

DEPARTMENT OF CIVIL ENGINEERING
INDIAN INSTITUTE OF ENGINEERING SCIENCE AND TECHNOLOGY, SHIBPUR
P. O. Botanic Garden, Howrah, West Bengal-711103, India
Phone: 033-26684561 FAX: 033-26682916

Tender reference No: IESTS/CE/LOADING FRAME/GTE/2021-22/-01

Date: 03.01.2022

NOTICE INVITING TENDER

Sealed tenders are invited by the Civil Engineering Department, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-711103 for the supply of **Loading Frame** in Physical Modelling Laboratory, Department of Civil Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur.

Tender Documents containing details of the items and terms and conditions may be downloaded from the institute website and completed bidding documents are to be submitted to the **Head, Department of Civil Engineering, Indian Institute of Engineering Science and Technology, Shibpur; Howrah-711103** or dropped into the Tender Box kept in the Department **within January 18, 2021 (4:00 pm)**.

For further clarification, please contact Dr. Ambarish Ghosh (9831286527).

Enclosed: **Section- I: General Conditions and Important Instructions for Bidders.**

Section-II: Detailed Specification of the Loading Frame.

Head
Department of Civil Engineering
IEST, Shibpur

SECTION-I: General Conditions and Important Instructions for Bidders

1. Interested parties/vendors are to download the tender documents with detailed specifications from the institute website (www.iiests.ac.in)
2. It is necessary to submit the original tender documents along with technical and price bids to the **Office, Department of Civil Engineering, Indian Institute of Engineering Science and Technology (IEST), Shibpur; Howrah-711103.**
3. Bidders are to abide by the terms and condition and submit this tender document in original duly signed with acceptance of the terms and conditions.
4. Last date of receipt of tender is **January 18, 2021 (4:00 pm)**. Tenders received late will not be accepted under any circumstances. Tenders will be opened in the Department of Civil Engineering, on the same day at 4:00 pm. In case the Institute remains closed on the said date, tenders will be opened on next working day at 4:00 pm.
5. The Price Bid should clearly mention the price including the following:
 - Delivery charges up to Physical Modelling Laboratory, Department of Civil Engineering, IEST, Shibpur, Howrah, including loading and unloading charges.
 - All taxes, duties, levies applicable.
 - Erection, Commissioning and testing charges at Physical Modelling Laboratory, Department of Civil Engineering, IEST, Shibpur site
6. DGS&D rate contract price will be preferred wherever applicable. The Institute will not issue any C or D form availing for concessional Sales Tax/ VAT. The Institute will issue Customs Duty Exemption Certificate or Excise Duty Exemption Certificate for foreign purchase, if required.
7. The equipment/goods are to be supplied at the Physical Modelling Laboratory, Department of Civil Engineering, Indian Institute of Engineering Science and Technology between 11.00 am and 4.00 pm from Monday to Friday except holidays. The bidders will be responsible for any breakage, damage or defect in the equipment detected subsequently.
8. Period of delivery of equipment/ execution of work should be within two week from the date of issue of Purchase Order. If the supply/execution is not completed within the stipulated period as indicated in the Purchase Order a Liquidated Damage @0.5% per week will be imposed on the value of purchase order.
9. GST as per rule.
10. Bills in triplicate should be presented for payment within 7 days of supply/ commissioning of work. No advance is paid for execution of the order. The Order No. is to be noted on both Challan and Bill. All bills are to be accompanied by order copies and Challan receipt.
11. Payment will be made on submission of Proper Bills, Challans etc, by A/C Payee Cheque and no cash payment will be made under any circumstances.
12. All payments are subjected to statutory deductions as and when applicable.
13. Tender is to be kept valid for acceptance for 3 months with effect from the last date of issue of the tender without any modifications in its terms and conditions.
14. Documents mandatory to be submitted with the tender:
 - Tender Documents, General Conditions and Important Instruction in original duly signed by the Proprietor/ Partner/ Director of the company as a token of acceptance of Terms and Conditions of Tender.
 - Latest Income Tax, Sales Tax, Professional Tax clearance certificates and copy of valid Trade License
 - Bid according to specifications.
 - Certificates and Literature in support of the item.
15. Authority reserves all rights to accept/reject any/all quotation without showing any reason.

I/We accept the above terms and conditions.

Signature of vendors with date & Seal

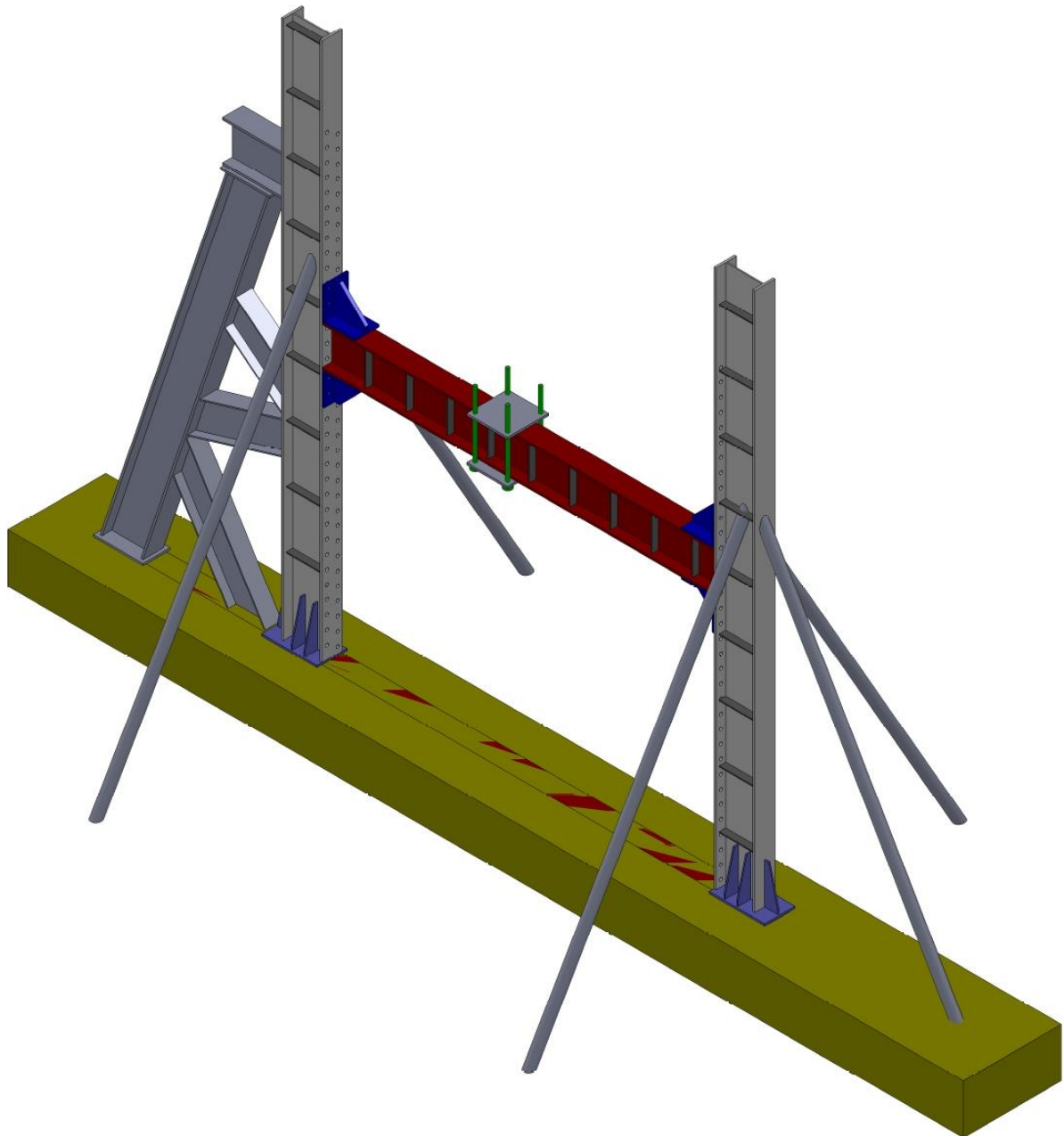
Section-II: Detailed Specification of the Loading Frame

1. The Loading Frame should include but not limited to all components as mentioned in Table 1 and as shown in Figure 1 and Figure 2.
2. All the Structural members of specified sections mentioned in Sl. No. 1 a) to l) of Table 1 should conform to IS: 226, IS: 808 & SP (6)- 1964.
3. The items mentioned in Sl. No. 2 of Table 1 should conform to IS: 3757 for bolts, IS 6623 for nuts and IS 6649 for washer of Undrako make or similar.
4. The items mentioned in Sl. No. 3 of Table 1 should conform to ASTM A193/grade B7 of Undrako make or similar.
5. The Price Bid should include and clearly mention the price including the following:
 - Cost required for delivery, haulage including loading and unloading charges, hoisting, erecting and connecting all the Structural members of specified sections mentioned in Sl. No. 1 a) to l) of Table 1 to one another with bracket, gussets, cleats as per design, complete including cutting to requisite shape and length, fabrication with necessary bolting, metal arc welding conforming to IS: 816- 1969 & IS: 1995 using electrodes of approved make and brand conforming to IS:814-2004, all complete at Physical Modelling Laboratory, Department of Civil Engineering, IEST, Shibpur.
 - Cost required for procuring all Structural members of specified sections mentioned in Sl. No. 1 a) to l) of Table 1, consumables such as electrodes, gas and hire charge of all tools and plants and labour required for the work including all incidental charges such as electricity charges, labour insurance charges etc. all applicable.
 - All taxes, duties, levies as applicable.

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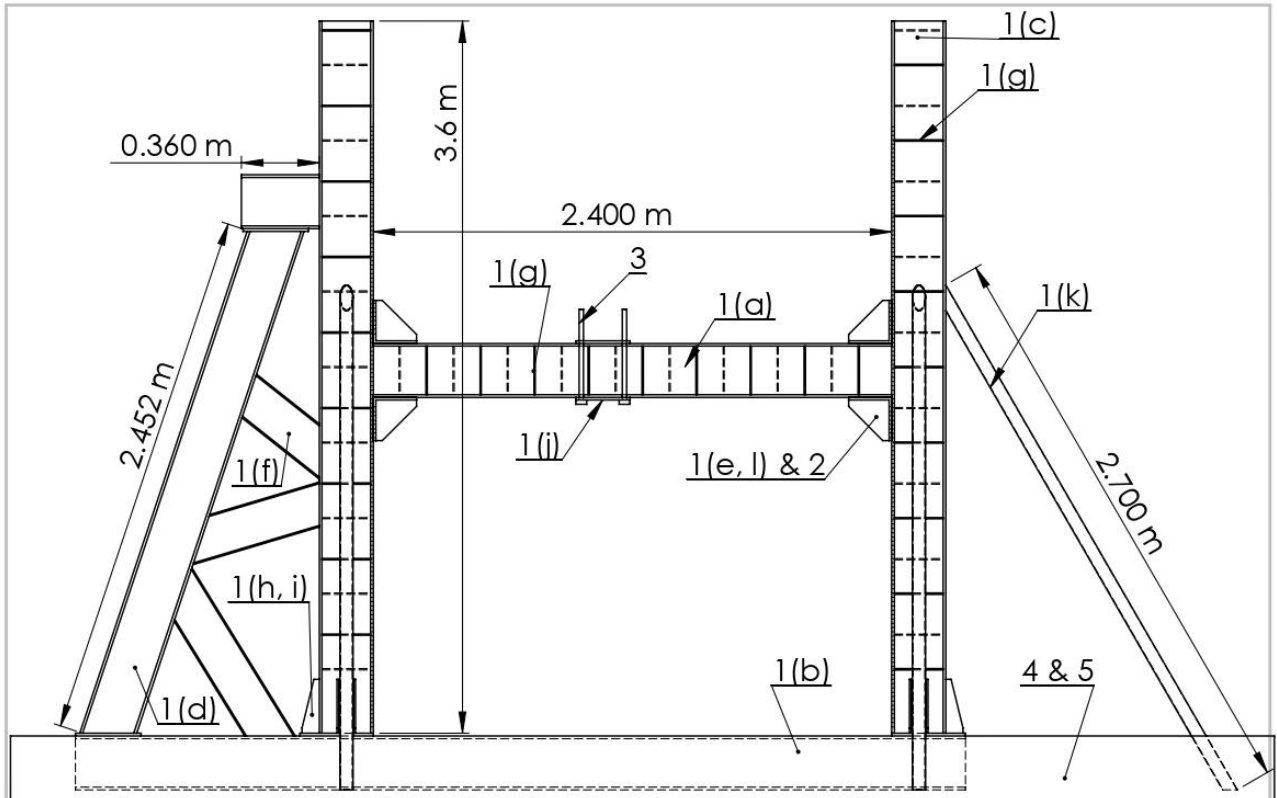
Table 1: Details of items of loading frame

Sl No	Description of items of work	Unit	Measurement of Quantity				
		Unit	No	L (m)	B (m)	H (m) or (kg/m ³)	Quantity
1	Structural members of specified sections						
a)	Top Horizontal Beam ISLB 300	kg	1.00	3.3			124.41
b)	Bottom Horizontal Members ISLB 225	kg	1.00	4.05			95.18
c)	Verical support column Members ISLB 300	kg	2.00	3.3			248.82
d)	Main inclined member for lateral load frame ISLB 200	kg	1.00	3			59.40
e)	Angles ISA 200200 12 mm (For end support of horizontal members 1a)	kg	4	0.15			21.96
f)	Smaller members of lateral load frame ISLB 125	kg	1	2			23.80
g)	Plates for stiffeners of Members to resist local buckling (0.006 m thickness)	kg	54	0.04	0.006	0.29	29.50
h)	Plates for bottom of column (0.01 m thickness)	kg	2	0.185	0.01	0.34	9.88
i)	Plates for stiffeners at the bottom of column (0.008 m thickness)	kg	10	0.08	0.008	0.25	12.56
j)	Plate for fixing hydraulic jack (Top and bottom)	kg	2	0.25	0.012	0.25	11.78
k)	Steel tubes for lateral support (OD 60.3 mm; Thickness 2.9 mm); Longer	kg	5	2.7			55.08
l)	Stiffeners plates for angles	kg	4	0.2	0.02	0.2	25.12
2	High strength structural Bolts with nuts and spring washer for fixing horizontal member to vertical column (M 20, length 7 cm)	each	16				
3	Stud Bolts with nut and spring washer for fixing hydraulic jack accepting frame (M16, Length 45 cm)	each	4				
4	Earth work in excavation of foundation	m ³	1.00	6	1	0.4	2.40
5	Concrete of M 25 Grade	m ³	1.00	6	1	0.15	0.90

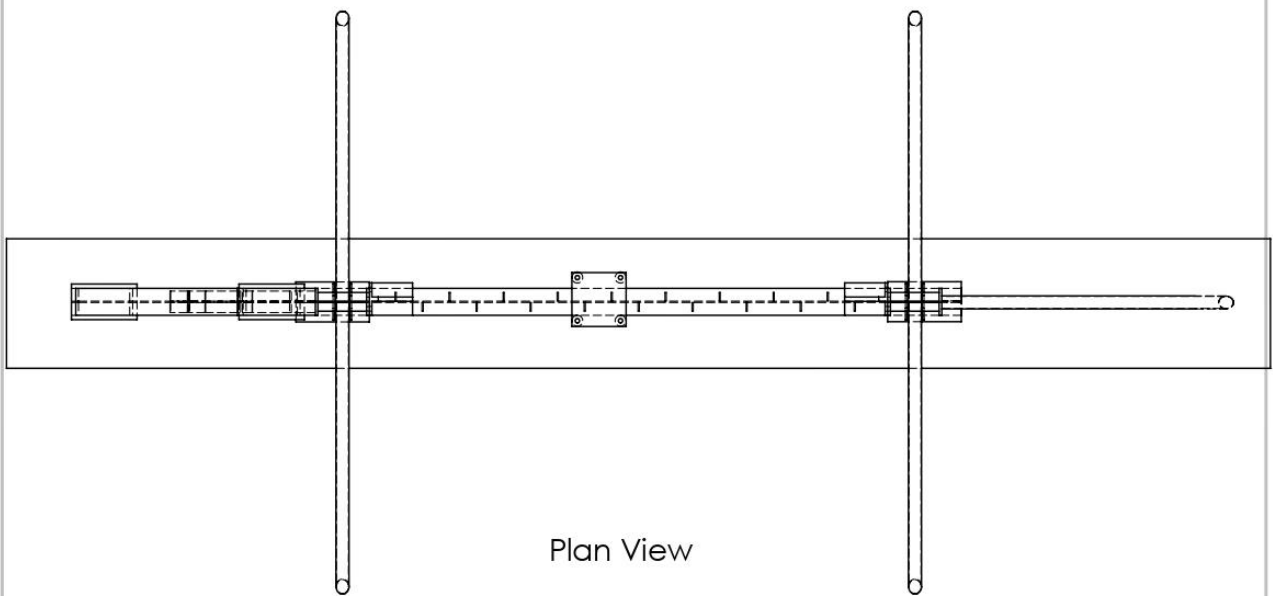


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBUR AND BREAK SHARP EDGES		IEST Shibpur Loading Frame for Physical Modelling Laboratory 10 MT lateral load 15 MT Vertical load
DRAWN	NAME	SIGNATURE	DATE		
CHK'D					
APPV'D					
MFG					
Q.A.				MATERIAL:	DWG NO. 1
				WEIGHT:	A4
				SCALE: 1:25	SHEET 1 OF 1

Figure 1. Isometric view of Loading Frame



Front View
 (Details of items are attached separately)



Plan View

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:	DEBUR AND BREAK SHARP EDGES		IEST Shibpur Loading Frame for Physical Modelling Laboratory 10 MT lateral load 15 MT Vertical load
DRAWN	NAME	SIGNATURE	DATE		
CHK'D					
APPV'D					
MFG					
Q.A.			MATERIAL:	DWG NO. 2	A4
			WEIGHT:	SCALE: 1:30	SHEET 1 OF 1

Figure 2. Front and Plan view of Loading Frame