

S.No.	Items (as per specification)	Quantity	Country of origin	Quoted/Not quoted	Currency , Price , FOB / FOR	Price in words
1	Horizontal construction, oil hydraulic direct drive, direct extrusion type Extrusion press with complete hydraulic, mechanical, electrical and electronics.	1				
2	Container housing (holder)	1			Include in 1	
3	Tool head for housing the die assembly.	1			Include in 1	
4	Hot saw cutter for cutting discard	1			Include in 1	
5	Run out table	1 set			Include in 1	
6	Mechanized tube / blank & rod grabbing system	1			Include in 1	
7	Automated system for die , discard and dummy block removal, transfer, separation and recirculation as per tender specification.	1			Include in 1	
8	Dummy block loading system to load the dummy block beside the hot billet	1			Include in 1	
9	Automatic mandrel cooling system	1			Include in 1	
10	Automatic lubrication system for	1			Include in 1	

	lubrication of container liner ID and mandrel							
11	Complete oil hydraulic system for the Extrusion Press and it's auxiliary units as per the scope in the tender.	1 set					Include in 1	
12	Special tools and tackles for operation and maintenance	2 sets					Include in 1	
13	<p>i. 10 nos. dies for O.D 50 mm x W.T 8 mm blank production.</p> <p>ii. 30 nos. dies for O.D 63 mm x W.T 11mm blank production.</p> <p>iii. 20 nos. dies for Ø 24 mm rod production.</p> <p>iv. 5 nos. mandrels for O.D 50 mm x W.T 8 mm blank production.</p> <p>v. 20 nos. mandrel for O.D 63 mm x W.T 11 mm blank production.</p> <p>vi. 1 no. hollow stem for O.D 50 mm x W.T 8 mm and 2 no. hollow stem for O.D 63 mm x W.T 11 mm blank production.</p>							

	<p>vii. 2 nos. solid stems for Ø 24 mm rod production.</p> <p>viii. 3nos. mandrel holders for O.D 63 mm x W.T 11 mm and 1 no. mandrel holder for O.D 50 mm x W.T 8 mm blank production.</p> <p>ix. 2 nos. Guide pipes for O.D 50 mm x W.T 8 mm blank production.</p> <p>x. 3 nos. guide pipes for O.D 63 mm x W.T 11 mm blank production.</p> <p>xi. 3 nos. guide pipes for Ø 24 mm rod production.</p> <p>xii. 2 complete sets of die holder, die backer and die bolster unit for O.D 50 mm x W.T 8 mm blank production.</p> <p>xiii. 3 complete sets of die holder, die backer and die bolster unit for O.D 63 mm x W.T 11 mm blank production.</p>					
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	<p>xiv. 3 complete sets of die holder, die backer and die bolster unit for Ø 24 mm rod production.</p> <p>xv. 5 nos. dummy blocks for O.D 50 mm x W.T 8 mm blank production.</p> <p>xvi. 15 nos. dummy block for O.D 63 mm x W.T 11 mm blank production.</p> <p>xvii. 15 nos. dummy block for Ø 24 mm rod production.</p> <p>xviii. 3 sets of threepiece design containers for the specified input billet dimensions and output extruded products. These containers shall be provided with easy fixing and removing system and suitable induction / resistance heating system for heating up to 350°C +/- 10°C. All the three containers shall be fitted with the liner of 150 mm inner diameter as per the specification.</p> <p>xix. 10 nos. hot saw blades.</p>			
14	Glassing carriage as per specification to transfer hot billet to the billet trays	1		Include in 1

15	Billet trays for placing hot billet along with the dummy block into the extrusion press axis as per the specification.	1				Include in 1	
16	Operator control console	1 set					
17	Acceptable Indian Supplies a) Foundation accessories. b) Operating and maintenance platform and its support structure. c) Cross over and ladder / staircase. d) Electrical and Instrumentation control panels including components, SCADA, cables, earthing materials etc. e) Electric motors. f) Motor control centers (HT & LT MCC). g) Tanks . h) Pumps skids. i) Operator control console / (Acceptable makes: Rittal / President). j) Floor plates. k) UPS l) Complete Exhaust System. m) Glassing Carriage (Hot billet receiving carriage) with transfer system. n) Billet trays. o) Run-out table including Puller (Grabber). p) Material for Erection including cables.	As per Specification					

	q) Scope and Services related to instrumentation as per document no. A367-020-16-51-SOW-4130 Rev.C (pg. no. 37 to 39 of 159) & document no. A367-020-16-51-SP-4130 Rev. D (pg. no. 40 to 49 of 159).									
18	Centralized lubrication system	1 set							Include in 1	
19	Supervision of Erection and Commissioning of all of the above items.									
20	Design & Engineering, supply, erection, testing and commissioning of entire hydraulic oil circuit piping (with necessary fittings) including bending, welding, laying, painting etc. as per site conditions, as per tender specification.								Price to be included in the base price of the respective equipment	
21	Container cleaning system as per tender specification.	1 set							Include in 1	
22	Mandatory Spares Mechanical									
	Main hydraulic pump.	1 no.								
	Sub-feeding pump (booster pump).	1 no.								
	Hydraulic seals of each type of hydraulic cylinders and pumps of the Extrusion press system. (List of the seals to be enclosed with technical offer)	1 set of each type								(with itemized price list to be attached with the bid separately)
23	Mandatory Spares Electrical									

	Power & Control fuses (each rating & type)	20% or one no.(min.) of each rating & type, whichever is more.				(with itemized price list to be attached with the bid separately)
	Servo valves each type	1 no.				
	Control Valves & coils each type & rating	1 no.				
	Direction control valve	10% or 1 no. whichever is more				
24	Mandatory Spares Instrumentation Ingot temperature measurement transducer, ram speed measuring transducer, encoders, PLC CPU, DI module, DO module, AI module, Communication module, Proprietary electronic control cards (if any manufactured by OEM), AO module	1 no. of each type				(with itemized price list to be attached with the bid separately)
25	Sum 22+23+24					
26	Performance Guarantee Test					
27	“On-site” training at project site to Owner’s personnel for operation and maintenance.					
28	Training of Owner’s Five (5) Nos. personnel for operation & maintenance at manufacturer’s works, for Ten (10) working days					
29	Sum [(1 to 21) + (25 to 28)]					In figures
30	Recommended spares (Mechanical, Electrical and Instrumentation) for two (2) years’ normal operation and					In words

	<p>maintenance (with itemized price list to be attached with the price bid separately). The list of recommended spares shall also include the set of seals for each type of valve for the entire scope.</p>					
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- * Price of recommended spare will not be considered for price evaluation. It is mandatory to quote for all
- * Unpriced bid only shall be attached with the technical part.

* The un-priced bid is mandatory to be attached along with the technical offer, only Quoted / Not quoted and country of origin to be mentioned against the items . This is mandatory to be furnished along with the technical offer.

* Currency for point “17” is mandatory to be specified in the price bid and supply source (vendor’s) details to be specified in technical bid.

Authorized signatory with stamp and seal

Place :

Date :