

**WEST CENTRAL RAILWAY**

Controller of stores  
Opp. Indira Market, Jabalpur

L. No. S-Hq/Laundry/M&P/WCR

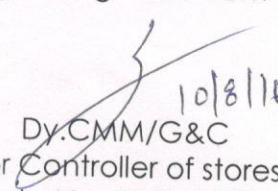
Date: 10.08.2016

Sub: Pre-bid meeting for installing of laundry plant at Bhopal.

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For purchase of laundry equipments at Bhopal pre-bid meeting called from prospective suppliers on 24.08.2016 at 11.00 hours in Dy. CMM/G&C chamber, Controller of stores office, west central Railway, Jabalpur.

Necessary technical specification enclosed as annexure "A" Interested suppliers are requested to participate in pre-bid meeting along with item wise compliance and deviations if any along with the suggestion.

  
10/8/16  
Dy. CMM/G&C  
For Controller of stores  
Mob. No. 9752415753

## Annexure-A

Sl.No.	Description	Qty/Set
1	Industrial washer cum extractor capacity – 100 to120 Kg	02 Nos.
2	Industrial washer cum extractor capacity – 50 to 60 Kg	01 No.
3	Tumbler Dryer Capacity- 50 - 60 Kgs	01 No.
4	Flat work Ironer (Calendaring machine) Capacity 800 x 3000 mm double roll	03 Nos.
5	Steam boiler (HSD fired) capacity minimum 850 kgs of steam/hr.	02 Nos.
6	Water feed pump Minimum 03 HP	02 Nos.
7	Air compressor of Minimum 03 HP	02 Nos.

01. Technical specification of Industrial washer cum extractor capacity 100-120 kgs.		
IA	Major Parameter	a) "G" Force at final extract: 300 G. (Minimum) b) Washing cycle – Desirable 45 minute but not more than 55 minute c) Inner/Outer drum:- Made of S S 304 d) Cabinet: Stainless Steel of S S 304 e) Auto dosing facility: Auto & Manual facilities should be available. f) Soap dispenser - 5 compartment (minimum) g) Capacity: Minimum 100 kg dry weight of 100% cotton per charge. h) Machines should be equipped with a separate overdrive panel with buttons for manual operation in case of PLC failure. i) Drum volume to weight ratio min 1:10 j) Machine should be soft mounted.
1B	Major Parameter Operation	a) The machine should be equipped two inlet facility – Hot water supply arrangement Normal water supply arrangement b) The machine should be equipped with Viton seal. c) All valves should be pneumatic controlled. d) The machine should be steam operated and have steam supply inlet e) Automatic mechanism to maintain set temperature by mixing hot and normal water supplies.
1.C	Minor Parameter	Programmable microprocessor controller with standard and custom base programming facility.



2.	<b>Technical specification of Industrial washer cum extractor capacity 50-60 kgs.</b>	
2A	Major Parameter	<p>i) "G" Force at final extract: 300 G. (Minimum)</p> <p>ii) Washing cycle – Desirable 45 minute but not more than 55 minute</p> <p>iii) Inner/Outer drum:- Made of S S 304</p> <p>iv) Cabinet: Stainless Steel 304</p> <p>v) Auto dogging facility: Auto &amp; Manual facilities should be available.</p> <p>vi) Soap dispenser - 5 compartment (minimum)</p> <p>vii) Capacity: Minimum 50 kg dry weight of 100% cotton per charge.</p> <p>viii) The machine should be equipped with separate over drive panel with buttons for manual operation in case of PLC failure</p> <p>ix) Drum volume to weight ratio min 1:10</p> <p>x) Machine should be soft mounted</p>
2B	Major Parameter Operation	<p>a) The machine should be equipped two inlet facility –</p> <ul style="list-style-type: none"> <li>• Hot water supply arrangement</li> <li>• Normal water supply arrangement</li> </ul> <p>b) The machine should be equipped with Viton seal.</p> <p>c) All valves should be pneumatic controlled.</p> <p>d) The machine should be steam operated and have steam supply inlet</p> <p>e) Automatic mechanism to maintain set temperature by mixing hot and normal water supplies.</p>
2C	Minor Parameter	Programmable microprocessor controller with standard and custom base programming facility.

3	<b>Technical specification of Tumbler drier</b>	
3A	Major Parameter	<p>a) Capacity: Minimum 50 kg dry weight of 100% cotton per charge.</p> <p>b) Inner &amp; outer cylinder &amp; body : made of SS 304 grade</p> <p>c) Drive motor: 1.1 KW (min), three phase</p> <p>d) Blower motor : 1.1 KW (min), three phase</p> <p>e) Operation : Steam operated</p> <p>f) Cycle: 50 kg (min) per cycle in maximum one hour.</p> <p>g) Programmable microprocessor controller</p> <p>h) Pneumatic valve for steam inlet</p> <p>i) Noise level: less than 85 db</p> <p>j) Double direction rotation – forward &amp; reverse</p> <p>k) Drum volume to weight ratio -1:20</p>

4	<b>Technical specification of Flat Work Ironer (Calendaring Machine)</b>	
4A	Major Parameter	<p>a) No. of Roll:- Two Nos. (Two Pass).</p> <p>b) Roller Speed: 5 to 25 meter per minute (Maximum)</p>

		<p>variable speed.</p> <p>c) Roller length : minimum 3000 mm</p> <p>d) Roller Dia: 800 mm</p> <p>e) Evaporation rate: Min (170 kg/hr)</p> <p>f) Finger safety guard: Auto cut off by swing guard for false feeding &amp; finger safety.</p> <p>g) Moisture suction blower to be available in each roller.</p> <p>h) Power of operation : Three phase</p> <p>i) Ironing Roller: made of carbon steel with hard chrome plating.</p> <p>j) Front feed and rear return</p> <p>k) Vibration/noise level: Less than 70 db</p>
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<b>5</b>	<b>Technical specification of Steam Boiler (HSD Fired) Capacity 850 kg of steam/hour.</b>	
5A	Major Parameter	<p>a) Fuel: HSD</p> <p>b) Steam output: 850 kg per hr (Minimum)</p> <p>c) Steam pressure: 10 kg per cm<sup>2</sup> ( minimum)</p> <p>d) Boiler: Vertical coil type</p> <p>e) Thermal efficiency: 85% (minimum)</p> <p>f) Diesel storage tank: 800 ltrs (minimum)</p> <p>g) Soft water storage tank – 2000 ltrs (minimum).</p> <p>h) M.S. Chimney: Required height connected to MS exhaust duct of the boiler.</p> <p>i) Outer body: Insulated, top plate with ceramic wool refractory, Air pre-heater, Vent for de-aerated gases.</p> <p>j) Boiler should be compatible for interconnection with another boiler of similar capacity.</p>
5B	Minor Parameter	<p>Compatible with water softener with Braine tank.</p> <p>Necessary water softener plant with Braine tank of adequate capacity will be supplied and installed by the contractor at their own cost.</p>

<b>6</b>	<b>Technical specification of Water Feed Pumps.</b>	
6A	Major Parameter	<p>a) Head : Min 30 mtrs</p> <p>b) Motor capacity : 03 HP min.</p>
6B	Purpose	<p>Capable of charging soft water at high pressure along with plumbing/pipeline etc.</p>

<b>7</b>	<b>Technical specification of Air compressor.</b>	
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7A	Major Parameter	<ol style="list-style-type: none"><li>1. Motor power – 3 H.P (Minimum).</li><li>2. CFM – 13.5 -14</li><li>3. Free delivery – 8.0 to 8.5 bar</li><li>4. Max.pressure-7 bar</li></ol>
7B	Minor Parameter	<ol style="list-style-type: none"><li>1. Dimension – 1350 x 550 x1020</li><li>2. Air Receiver –160-170 liter.</li></ol>