (29.52 ft) only. The height of three type of stop logs unit has been so

kept that all units weigh nearly equal. Heights of bottoms, intermediate & top units are 1.80 mtr. (5.905 ft) , 2.9 m (8.2 ft) and 3 mtr.(9.84 ft) respectively. This division into 9 units have been made to facilitate handling/ transportation of stop logs of units by 47.5 Ton capacity cranes (available on the project) . These stop logs units are to be lowered/ raised under balanced at head conditions, created by closure of radial gates downstream of stop logs. However, the stop log units can be taken out against a differential head of 0.3048 mtr (1 Ft). Provision has also been made to use these stop logs at the mouth of Pandoh Baggi tunnel after certain modification.

### **Salient Features of Stop Logs:-**

#### **Detail of 1set of stop logs**

<b>Sr. No.</b>	<b>Length</b>	<b>Width</b>	<b>Height</b>	<b>Qty (No.)</b>	<b>Weight (Ton)</b>
1	12.62(Mtr.)	1.26(Mtr.)	1.8(Mtr.)	3No's	18x3=54
2	12.62(Mtr.)	1.26(Mtr.)	2.5(Mtr.)	3No's	22.50x3=67.5
3	12.62(Mtr.)	1.26(Mtr.)	3.0(Mtr.)	3No's	21.25x3=63.75

**Total= 185.25 ton**

### **3. Scope of works:-**

1. "Fabrication of one set (9 Nos.) of stop logs for Pandoh Dam Spillway" as per actual Site condition & design drawing.
2. Submission of detailed techno economical proposal.
3. Interested parties are requested to visit the site for getting an on-site overview of the stop logs at Pandoh Dam. Required technical details & drawing for this purpose will be provided by the department.

**Evaluation Criteria:-** Firms who fulfill the following criteria shall be considered for participation.

**4 Area and location :-** Pandoh Dam is approximate 20 km from Mandi Distt. on Mandi - Kullu National Highway. The area is approachable from Chandigarh- Manali NH-21 and is well connected with main Town Mandi via Road /Air (Bhuntar - Kullu Airport).

#### ➤ **Technical Specification of Stop logs.**

The structural design of stop logs units, manufactured out of steel conforming IS: 226, is based upon the normal allowable units, stresses as per IS: 4622-1967.

The skin plate is welded with horizontal webs having welded flanges at their other ends. The depth of the horizontal webs has been restricted to 500 mm at the end, whereas at center it has been kept 1250mm. The section has been design against bending at the center and shear at the ends. Vertical stiffeners have also been provided for greater rigidity.

Thrust pads have been provide at the two ends of stop logs units to bear against the embedded frames, there by transferring the entire hydraulic load on the stop log units to the concrete.

The skin plate has been kept on the downstream side. Maximum weight of stop log unit is 22 Ton approx.

#### ➤ **Evaluation Criteria**

Manufacturer who fulfill the following criteria shall be considered for participation:

**Technical Experience**

The manufacturer 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 manufacturer firm 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 three 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 manufacturer firms should have PAN, GST Registration number and submit the copies of the relevant along with the EOI.

**General Detail**

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

## Form "A"

E.O.I Notice No. BSL(P)/EOI// 03/2021

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 manufacturing 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)
2018-19		
2019-20		
2020-21		

**FORM - 'C'**E.O.I Notice No : BSL(P)/EOI/ **03/2021**Detailed information of manufacturer

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.	