

**TECHNICAL SPECIFICATION FOR MECHANICAL PRESS 30 TON.**

Sr.No.	Requirment		Vendor Remarks / Confirmation
1	Mechanical Power Press capacity 30 Ton (as per agreed features and terms)	2 nos.	
2	Model (including all the agreed features)	To be informed by supplier.	
3	Catalogue - 2 Copies	To be supplied at the time of initial tender opening.	
4	Bed Size (F to B x R to L)	610 x 425 mm	
5	Top of Bed to Ram bottom (min. die ht.)	230 mm	
6	Top of Bed to Ram bottom (max. die ht.)	315 mm	
7	Stroke Adjustment	5 – 60 mm	
8	Floor to top of bed	800 mm	
9	Maximum dimensions of machine (LxBxH)	1000 x 1000 x 2200 mm	
10	Dia of Hole in ram for die clamping	44 mm	
11	Depth of Hole in ram for die clamping	50 mm	
12	Dia of Hole in centre of Bed	190 mm	
13	T-slots in Bed for clamping	2 nos. cross T slots suitable for 16 mm bolts	
14	Protection covers for flywheel, belts etc.	To be provided by supplier.	
15	No. of strokes / min.	60	
16	A.C. Motor Power	Minimum 3 HP - 1500 rpm	
17	Motor make	Crompton Greaves / Bharat Bijlee / ABB / Siemens	

1  
S. Kumar  
11.1.11  
(Surinder Kumar)

13/1/11  
1/1/11

13/1/11  
1/1/11

18	Foot-operated lever	To be provided by supplier.	
19	Machine should be capable of giving continuous strokes when the foot lever is kept pressed.	To be confirmed by supplier.	
20	Suitable lifting arrangement	To be provided for lifting and transportation.	
21	Standard Accessories (Part of machine)	Electric Motor, DOL starter, Vee-belts, Flexible pipe, Shot Lubrication device, Flywheel guard, Gear Guard, Ball screw Spanner.	
22	Machine frame	Should be robust enough to withstand any deflection or vibration.	
23	Foundation drawing for civil works	To be provided immediately after placement of Purchase Order.	
24	Machine Weight	To be informed by supplier.	
25	Power Supply	AC 3-Phase, 415V + 10%/-15%, 50	
26	Paint to prevent rusting and corrosion	Apple Green Colour (RAL 6011)	
27	Full and complete Warranty & Guarantee for trouble free operation from the date of	24 months from the date of commissioning.	
28	Pre-despatch inspection may be done by BHEL team at supplier's work for mutually agreed period to ensure specifications compliance and functioning of the machine.	The supplier to give prior notice sufficiently in advance (minimum 1 month from the date of despatch) for carrying out the pre-despatch inspection.	
29	Final acceptance shall be made by BHEL at its plant following successful commissioning which shall include prove-out of the complete equipment for load testing.	It shall be the responsibility of the supplier to arrange and provide all required items, tools & tackles as required for the commissioning of the machine including foundation bolts etc, sufficient electrical wiring (minimum 30 mtrs.) MCBDB with sockets & Plug and other connection accessories as required alongwith the machine. BHEL will provide power mains only. Any shortcoming in the functioning of the machine due to any reason shall be rectified by the supplier free of cost.	
30	Machine supply condition	Machine to be supplied in ready to operate condition.	
31	Packing	The machine shall be packed rigidly to avoid any transit damage.	

*[Signature]*  
11.1.11  
(Sunder Kumar)

*[Signature]*  
11.1.2011

*[Signature]*  
13/1/11  
(H. J. J.)

*[Signature]*  
13/1/11  
J. S. K.

32	Essential Spares (As applicable) :		
a	Lubrication unit with distributor	2 sets per machine	
b	Cam shaft and cam shaft bearing	2 sets per machine	
c	Brake Liner and Liner lock screws	2 sets each type per machine	
d	All springs used in machine	Complete 10 sets per machine	
e	Rolling Pin/Key	20 nos. per machine	
f	All V-belts used in machine	5 sets each type per machine	
g	Anti-friction bearings and Bush bearings	2 nos. each type per machine	
h	Flexible pipe	2 sets each type per machine	
i	DOL starter	4 No. per machine	
j	Contactors/Relays	5 No. each type per machine	
k	Selector Switch	5 No. each type per machine	
l	Limit switch/Proximity Switch	5 No. each type per machine	
m	MCB/MPCB	5 No. each type per machine	
n	HRC Fuses.	10 No. each type per machine	
o	Foot operated Switch	2 No. per machine	
p	Main AC Motor	1 No. per machine	
q	Push Button	5 No. each type per machine	
34	Standard Tool Kit suitable for the machine	2 sets per machine	
35	O&M Manual including the following	5 sets per machine	
	1. Assembly drawings of each sub-assembly of machine, part list marked as per assembly drawing.		
	2. Lubrication circuit diagram with bill of material.		
	3. Electrical circuit diagram.		
	4. Procedure of different adjustments in machine.		

#### Qualifying Conditions :

1. The supplier should be a Original Equipement manufacturer.
2. The supplier should have supplied atleast 2 presses for similar or bigger size in last three years. Details of supplies stating year of supply with vendor's address & contact details (Email & Phone no.'s)

*(Signature)*  
11.11.11  
(Surinder Kumar)  
Engineer, TTX

*(Signature)*  
11.01.11  
Harpreet Singh  
(Engineer - TTX) - BL-37

*(Signature)*  
13/11/11  
H. Das  
AGM TUM (Govt. & NTS)

*(Signature)*  
12.01.11  
P.C. SINHA  
Sr. Egr. (WEX)