Bidder should complete the "Compliance" column with Yes or No. Bids submitted without references to catalogues or data sheets will not be considered in the technical evaluation.

Specifications of 20T rated Bale Machine

No.	DESCRIPTION	Compliance		Remarks
		YES	NO	
1.	Requirement: A machining capable of baling recyclable material (such as PET bottles, thin metal cans, paper and polyethene) into a bound bundle.			
2.	Company registration number of 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.	Machine in its entirety and all sub components should be brand new (unused).			
9.	Hydraulic compression force should be not less than 20 metric tons at any point in operation.			
10.	Feed opening size should not be less than 800 mm in length and 400 mm in width.			
11.	Bale size should be not less than 0.28 cubic meters			
12.	Should capable of completing one baling cycle within 12 minutes at full load.			
13.	Should be capable of baling 150 kg of material in one cycle.			
14.	Number of force settings for compaction (give force values)			
15.	Number of hydraulic rams			
16.	Pressure and flow rate capacity of hydraulic pump			
17.	A mechanism or device should be present in the machine to easily remove baled material from the machine.			
18.	Brand and model code of pump			
19.	The hydraulic system should be driven by at least 4 kW (5.5 horsepower) three phase electric motor			
20.	Brand and model code of electric motor			
21.	All parts of machine mechanism and structure prone to corrosion or oxidation should be painted with corrosion preventing metal primer and abrasion resistant epoxy paint.			
22.	Allowable vibration limit (measured at any location on the machine): peak to peak amplitude (magnitude) of any vibration component should not exceed 2mm during steady state operation.			
23.	Hydraulic pump, Drive system and Electric motor should be covered by suitable safety guards to prevent accidents and to prevent dust accumulation.			
Electrical Installation and panel board				
24.	Total electrical power rating of the machine at full load running condition (please specify).			
25.	Electrical wiring and panel board should be assembled using appropriately rated and quality equipment and wires standardized by the SLS. Wire gauges and current rating of components should be chosen for maximum measured starting current (RMS) multiplied by a safety factor of 1.4			

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26.	Submit a drawing of electrical schematic of the control panel. Sufficient measures for over current protection, over voltage protection, under voltage protection, current leakage protection, and phase failure protection should be incorporated in the panel board.			
27.	Power supply phase indicators and a machine power on indicator should be provided on the control panel.			
28.	All electrical components and electrical enclosures should comply IP 65.			
29.	The control panel board should house an electrical contact switch in direct-on-line (DOL) mode to power on the motor.			
30.	All wires routed within in the machine structure should be passed through suitable industrial grade PVC conduits.			
31.	Panel board with operating switches should be mounted on a wall or on the machine structure following standard safety precautions.			
32.	An emergency stop switch should be provided on an easily accessible location on the machine.			
Alternative Designs				
33.	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 10 days prior to the closing date of the bid.			
Technical Literature				
34.	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 lecturer should be from the original equipment manufacturer.			
Manuals				
35.	Operations and maintenance manuals should be supplied with the equipment. All technical literature should be in English and User manual should be in both English and Sinhala language. Also, all documents should be submit in printed (hard copy) and computer readable (pdf) forms.			
Warranty				
36.	At least two year warranty is required, except for wear and tear items, damages caused by heavy impact, misuse and due to forces of nature. Warranty should be provided on site free of any charge. Submit a detailed warranty document stating the terms and coverage.			
Demonstrating the qualifications of the supplier and the manufacturer				
37.	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 form government institutions, can be submitted for further demonstrating the qualification of the supplier.			

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Past performance of the supplier				
38.	Attach clienteles of related machinery. Client contact information, machine type, capacity, number of units purchased and year of purchase should be mentioned in the list. (It will be considered favourably in the technical evaluation).			
Product certifications				
39.	Any certification confirming the performance capability, quality of materials and components, and durability testing obtained for the supplying machine (or for a similar machine provide client information) from a third party testing agency will be considered favourably in the technical evaluation. Such a certificate should contain the model number and capacity specification of the machine.			
After sale service				
40.	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.			
41.	Give details of 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.			
42.	Supplier should furnish a letter guaranteeing the availability of spare parts for a period ten years.			
Intellectual property				
43.	The bidder should furnish a letter stating that the supply of machinery according submitted 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 according to the said Act, the registration dates and numbers should be clearly stated.			
Installation and testing				
44.	Cost of transpiration to the installation site, and cost of installation on site should be included in the bid price.			
45.	Three phase electrical distribution panel will be available within 15 meters (of wire length) from the installation location. Cost of labour and material for installation should be included in the bid price.			
46.	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 wrings 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.			
47.	The machine should be tested on site under full load capacity.			