

GOVERNMENT OF PAKISTAN



Pakistan Ordnance Factories

INVITATION FOR PRE-QUALIFICATION

1. Applications are invited for prequalification of Original Equipment Manufacturers (OEMs) for provisioning of Plants & Machinery as per details given in Para-2 below. After the completion of Pre-qualification process, Tender documents will be issued to the successful pre-qualified firm(s) only. Application(s) must be submitted in sealed envelope(s) at the following address on or **before 29-09-2020**, but not later than closing time 1000 hrs.

INCHARGE BID CENTER
PAKISTAN ORDNANCE FACTORIES
WAH CANTT (PAKISTAN)

Though:-
I/C CR
POF WAH CANTT

The applications will be opened at **1030 hrs** on 29-09-2020.

Late applications shall not be accepted and shall be returned unopened.

2. Detail of the plant & machinery is as under: -

“ Triple Base Propellant Manufacturing Plant alongwith ToT having capacity 600 M/Ton in integration with existing Single Base propellant Manufacturing line”.

- 3 **General Terms & Conditions:**

3.1 The requirement of the plant equipment for Triple Base Propellant Manufacturing Plant is given in Anex “A”. However the finalization of specification and process of each equipment will be carried out during gap analysis by the OEM.

3.2 Installation & commissioning and Final Acceptance Test of the plant & Machinery mentioned above will be carried out under the supervision of OEM experts. The buyer will provide the required number of technicians/ workforce for this purpose.

3.3 After successful installation and commissioning, OEM will be responsible for operation of the plant and machinery for confirmation of quantity and quality of the product(s).

3.4 Trial run of the complete Triple Base Propellant Manufacturing Plant will be considered successful if it produces the requisite quality and quantity as detail given below:

- Propellant @ 02 M.Ton of finished product /day for 15 working days subject to satisfactory continuous run
- 02 x Propellant lots of each type weighing 15 M.Ton / lot will be produced which must conform to requisite ballistic parameter.

4. The request must clearly state *“Request for Pre-Qualification Documents”* for execution of work mentioned at Para # 2 above.
5. Pre-qualification will be based on the criteria regarding the applicant's Work Experience in relevant field, Personnel & Equipment / Plant Capabilities, Financial Soundness & Confirmation of Export License. POF reserves the right to waive minor deviations, if these don't materially affect the capability of an applicant to perform the requisite job.

6. Bidders shall be required to update the financial, personnel and equipment information used for prequalification at the time of submitting their bids, to confirm their continued compliance with the qualification criteria and verification of the information provided at the time of prequalification. A bid shall be rejected if the Applicant's qualification is no longer met our requirement at the time of bidding and the bidder's prequalification shall be discontinued till the firm again attains the qualification criteria.
7. Invitation to Bids shall be issued as per following to the successful prequalified bidders only;

Tender Enquiry	Triple Base Propellant Manufacturing Plant alongwith ToT having capacity 600 M/Ton in integration with existing Single Base propellant Manufacturing line.
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8. INSTRUCTIONS FOR APPLICANTS:

8.1 Applications for pre-qualification must be received in sealed envelope to be delivered by hand or through registered mail / courier to:

INCHARGE BID CENTER
PAKISTAN ORDNANCE FACTORIES
WAH CANTT (PAKISTAN)

Though:-
I/C CR
POF WAH CANTT

8.2 The name and mailing address of the Applicant shall be clearly marked on the envelope.

8.3 The applications shall be prepared in the English language.

8.4 The Applicants must respond to all questions and provide complete information as advised in this document. Any lapse to provide essential information may result in disqualification of the Applicant.

8.5 The Applicants may request clarifications (if any) through email / fax addressed to following:

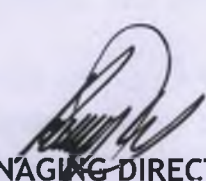
MANAGING DIRECTOR PAKISTAN ORDNANCE FACTORY HAVELIAN CANTT DISTRICT ABBOTTABAD, PAKISTAN. Phone #. 0992-810001, 810003 Ext. 28601, 28606, 28210, Fax +92-992-810318, E.mail: mdhvn@pof.gov.pk

Note: Query if any, must be received as per above address at least five (05) working days prior to Pre-qualification Proposal Submission Date. Queries received after this time may not be responded.

9 POF reserves the right to:

9.1 Reject or accept any application; and

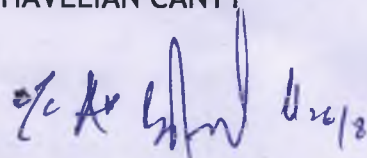
9.2 Cancel the prequalification process and reject all applications.


MANAGING DIRECTOR
PAKISTAN ORDNANCE FACTORIES
HAVELIAN CANTT

Tele: +92-992-810001, 810003 Ext.28601, 28606, 28210

Fax: +92-992-810318

E.mail: mdhvn@pof.gov.pk


27/12/18

Required Process and Equipment for Triple Base Propellants Manufacturing Plant

Sr. #	Plant & Machinery	Description												
i.	Paste Drying Unit. (Qty = 01)	NC NG paste drying unit is essentially required for drying of paste to be used in triple base propellant manufacturing plant. The dryer should be based on hot air blowing system. Final moisture of the product should not be greater than 0.30%.												
ii.	Accessories for Extrusion Presses Cylinder Dia (ID 320 mm)	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: center;">i</td> <td>Complete set of dies alongwith pins, die holders and other accessories for each type of propellant</td> <td style="text-align: center;">03 Nos</td> </tr> <tr> <td style="text-align: center;">ii</td> <td>Blank Extrusion Dies</td> <td style="text-align: center;">10 Nos</td> </tr> <tr> <td style="text-align: center;">iii</td> <td>Brass Sealing rings</td> <td style="text-align: center;">100 Nos</td> </tr> <tr> <td style="text-align: center;">iv</td> <td>Container for Propellant Dough having capacity commensurating with pre pressing cylinder of extrusion press.</td> <td style="text-align: center;">100 Nos</td> </tr> </table>	i	Complete set of dies alongwith pins, die holders and other accessories for each type of propellant	03 Nos	ii	Blank Extrusion Dies	10 Nos	iii	Brass Sealing rings	100 Nos	iv	Container for Propellant Dough having capacity commensurating with pre pressing cylinder of extrusion press.	100 Nos
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iii.	Rotary Cutting Machines (Qty = 02)	<ul style="list-style-type: none"> • Propellants cutting machines with adjustable cutting length having suitable capacity with all auxiliaries and safety gadgets. • Manual feeding is desired allowing maximum and easy placement of cords in feeding channel. • Feeding rollers in contact with propellant cords shall be adjusted according to required dimensions from control panel along-with provision of safety clutch in case of emergency stoppage • Speed of rotary cutter shall be adjustable and control from control panel for the production of desired quantity and quality of propellant size. • The cutter should offer maximum safety features that should be equipped with flame detector and deluge system along with safety switches and sensor. • The knives of rotary cutter should be made up of high quality explosive hazards compatible material and shall serve maximum operating life. • The arrangement of knives on rotary cutter should be so made that easy replacement and repair/service would be possible. • The rotary system shall induce natural air cooling system inside the cutting area, if required. 												
iv	Stoving Unit / House (Qty=02 Nos)	<ul style="list-style-type: none"> • Stoving facility of suitable capacity with all safety accessories for triple base propellant along with solvent recovery unit if required. • The house may be equipped with steam radiators on the wall to ensure the requisite temperature of the room around 60°C to remove the solvent from the propellants placed in the house. 												

v.	Sifting Machines (Qty = 02 Nos)	<p>Propellant Sifting Machines with suitable capacity along with following:</p> <ul style="list-style-type: none"> • Automatic Feeding Elevator and Charging Hopper. • 02 sets of sifting plates. • The plates shall be easily replaceable. • Angle of the machines shall be easily adjustable as per process requirement. • Speed of the machines shall be adjustable through variable gearbox. • Sifting machines shall be equipped with graphite / propellant dust collection system. • Appropriate system to remove chocking of sifting plates during sifting process. • The sifting machines shall be capable to function in the environment with relative humidity more than 65%. • Each sifting machines shall be equipped with all necessary safety devices i.e automatic fire alarm system, automatic sprinkler & drenching system, humidity and temperature control system etc. • The sprinkler system must be operate-able by automatic mechanism as well as manual.
vi.	Blending unit (Qty = 01)	<p>Complete Blending Unit having capacity 500 kgs / batch commensurating with annual capacity of 600 M.T for Triple Base Propellants along-with following:</p> <ul style="list-style-type: none"> • Appropriate Nos. of Propellant loading containers • Separate Control station • Ultra high speed fire detection and flooding system. • CCTV monitoring of sensitive / vital points of blending process. • Dust collection system. • Loading mechanism for charging of propellant into the blender. • The Blending unit shall be equipped with all necessary safety devices i.e automatic fire alarm system, automatic sprinkler & drenching system, humidity and temperature control system etc. • The sprinkler system must be operate-able by automatic mechanism as well as manual.