
 EPD - BANGALORE	Technical specification for power pack, Hydraulic cylinder and slat conveyor for 530 kN Tensile testing machine	SPECIFICATION NO. EP-WEX-TTM/2013-14
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Technical specification for power pack, Hydraulic cylinder and slat conveyor

Scope of work

a. Supply and fixing of Power pack

Sl No	Specification	Requirement
1	Purpose	To test disk insulators of 530 kN rating
	Scope of Supply	Complete hydraulic power pack equipment along with control panel for start stop of pumping units and Direction control valve operation
2	Tank Capacity	50 litres
3	Quantity	1 no
4	Pump type	Tandum pump
5	Max pressure	350 bar
6	Flow ratios of pumps	10 LPM & 1 LPM
7	Directional control Valve 230 V working	4/3 double solenoid ,spring centered- overlap
8	Check valve	Double pilot check to hold pressure in the cylinder
9	Manifold Block	High pressure low relief valve assembly
10	Pressure switch	For over load cut off
11	Control panel	For start stop of pumping units and Direction control valve operation for 1. Application of the desired load by pressing of button 2. Holding the load for predetermined time 3. Releasing of the load after the preset time automatically 4. Variable holding time adjustment
12	Motor	Suitable motor 3 ph, 415 volts 50 hz Make :
13	Motor make	Siemens/LT/Schneider/Kirloskar/CG/ABB
14	Make of hydraulic components	Rexroth / Yuken / Hydroline
15	Overall dimension	Bidders to specify

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b. Supply and fixing of Hydraulic cylinder


1. Operating pressure - 350 bar.
2. Stroke length – 500 mm
3. Piston dia – bidders to specify
4. Bore dia – bidders to specify
5. Cylinder length – 730mm
6. Mounting – Clevis

**c. Supply and fixing of Slat chain conveyor as per
Drawing no MN21038**

Sl No	Specification	Requirement
1	Purpose	To transport washed insulators of required quantity for application of designated tensile load
2	Scope of Supply	As per drawing no MN21038 . Supply and erection of Complete Slat (Top rubber lining) Chain Conveyor together with Sprockets, Structure, Guide on top (400mm wide) slat chain conveyor NOTE: 1. The existing drive and gearbox shall be retained 2. The existing belt conveyor shall be replaced with slat conveyor. 3. The supplied conveyor system shall match with the existing drive system.
3	Total load on the conveyor	500 kgs
4	Conveyor type	Chain
5	Width	300mm
6	Length	5080 mm (sprocket center to center)
7	Pitch	50.9 mm
8	Quantity	1 no


Note :

1. For load sensing load cell which is in the scope of BHEL, will be used
2. The vendors may visit BHEL works to understand the existing system

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Qualification criterion:

Sl. No	BHEL Standard Terms & Conditions	Supplier's confirmation Yes / No	If Yes , Documentary Evidence provided for Compliance
1	The vendor shall be an Original Equipment Manufacturer (OEM). Dealers have to submit authorisation certificate from OEM		
2	The vendor shall have qualified personnel, their own adequate manufacturing / integrating and testing facilities for the equipment offered.		
3	The vendor shall have proven track record for manufacturing, supplying and successful commissioning of Hydraulic machines in the last 2 years		
4	The vendor shall submit audited balance sheet or tax returns or profit loss account for the last 3 years		
5	The vendors should submit offer for all the three components a,b& c mentioned above. Offer in part will not be considered		

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