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Specifications of a 20 Ton rated Bale Machine

No.	DESCRIPTION	Compliance (Yes / No)	Remarks
1.	Requirement: A machine capable of baling recyclable material (such as PET bottles, paper and polyethylene) into a bound bundle.		
2.	Company registration number of the supplier registered under The Companies Act (No. 7 of 2007)		
3.	Machine Make		
4.	Machine Model		
5.	Manufacturer		
6.	Country of origin		
7.	Country of manufacture		
8.	The machine, in its entirety, and all its subcomponents should be brand new (unused).		
9.	The hydraulic compression force should be at least 20 metric tons at the end point of piston operation.		
10.	The feed opening size should be at least 0.24m ³ .		
11.	The smallest bale size should not be less than 0.17 cubic meters.		
12.	The maximum achievable platen pressure should not be less than 2.5MPa at the end of the stroke.		
13.	Time taken for the full length of the stroke with no load		
14.	Platen size		
15.	Number of force settings for compaction (give force values)		
16.	Number of hydraulic rams		
17.	Pressure and flow rate capacity of the hydraulic pump		
18.	A mechanism or device should be present in the machine to easily remove baled material from the machine.		
19.	Brand and model code of the hydraulic pump		
20.	The hydraulic system should be driven by at least a 4 kW (5.5 horsepower) three-phase electric motor		
21.	Brand and model code of the electric motor		
22.	All parts of the machine mechanism and structure prone to corrosion or oxidation should be painted with corrosion-preventing metal primer and abrasion-resistant epoxy paint.		
23.	The hydraulic pump, Drive system and Electric motor should be covered by suitable safety guards to prevent accidents and prevent dust accumulation.		
Electrical installation and panel board			
24.	Total electrical power rating of the machine at full load running condition (please give data).		
25.	Electrical wiring and panel board should be assembled using appropriately rated and quality equipment and wires standardised by the SLS 733. Wire gauges and current rating of components should be chosen for the maximum measured starting current (RMS) multiplied by a safety factor of 1.4. All wiring and electrical installations should comply with BS 7671 and EN 60204-1, SLS 1426, and SLS 1525.		
26.	Submit a drawing of the electrical schematic of the control panel. Sufficient measures for overcurrent protection, overvoltage protection, under voltage protection, current leakage protection, and phase failure protection should be incorporated in the panel board using an MPCB and RCBO.		
27.	Power supply phase indicators (3) and a machine power-on indicator (1) should be provided on the control panel.		

28.	All electrical components should comply with IP54, and all electrical enclosures should comply with IP65.		
29.	A manual ON/OFF switch should be provided with MPCB (if not included with MPCB, a separate electromagnetically latching contactor switch should be provided in an IP54 or better enclosure. Please specify the brand name, model code and country of manufacture.)		
30.	MPCB (Motor Protection Circuit Breaker) should be provided for phase failure protection, unbalanced phase protection, phase sequence protection, overload protection and short circuit protection. 6.3A current rating, Adjustable thermal trip (overload) range 5-8A (motor circuit category braking capacity $\geq 10kA$). Should include manual switching (ON/OFF) with at least 12A contactor rating, with separate start and stop push buttons, and electromagnetically latching. Should be in an IP54 or better enclosure. Please specify the brand name, model number and country of manufacture.		
31.	All wires routed within the machine structure should be passed through suitable industrial-grade PVC conduits.		
32.	Panel board with operating switches should be mounted on a wall or on the machine structure following standard safety precautions.		
33.	An emergency stop switch should be provided at an easily accessible location on the machine.		
Alternative Designs			
34.	State whether the design of the machine submitted with this bid should be considered as an alternative design which can satisfy the listed requirement specifications above, but with different technical and design specifications. Any objections regarding the requirement specifications should be submitted to the relevant procurement entity at least 7 days before the closing date of the bid.		
Technical Literature			
35.	Documents of technical specifications, images, and design drawings of the machine should be submitted with the bid. The documents should specify all major dimensions, material types, fastening methods and component ratings. All technical literature should be from the original equipment manufacturer.		
Manuals			
36.	Operations and maintenance manuals should be supplied with the equipment. All literature should be in English and in printed (hard copy) form.		
Warranty			
37.	A minimum of a two-year warranty is required, including for Hydraulic oil seals, Bearings, Piston Rods, Piston Rings, Relays, Timers, Contactors, Transformers, and Limit Switches. Warranty-exempted parts and items should be clearly mentioned in the bidding document. Damages caused by heavy impact, misuse or due to forces of nature shall not be covered by the warranty. Warranty repairs should be provided on-site, free of charge. Submit a detailed warranty document stating the terms and coverage		
Demonstrating the qualifications of the supplier and the manufacturer			
38.	Clearly mention certifications obtained by the company (e.g. from ISO, CIDA, FMRC, IESL, etc.). Documentary evidence for the manufacturer's and supplier's past performance, experience, awards received, and any recommendations received from government		

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	institutions can be submitted to demonstrate the qualification of the supplier.		
Past performance of the supplier			
39.	Attach the client list of related machinery. Client contact information, machine type, capacity, number of units purchased and year of purchase should be mentioned in the list.		
Product certifications			
40.	Any certification confirming the performance capability, quality of materials/components, and durability reports/test reports of the quoted machine model obtained from a third-party testing agency will be considered in the technical evaluation. Such certificates should contain the model number and capacity specification of the machine.		
After-sales service			
41.	The supplier should submit a document declaring the capability and commitment of the company to come to an agreement to carry out after-sales services after the warranty period.		
42.	Give details of the free periodic services provided for the machine. Periodic maintenance services recommended by the manufacturer should be provided absolutely free by the supplier during the warranty period. Specify the number of services provided.		
43.	The supplier should furnish a letter guaranteeing the availability of spare parts for a period of ten years.		
Intellectual property			
44.	The bidder should furnish a letter stating that the supply of machinery as submitted in the bid does not violate any industrial designs or patents registered under the Intellectual Property Act no. 36 of 2003. Furthermore, if the bidder has obtained such registrations in accordance with the said Act, the registration dates and numbers should be clearly stated.		
Installation and testing			
45.	The cost of transportation to the installation site and the cost of installation on-site should be included in the bid price.		
46.	A three-phase electrical supply will be available in the installation location. Required wire length is given in the Price Schedule. Cost of labour and material for installation should be included in the bid price.		
47.	Power supply to the machine should be wired from the nearest distribution panel by the supplier according to prevailing industrial standards (providing necessary conduits, lugs, connectors, etc.). All wire routings done on the floor should be made underground. All wirings should be secured with industrial grade PVC conduits and with appropriate cement/masonry work to amend any damages caused to the walls or cement/concrete floor. Any specific civil works required for the installation should be carried out without additional charges.		
48.	The machine should be tested on site under full load capacity.		

Price Schedule (in Rupees)

1	2	3	4	5	6	7	8	9	10
Line-Item N°	Description of Goods	Country of Manufacture	Brand and model code	Warranty	Unit	Qty	Unit price	Price for Item (without VAT) = [7] x [8]	VAT (if applicable)
1.	20T Bale machine supplied according to the given specifications				Units	1			
2.	A long, strong, straight rod (needle) made of stainless steel used to pass twine/rope through the bale.				Units	1			
3.	Electrical cable wires for wiring from the main distribution board to the sub distribution board- 7/0.85 4.0 mm ² x4 core (for three phases, and neutral) Cu/PVC/PVC outdoor cable SLS733.		ACL /Kelani /Orange /Sierra		Meters	110m			
4.	2.5mm ² 7/0.67 single core Cu/PVC indoor cable (5 meters each for three phases, neutral & earth) for wiring from the sub distribution board to the machine. SLS733.				Meters	110m			
5.	Earth wire - 7/1.04 6.0mm ² single core Cu/PVC/PVC outdoor cable for wiring from the earth bus bar of the sub distribution panel to the earth rod. SLS733.		ACL /Kelani /Orange /Sierra		Meters	110m			
6.	Supply and fix an Earth pipe - 2" diameter 6' ft long, galvanised iron - Connect to earth wire from the sub distribution panel.				Unit	1			
7.	Construct a brick chamber with a cover slab for the earth electrode pit.				Units	1			
8.	PVC electrical conduits or PVC trucking to route the above wiring with necessary bends, clips, and fastening materials		Krypton /Polychrome		Meters	15			
9.	12A rated DOL switch with AC-3 duty contactors (if provided separately)				Units	1			
10.	4-pole isolator switch (16A rating)				Units	1			
11.	MPCB of thermal current rated in the range 6-10 A (adjustable) and breaking capacity 10 kA at 400 V				Units	1			

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Bid validity.....

Contact numbers

Signature of Bidder

Date

company seal: