

SECTION III**ANNEXURE-A****FORMAT FOR SUBMISSION OF TECHNICAL BID**

1. (a) We, M/s.----- offer our ----- machine, model no -----as per the description given in Schedule of Requirements.
- (b) We state that, except for the following, for which clause wise brief description and justification for deviation has been indicated, our machine fully complies with all the clauses as given in technical specification Section-II.
- (c) We also confirm all the schedules given in the Delivery Schedule at Clause 7 of Section-I.

S. No.	Clause/Item	Brief description of Deviation	Justification for deviation

Note1: In case there is a contradiction in any information provided (some parametric values given in the specification and those given in the brochure or some other document enclosed by the tenderer), unless specifically mentioned in the deviation cum confirmation statement under Annexure A of Section III, the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly

Note2: In case tenderer offers internationally accepted alternative specifications as per clause 1.7, complete details of alternative specification, apart from filling above deviation statement, may be enclosed


2. We further certify that we are meeting the reference clause as,
- (A) We are the regular manufacturer of this type of machine. *(Attached duly filled and signed Annexure '1' and Annexure '2' given in Special conditions of Tender)*
- (B) We have an established Quality Assurance Plan to ensure quality of the offered product. *(Attach copy of Quality Assurance Plan as per Annexure 'H' of Section III of Technical Specification)*
- (C) We are an ISO certified company. *(Attach copy of ISO Certificate)*
- (D) We have made the following past supplies of similar machines in accordance with Clause 2 & Clause 3 of special conditions of tender during last 10 years:

S. No.	Name of the Purchaser with Address	Purchaser's Phone, Email Address, Name of the contact person	Purchase/ Supply Order number and date (along with a copy of the PO)	Quantity Supplied (with proof of supply) @	Date of Supply (@)	Date of Installation and/ or Commissioning @	Leading Parameter(s) of the Machine to establish similarity as per clause 3, of Special Conditions of Tender

@ (along with copies of relevant documents to establish linkages of documents/ entities as detailed in clause 5 of Qualifying Requirements)


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(E) We are submitting following performance certificate from past users as per clause 4 of Special Conditions of tender:

S. No.	Name of the Purchaser with Address	Purchase/ Supply Order number and date (along with a copy of the PO) (It should be the one(s) which are enlisted at clause 2D above)	Quantity Supplied	Date of Supply	Date of Installation and/ Or Commissioning	Date of issue Of Performance Certificate	Performance Certificate as per Annexure – '3' of Special conditions of Tender

3. We are having following facilities available with us or our agent for providing adequate after- sales service in India during warranty period. Complete details of after sales service, availability of technically competent engineers and warehousing facilities for spares is indicated below:

- After sales service centers:
- Availability of technically competent engineers;
- Warehousing facilities for spares:

4. We have quoted for the following optional accessories as indicated under clause 4.3 of Section I.

Sr No.	Description of the optional accessory	Quantity (in Nos.)	Rate	Indigenous	Shelf Life (in Months)

5. We have quoted for following recommended perishable and non-perishable spares required for normal maintenance to cover complete range of mechanical, hydraulic and electrical equipment's including controls on double shift working basis:

Perishable Spares

Sr No.	Description of the spares	Part number	Quantity (In Nos.)	Rate	Shelf Life (in Months)

Non perishable spares

Sr No.	Description of the spares	Part number	Quantity (In Nos.)	Rate

6. *We hereby confirm that we are the OEM and undertake to supply spare parts for a period of expected life of machine.

OR

*We hereby confirm that we are not the OEM, but are submitting undertaking from OEM for supply of spare parts for a period of expected life of the machine to provide maintenance spares (as and when ordered) after the expiry of the Warranty/CAMC for 5 years (life of machine - 20yrs) including the maintenance spares required for the

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bought out sub-assemblies and parts.

(*Strike out whichever is not applicable)

7. We have quoted consumables required as per clause 6.1 of Section II, in the format give below.

Sr No.	Description of the consumable spares	Qty.	Unit	Rate

8. It is certified that we are having suitable facilities at our works for carrying out various performance tests on the sub-assembly/assembly/machine and these shall be made available to the inspecting authority.

9. **BOUGHT OUT ITEMS:** We hereby furnish a list of all critical items/ sub-assemblies which are bought out by us and proposed to be used, along with the manufacturer's name, brand model etc.

Sr No.	Description	Item no.1	Item no. 2	Item no. 3
1.	Brief description of item			
2.	Model no.			
3.	Make			
4.	Quantity/machine			
5.	Manufacturer's name and complete address			
6.	Whether imported or indigenous			
7.	Country of origin			

10. We have quoted for Comprehensive Annual Maintenance Contract as per clause 17 of Section II. The preventive maintenance schedule and scope of work given in Annexure – 'J' of Section III is _____ (Acceptable / Not Acceptable) to us.

- 10.1 Breakup of rates quoted for 5 years CAMC is as follows.

Year of CAMC Period	Basic Cost	GST @ 18%	Total Cost incl. GST
1 st			
2 nd			
3 rd			
4 th			
5 th			

11. We further submit the following information about the offered machine as per the technical specification given in Section II and Important Features of the tender given in Section I. We understand that any omission of any of the below mentioned information will render our offer incomplete to that extent.

Clause No.	Item Description	As specified	Value/ Write up/ Brochure (As offered)
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2.2	Leading parameters		
2.2.1	Major parameters: (Note: No deviation in major parameter shall be accepted.)		Value/ Write up/ Brochure (As offered)
1.1	Type of press	Open front "C" frame vertical type, Downward Pressing	Write up
1.2	Capacity of press	20 Tonnes (minimum) on Each Cylinder	Value
1.3	No. of Hydraulic Cylinders and type	a) 02 Nos. Double Acting Hydraulic Cylinders, each capable of generating 20 tonnes (minimum) force, for performing operation given in clause C of this specification. b) Both cylinders shall be capable of independent and synchronized operation.	Value/ Write up/
2.2.2	Other parameters		
2.2.2.1	Working table size (L x W x H)	a) Two Tables of Size 2800 x 2000 x 420 mm (for placing on both sides of the press) b) One Table of Size 2800 x 490 x 420 mm (For placing directly below the RAM cylinder) c) Working table shall be designed in three parts as mentioned above and alignment of all three parts should be done in a manner such that when ICF bogie is placed on the table for pressing operation, it should not wiggle.	Value/ Write up
2.2.2.2	Stroke (adjustable)	300 mm (minimum)	Value/ Write up
2.2.2.3	Daylight	860 mm (minimum)	Value/ Write up
2.2.2.4	Ram speed	a) Approach Speed = 50 mm/sec (minimum) b) Working Speed during pressing = 5 mm/sec (minimum) c) Return speed = 40 mm/sec	Value/ Write up
2.2.2.5	RAM and Plunger Finish	Precision Ground and Hard Chrome Plated	Value/ Write up
2.2.2.6	Motor Power	10 HP (minimum)	Value/ Write up
2.2.2.7	Geometrical accuracies of the press	As per IS: 14877 (Pt. I) : 2000 Grade 2	Value/ Write up
2.2.2.8	Power supply	415V+10% -20%, 50Hz. +/-3%	Value/ Write up
2.2.2.9	Hydraulic oil tank capacity	150 Liters (Approx.)	Value/ Write up


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2.2.2.10	Two nos. separate earth pits shall be provided and connected.				Write up																				
2.2.3	<table><tr><th colspan="2">Parameters of Bogie without Wheel Sets</th><th>ICF AC</th><th>ICF Non-AC</th></tr><tr><td>2.2.3.1</td><td>Length (mm)</td><td>4360</td><td>4360</td></tr><tr><td>2.2.3.2</td><td>Width (mm)</td><td>2660</td><td>2660</td></tr><tr><td>2.2.3.3</td><td>Uncompressed Height (Bolster resting on Coil Spring without any fastening) (mm)</td><td>820</td><td>800</td></tr><tr><td>2.2.3.4</td><td>Weight of Bogie W/o Wheel Sets (Kg)</td><td>4000</td><td>4000</td></tr></table>				Parameters of Bogie without Wheel Sets		ICF AC	ICF Non-AC	2.2.3.1	Length (mm)	4360	4360	2.2.3.2	Width (mm)	2660	2660	2.2.3.3	Uncompressed Height (Bolster resting on Coil Spring without any fastening) (mm)	820	800	2.2.3.4	Weight of Bogie W/o Wheel Sets (Kg)	4000	4000	Value/ Write up
	Parameters of Bogie without Wheel Sets		ICF AC	ICF Non-AC																					
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Note	(a) A layout drawing of the existing machine installed at Izzatnagar Workshop is attached with this specification. Tenderers are required to visit the workshop to take all necessary measurements of the existing machine installed at Izzatnagar workshop, acquaint themselves with the working conditions and work to be done by the machine. (b) Tenderers are required to submit Detailed GA drawings including drawings of sub-assemblies e.g., hydraulic cylinder, etc., along with Hydraulic Circuit Diagram and Electrical Circuit Diagram for approval by consignee. Machine shall be designed and manufactured as per approved GA drawing only.				Value/ Write up																				
2.	Technical Details/Particulars of Motors, Control Gears, Voltage Stabilizer & Isolation Transformer																								
2.1	<u>A.C. Motors and Control Gears</u> AC MOTOR <ul style="list-style-type: none">➤ Manufacturer's Name➤ Type of enclosure➤ Type of duty (Ref. IS: 325) (Latest)➤ Rating-Continuous/intermittent➤ Output (KW/BHP)➤ AC voltage across phases, number of phases & frequency.➤ Speed in RPM➤ Class of insulation➤ Normal full load current➤ Starting current➤ Maximum current at the time of change over from lower speed to higher speed➤ Type of motor-Squirrel cage/slipring (wound rotor)➤ Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree C.➤ Frame size of motor➤ End use of motor				Value/ Write up/ Brochure (As offered)																				

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	CONTROL GEARS <ul style="list-style-type: none"> ➤ Manufacturer's Name ➤ Type of control gear (Direct on line/Star Delta/Auto-transformer etc.) ➤ Rating of starting gear in KW & amps. ➤ Short circuit protection (y/n) ➤ No volt trip (y/n) ➤ Overload trip (y/n) ➤ Delayed action current sensitive single phasing preventer (y/n) ➤ Standard specifications to which the motor control gear and its ancillary offered conform to 	
2.2	<u>D.C. Motors and Control Gears</u> DC MOTOR <ul style="list-style-type: none"> ➤ Manufacturer's Name ➤ Type of enclosure ➤ Type of duty (Ref. IS: 4722) (Latest) ➤ Rating-Continuous/intermittent ➤ Output (KW/BHP) ➤ DC voltage across phases, number of phases & frequency ➤ Method of excitation whether shunt, series, compound or separately excited, if separately excited state excitation voltage. ➤ Speed in RPM ➤ Class of insulation ➤ Normal full load current in amps ➤ Starting current ➤ Temperature rise of windings and other parts allowed above an ambient temperature of 50 degree Celcius ➤ Frame size of motor ➤ End use of motor CONTROL GEARS <ul style="list-style-type: none"> ➤ Manufacturer's Name ➤ Type of control gear (Direct on line/Resistance type/Thyristor type) ➤ Rating of starting gear in KW & amps ➤ Short circuit protection (Y/N) ➤ No volt trip (y/n) ➤ Overload trip (y/n) ➤ Standard specifications to which the motor control gear and its ancillary offered conform to ➤ Standard specification to which control gear conforms to 	Value/ Write up/ Brochure (As offered)
2.3	<u>Voltage Stabilizer & Ultra Isolation Transformer</u> VOLTAGE STABILIZER <ul style="list-style-type: none"> ➤ Manufacturer's Name ➤ Type of voltage stabilizer : 	Value/ Write up/ Brochure (As offered)

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	<ul style="list-style-type: none"> a) DC servo motor type b) AC servo motor type c) Solid state ➤ Rated capacity in KVA ➤ Nos. of phases & frequency ➤ Type of input supply unbalanced ➤ Input voltage ➤ Output voltage ➤ Rate of correction ➤ Class of insulation & winding (only copper wound is acceptable) ➤ Type of control circuitry ➤ Class of duty ➤ Type of cooling ➤ Indicating instruments and their ranges ➤ Safety features <p>ULTRA ISOLATION TRANSFORMER</p> <ul style="list-style-type: none"> ➤ Manufacturer's Name ➤ Rated capacity ➤ Ratio of input/output voltage ➤ Class of insulation ➤ Arrangement for suppression of power line surges, spikes, transients and noises. ➤ Type for cooling 		
3.	First fill of oils and lubricants - (Quantity of each item shall be indicated in the bid).	4.1.1 (i) of section I	Value/ Write up
4.	Maintenance tools (Make, description & Qty. to be furnished)	4.1.1 (ii) of section I	Value/ Write up
5.	Flexible four core copper cable with armored conduit from main switch to Isolation transformer, Isolation transformer to voltage stabilizer & voltage stabilizer to machine on-off switch of machine's panel.	4.1.1 (v) of section I	Value/ Write up
6.	Necessary tools and fixtures capable of carrying out the required operations on ICF Bogie. Qty. 2 Sets	4.1.1 (vi) of section I	Value/ Write up
7.	Any other accessory/ equipment, which the manufacturer considers essential to make the machine operational, when installed and commissioned connected to power source and give the specified output/productivity.	4.1.1 (vii) of section I	Value/ Write up
8.	Details of the safety features shall be furnished in the bid.	1.1.2 of section II	Value/ Write up
9.	The detailed design calculations for the suitability of the critical sections or the FEM analysis should be furnished in the bid. Value of deflection at full rated capacity shall be indicated in the bid along with calculations. A cross-sectional drawing	1.2.2.1 of section II	Value/ Write up

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	shall be submitted clearly showing the various stiffeners provided for structural strength.		
10.	A dimensioned cross sectional drawing of the tool bolster shall be submitted with the bid.	1.2.2.2 of section II	Value/ Write up
11.	Value of deflection at full rated capacity shall be indicated in the bid along with calculations. A cross-sectional drawing shall be submitted clearly showing the various stiffeners provided for structural strength.	1.2.2.1 of section II	Value/ Write up
12.	The method of checking weld defects and the method of stress relieving shall be explained in the bid. The detailed design calculations for the suitability of the critical sections or the FEM analysis should be furnished in the bid. Value of deflection at full rated capacity shall be indicated in the bid along with calculations. A cross-sectional drawing shall be submitted clearly showing the various stiffeners provided for structural strength.	1.2.2.1 of section II	Value/ Write up
13.	The Design philosophy of Main Ram & parameter selected such as material, type of construction & wall thickness etc. should be explained in the bid .	1.2.2.3 (i) of section II	Value/ Write up
14.	The average life of the proposed material shall be indicated in the offer.	1.2.2.3 (iii) of section II	Value/ Write up
15.	Material specification and surface finish of the liners shall be indicated in the bid	1.2.2.3 (iv) of section II	Value/ Write up
16.	Material specification, actual hardness, surface finish and thickness of chrome plating of the ram cylinder shall be indicated in the bid.	1.2.2.3 (v) of section II	Value/ Write up
17.	Frictional losses in the hydraulic circuit as well as in the RAM cylinder assemblies shall be explained in the offer. Design calculation for motor horse power, speed, pump capacity and motor power shall also be explained in the offer.	1.2.2.3 (vi) of section II	Value/ Write up
18.	The RAM end shall carry ram block/moving platen forged out of highly wear resistant alloy steel, and tenderers shall indicate the material to be used.	1.2.2.3 (vii) of section II	Value/ Write up
19.	The method of coupling the moving platen to the ram end shall be explained with the help of drawings in the offer.	1.2.2.3 (vii) of section II	Value/ Write up
20.	The ram-cylinder assemblies shall be provided with suitable arrangement such as slide rods to prevent ram rotation during ram working. The arrangement shall be explained in the offer.	1.2.2.3 (viii) of section II	Value/ Write up
21.	The hydraulic system shall be of modular construction (with logic control valves/ solenoid valves), The drive of the press shall be through hydraulic pumps. details of which shall be given in the offer.	1.3.1 of section II	Value/ Write up
22.	Particulars of the hydraulic fluid used shall be indicated in the offer. The successful bidder shall be required to indicate reputed Indian source of supply for the hydraulic fluid. The first fill of the hydraulic fluid shall form a part of the supply as concomitant accessory.	1.3.3 of section II	Value/ Write up

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23.	Adequate number of filters (for full capacity of pressurized oil) shall be placed in between the circuit and the pump, having filtering capacity of 25 microns or better. The filters shall be replaceable type. The type, make and model no. of each filter element shall be clearly indicated in the offer. A return line filter of 25 microns or better shall be provided. The type, make and model no. of each filter element shall be clearly indicated in the offer.	1.3.5 of section II	Value/ Write up
24	The filtering system shall be provided with a by-pass valve which shall operate in case of clogged filters. The filters shall have a clogging indicator. Details of the clogging indicator shall be furnished in the bid.	1.3.6 of section II	Value/ Write up
25.	Arrangement shall be explained in the bid. Heat load calculations and the details of heat exchanger system should be furnished.	1.3.7 of section II	Value/ Write up
26.	Cold drawn seamless steel pipes capable of withstanding high hydraulic pressure (150% of the maximum hydraulic pressure) conforming to DIN 2391/C shall be used in the hydraulic circuit. Pipe fittings shall be Ermeto type, vibration proof. The steel tubes shall be suitably coated for corrosion prevention. The Hydraulic Pipe joints should be TIG welded with all joints RT tested to ensure no failure of same during operation at site over the life of machine. The arrangement provided shall be explained in the offer.	1.3.11 of section II	Value/ Write up
27.	The successful tenderer shall provide the first filling of hydraulic oil, the cost of which shall form part of the basic price of the press. Tenderers shall indicate the exact grade of oil used and equivalent oils available in India that are suitable for use.	1.3.12 of section II	Value/ Write up
28.	The tenderer shall submit with the offer a diagram of the hydraulic circuit incorporated in the press giving full details such as size of lines, cut-off pressure, type, model number and make of: (i) Hydraulic elements (ii) Hydraulic motor (iii) Pumps, etc. The logic diagram for sequence of operations must be supplied. Each element in the diagram shall be suitably numbered. The elements on the press shall be correspondingly labeled prominently for the convenience of the operating and maintenance staff.	1.3.13 of section II	Value/ Write up
29.	The hydraulic system shall be provided with double safety pressure relief valves. The first setting shall be at the maximum working pressure, while the second setting shall be at a pressure 4 to 5% higher than the maximum working	1.3.16 of section II	Value/ Write up

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	pressure. In the eventuality of failure of the first system, the second system shall take over immediately, disconnect the pump output to the cylinder and allow discharge to the hydraulic tank. The system so designed shall be explained in the offer with a line diagram of the hydraulic circuit. The names of individual hydraulic element shall be indicated in the bid.		
30.	The hydraulic circuit shall be designed for minimum wastage of energy and shall not generate avoidable heat. The offer shall clearly explain how this efficiency would be achieved.	1.3.17 of Section II	Value/ Write up
31	The ram speeds shall be adjustable and the control shall be possible through flow control valve. Arrangement provided shall be explained in the bid.	1.3.21 of Section II	Value/ Write up
32.	Decompression arrangement shall be provided to release pressure on top position and prevent downward creep. The device shall be explained in the offer.	1.3.22 of Section II	Value/ Write up
33.	A safety device shall be provided to retain the moving head in the top position and prevent downward creep. The device shall be explained in the bid.	1.3.23 of Section II	Value/ Write up
34.	(a) Operation of the press shall be through Solenoid Operated Directional Controlled Valves. (b) Both cylinders shall be operatable and controllable independently and in synchronizing manner. The selector switches shall be provided to select the mode of operation i.e., Independent and Synchronizing Mode. (c) The machine shall have provision for light indicators for safety features like high oil temperature, low oil level, clogged filter, heat exchanger not working etc. Detail of above provisions shall be furnished in Bid and included in GA Drawing by successful Bidder.	1.4.1 of Section II	Value/ Write up


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35.	Pressure gauge calibrated to indicate working pressure as well as total ram force being applied when the press is working, shall be provided for the ram at a suitable location so that it is easily visible to the operator. Least count for force and pressure on the gauge shall also be indicated in the offer. The gauge shall have a range of minimum 25% beyond the rated capacity.	1.4.4 of Section II	Value/ Write up
36.	The press shall be provided with an automatic adjustable centralised pressure oil lubrication system to supply a measured quantity of lubricant to each lubrication point. The lubricating oil pump shall be independently driven and interlocked with the main drive so as to ensure pre-lubrication of the press. The lubrication system shall be explained in the bid with a lubrication circuit diagram. The make of the components in the circuit shall also be indicated in the bid.	1.5.1 of Section II	Value/ Write up
37.	One copy of the printed illustrative catalogue showing features of the machine and its elements must be enclosed with each copy of the bid.	4.1 of Section II	Value/ Write up
38.	The machine shall be inspected and tested during different stages of its manufacture starting from raw material till the completion of machine, by the purchaser or his authorized representative at the supplier's or his sub-supplier's works as per the Quality Assurance Program given in Annexure – 'H' of Section III. The bidder must submit the exhaustive QAP incorporating the tests as given in Annexure - H along with other tests /stage inspection as followed by them.	9.1 of Section II	Value/ Write up
39.	Sample Inspection Chart for inspecting the equipment shall be supplied along with the bid. The inspection chart should indicate all the tests that are carried out during the machine manufacture and also the tests to be offered to inspecting agency. The standard to which this inspection chart conforms should be clearly indicated. Against each test, acceptable limit/ range of values shall be indicated.	9.4 of Section II	Value/ Write up
40.	The Bidder shall offer their comments against each clause of Technical Specification.	Section I & II of Technical Specification	Value/ Write up


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Dy. Chief Mech. Engineer (Plant)

पुंउ००१० थॉ० कोरखानी, इज्जतनगर

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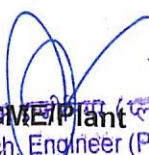
41.	Misc.	Value/ Write up
	1 Maximum working pressure kg./sq. cm.	
	2 Oil tank capacity ltrs.	
	3 Capacity of each pump lit./min.	
	4 Motor power kW	
	5 Overall dimensions of the equipment...mm x mm x mm	
	6 Approximate weight of press kg	
	7 Following drawings should be submitted along with the bid:	
	a) General arrangement drawing	
	b) Cylinder-ram assembly cross sectional drawings	
	c) Hydraulic circuit & piping diagram	

Signature of the authorized representative
of the bidder with company stamp




SSE/M&P


SSE/PM


Dy. Chief Mech. Engineer (Plant)
पुणे येथील कारखाना, इज्जतनगर
N.E. Ry. Mech. W/Shop. Izatnagar

AWM-II

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