

Purchase Specification for Chain Pulley Block 10T for
Palamuru Rangareddy LIS-I,Telangana

A. Specification for Chain Pulley Block –10T

1. Chain pulley Block shall, in general, confirm to **IS: 3832-2005**.
2. **Application:** For lifting workshop items, tools and R&M jobs of Pumping station.
3. **Description:** Main components of the chain pulley block should be of the following specification:
 - 3.i. **Hook:** Steel forgings to **IS: 15560-2005** to withstand shock loads. Should be designed to rotate and swivel freely.
 - 3.ii. **Load Chain:** Alloy Steel Link chain conforming to **IS: 3109-Part-2**.
 - 3.iii. **Load wheel:** Made of steel casting conforming to **IS: 3832**, suitably heat treated and mounted on Needle / Ball Bearings for smooth operations.
 - 3.iv. **Brake:** Screw & friction disc type, self-actuating load pressure brake ensuring safety.
 - 3.v. **Hand Chain:** Conforming to Gr. 30 of IS : 2429.
4. **Test:** Chain Pulley Block should conform to IS testing requirements. Chain pulley block is to be tested to 50% overload.
5. **Other details:**
 - 5.i. Capacity: **10 Tonnes**
 - 5.ii. Hook travel (lift): 20 (twenty) metres
 - 5.iii. Operating chain height from pulley centre line: 7 (seven) metres
6. Chain pulley block should be suitable for mounting on monorail trolley of I-Beam of size 300X140 (ISMB 300X140).

B. General clauses:

- a) **Packing:** All items are to be packed in wooden boxes to avoid damage during transit.
- b) **Test certificates:** 6 copies of test certificates consisting of material tests (gear & pinion, shank hook, load chain), ultrasonic test report, load chain TC, ratchet & pawl hardness test report, proof load test at vendors place from approved lab and conformation certificates of equipment as per IS.
- c) **Inspection:** The equipment will be inspected by **BHEL safety Division**. Minimum two weeks advance notice is to be given by the supplier.
- d) Two sets of catalogue to be submitted by supplier along with the offer, without which, the offer shall be considered incomplete.
- e) Six sets of catalogue and O&M instruction manual shall be furnished at the time of delivery.

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MODEL QUALITY ASSURANCE PLAN

PROJECT : Palamuru Rangareddy LIS I
NAME OF

CLIENT: BHEL
VENDOR :
NIT/P.O.
REFERENCE : -----

EQUIPMENT :10T Chain Pulley Block

SR. NO.	ITEM /COMPONENTS	CHARACTERISTICS CHECK	CAT.	TYPE/METHOD OF CHECKS	QUANTUM OF CHECKS	REFERENCE DOCUMENTS	ACCEPTANCE NORMS	RECORD FORMAT	INSPECTION AGENCY			REMARKS
									Perform	Witness	Verify	
	Raw Material or Bought out items											
1	Sheet steel,plates,section,eye bolts.	Surface Condition	MA	Visual	100%	-	Free from blinks,cracks,waviness	Logbook	3	-	-	-
		Dimension	MA	Measurement	Samples	Manfr's drawing/spec.	Manufacturing drawing	Logbook	3	-	-	-
		Proof load test (eye bolt)	MA	Mech. Test	Do	Do	Do	Inspection report	3	-	2	-
2	Hardwares	Surface Condition	MA	Visual	100%		Free from cracks, unevenness etc.	Do	3	-	-	
		Property Class	MA	Visual	Samples	Manfr's drawing/spec.	Relevant IES standard/spec.	Supplier TC and Log	3	-	2	Property class marking shall be checked by the vendor.
3	Casting	Surface Condition	MA	Visual	100%	-	Free from cracks, unevenness etc.	Logbook	3	-	2	-
		Chem. And phys. Property	MA	Chem. And mech test	1/Heat no.	Manfr's drawing/spec.	Relevant IES standard/spec.	Supplier TC	3	-	2	Heat No. shall be verified.
		Dimension	MA	Measurement	100%	Manfr's drawing	Manufacturing drawing	Logbook	3	-	2	-
4	Paint & Varnish	Make , shade , shelf life and type	MA	Visual	100% continuous	Manfr's drawing/spec.	Manufacturing drawing	Logbook	3	-	2	

Note: a. In Inspection Agency column figure 1,2,or 3 to be filled. 1- will indicate BHEL 2- will indicate supplier & 3- will indicate sub-supplier

b. In Remarks column following abbreviations shall be used - RR-Review of Records, T.C. - Test Certificate Submission & CHP - Customer Hold Point.

c. Test certificates shall be submitted at the time of final inspection.

Signature
BHEL (QA & I DEPT.)

Signature & Seal
(VENDORS Q.C. DEPT. OR REPRESENTATIVE)