

Date: 11/11/2022

Clarification01

1. It is notified to all concerned parties that with reference to **Tender No. IITH/CE/SURIYAP/2022/O/T069** dated: 07/11/2022, some of the specifications are not visible clearly in the Tender document. So specifications are given again below.

Sr. No.	Description	Specification
A	1200 TON (min.) HYDRAULIC PRESS MACHINE	01 No
1	Bed Size	Minimum working area 1000 x 1000 mm
2	Day Light Area	2000 mm
3	RAM Stroke	400 mm (min.)
4	Four Post System	Minimum of 250 mm solid bars of EN 24 grade or better
5	Dimension	1600 x 1600 x 4000 mm or better
6	Weight	A minimum of 20 Ton (Approximately)
B	Hydraulic Power Pack	01 No.
1	Tank	1500 Ltrs
2	Motor ABB Make Flange Mounted III Phase 415V	20 HP
3	Polyhydron Make Piston Pump	48 LPM 315 Bar
4	Yuken Make Vane Pump	170 LPM 175 Bar
5	Bell Housing	HIC Make Compatible
6	Extension Bracket	HIC Make Compatible
7	Polyhydron / Yuken Make PCM (Pressure Control Module)	20-16 to Control Both Pumps
8	Return Line Filter	Hydroline / Hydac Make
9	Manifold Block	Machined blocks
10	Directional Control Valve	Yuken Make
11	Counter Balancing Valve	Yuken / Polyhydron Make
12	Pilot Operated Check Valve	Polyhydron Make
13	Pressure Switch	Polyhydron Make
14	Limit Switch	Jai Balaji Make
15	Suction Filter	Hydroline Make

16	Gear Coupling	M-38 + M-38 Compatible
17	Air Breather	Hydac Make
18	Oil Level Indicator	Hydac Make
19	Fittings	Gem Make
20	Piping	Gem Make

C	Hydraulic Main Cylinder (Minimum Specs)	01 No.
1	Cylinder's OD	1000 mm
2	Cylinder's ID	850 mm
3	Cylinder's Rod	850 mm
4	Cylinder's Stroke	400 mm
D	Electrical Control Panel: To Operate 20 HP Motor and Solenoid Operated Directional Control Valves. Fully Loaded with all requirements accordingly	01 No.
E	Accessories inbuilt in Power Pack: Double Bell-Housing, Double Gear Coupling, Double Oil Level Indicator, Air Breather, PressureGauge, Suction Filter etc of reputed make.	01 Set
F	Digital Automation: Mitsubishi Make PLC with HMI, Yuken Make Proportion Valve with Analog Card for Digitally Controlled Displacement and Load Should be able to take load and stroke data as a current / voltage output and import into an external DAQ unit (HBM, NI or similar) Sampling rate / data acquisition rate (A minimum rate of 500 Hz) A software interface should be provided to operate the equipment using a laptop or desktop computer. Alphanumeric display with backlite, displaying - Actual Load / Peak load, Rate of loading and Calculated load in N/mm ² (as soon as sample fails) shall be provided.	

G	<p>Other Features</p> <ul style="list-style-type: none"> • Machine should have groove and different locking position (at every 200 mm or so at the top 1 m) to accommodate various daylight height • Counterbalance valve shall be there at head lift cylinder for safety. • Emergency stop shall be provided at operator panel for safety. • Proportional valve or a better one for pressure control. • Rope switch at machine front side for safety. 	
----------	--	--

2. All other terms and conditions of the tender remain unchanged.