

DIRECTOR GENERAL BORDER SECURITY FORCE
(PROVISIONING DIRECTORATE (Mod Cell))

Expression of Interest

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**QUALITATIVE REQUIREMENT OF DOUGH KNEADING MACHINE/
ATTA KNEADING MACHINE**

Physical and Technical Characteristics	
1	Design – The system should have a user-friendly design. The system should be capable to make Dough Balls of different sizes as per requirement of user for making chapattis of weight between 20 to 55 gms with adjustable mechanism.
2	Dough Kneading Bowl – The Bowl should have a full metallic, food grade steel body of a suitable design as per latest BIS norms.
3	Capacity - Should be capable to produce final kneaded product of minimum quantity of 10/20/40 Kgs at a time.
4	Weight - The machine should have maximum weight with all accessories as per following : <ul style="list-style-type: none">• For 10 kg capacity – not more than 50 kgs.• For 20 kg capacity – not more than 75 kgs.• For 40 kg capacity – not more than 150 kgs.
5	Electric Motor – The motor provided must be robust and of a reputed brand with ISI Mark. <ul style="list-style-type: none">• Two HP Motor, 1440 rpm, single phase for 10/20 Kg flour kneading.• Three HP Motor, 1440 rpm, three phase for 40 Kg flour kneading.

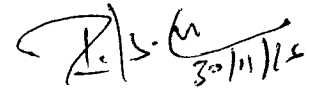
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	Note:- User will specify the make and model of the motor at the time of procurement.
6	Energy Efficiency - The system should have not less than 3 Star Energy rating.
7	System Wiring – Should have a standard electrical wiring with high quality insulated wires (ISI Mark).
8	Controls – There should be user-friendly controls for ease in operation.
9	Platform – The machine should have dual facility to be embedded in the platform as well as portable, detachable wheels with shock absorber mechanism to minimize/ reduce vibration during operation period.
Power Supply	
10	Operating Voltage - Equipment should operate on 230 Volt, 50 Hz AC Mains for single phase and 415/440 Volt, 50 Hz AC Mains for three phase as well as on Generator Power Supply.
11	External Voltage Stabilizer - Suitable Automatic/ Manual Voltage Stabilizer be provided as per motor requirement.
12	Power Plug - 3 Meter mains cord with Indian standard Power plug be provided as per motor requirement.
Miscellaneous	
13	Packing – The complete system should have single compact/robust packing for safe transportation in harsh terrain.
14	System Certification – System should have the latest ISI/ ISO certification.
15	Manuals & Technical Literature - Firm to provide Technical Literature, User's Manual and Maintenance Manual of the equipment.
16	Training in handling & operations - Firm to provide training for handling and operations at consignee location.
17	Repair & Maintenance - Firm to provide repair and maintenance training at consignee location.
18	Spares & Accessories - Firm to give an undertaking that it will provide Spares and Accessories back up for a period of 5 years. Firm to provide a list of spares along with their unit prices.

19	Guarantee & Warranty – Firm to give guarantee of one year and warranty for two years.
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Note- All firms are requested to comment upon the above mentioned QRs and furnish original OEM Brochures/ catalogues. Firms are also requested to quote their Model Name/ Number being offered on the proposed QRs.

The Sub-group has decided to upload the QRs on MHA/ BSF website for 15 days to invite the views/ comments/ suggestions of prospective bidders to make the QRs more broad based.



(Rishipal Singh)

Second-In-Command (Mod)