



**Government of Pakistan**  
**PAKISTAN ORDNANCE FACTORIES**  
**TENDER ENQUIRY**

Reference: TENDER ENQUIRY No: **449-FP-Capt-DS-Elect** dated: **18.10.2017**

You are requested to submit sealed quotations for the item(s) noted in the Schedule to the Tender. Offers should be sent duly sealed in an envelope. Please note the following instructions for filling the tender:

1. **SUBMISSION OF TENDER**

- 1.1 Tenders will be opened at **1230** hours on **27.11.2017** and must reach this office on or before 1200 hour up to due date. The tender received late will not be entertained. You may witness the opening of the tender if you so desire. If representative is to be deputed he should bring a letter of authority from you.
- 1.2 Only one tender should be included in one envelop. The outside of the envelope should be inscribed with:

Tender Enquiry No. 449-FP-Capt-DS-Elect, Dt: 18.10.2017  
Tender to be opened on 27.11.2017

Address as follows:-

- i) **TECHNICAL OFFER (PART-I)**      ii) **COMMERCIAL OFFER (PART-II)**

Director Services,  
POFs Wah Cantt – 47040 (Pakistan)  
Tele: +92-51-9055 21090  
Fax: +92-51-9271400, 9314100

Chairman POF Board  
POFs Wah Cantt – 47040 (Pakistan)  
Fax: +92-51-9271400, 9314100

- 1.3 If envelope does not indicate reference of T.Es or received late, the same will be returned un-opened.

2. **GENERAL INSTRUCTIONS REGARDING PREPARATION OF QUOTATIONS**

- 2.1 For materials, the prices should be filled in column 5 and delivery date in column 6 at Para I of the schedule to this Tender Enquiry. The undertaking should be signed at the bottom of the schedule, which shall form the Quotation. You may use a separate sheet if necessary.
- 2.2 For Plant and Machinery, you are required to quote in two parts:-

### **Part I "Technical Offer"**

- It should exclusively give technical details and literatures / brochures of the offered plant, machinery and equipment; validity date; delivery schedule; signed undertaking given on the schedule to this Tender Enquiry. It must not indicate price, costs etc.

### **Part II "Commercial Offer"**

- It should indicate the commercial terms e.g price, terms of payment, mode of payment, mode of supply.

Each part should be placed in a separate sealed cover. The envelopes should be inscribed with: Part I "Technical Quotation without price" and Part II "Commercial Quotation with price".

- 2.3 The quotation must remain valid for, at least 120 days from the date of opening of tenders.
- 2.4 The quotation should hold good for any reduced or enhanced quantities without notice.
- 2.5 In the event of non-acceptance of offer, intimation may be given to the Tenderers on their request.
- 2.6 Conditional offers or alternative offers are likely to be ignored.
- 2.7 Quotations should be based on F.O.B. The consignment will be shipped through Pakistan National Shipping Corporation (PNSC). In case there is no PNSC service in the country of shipping, please quote on C & F basis. The freight should be indicated separately. Insurance premium should not be included in the quoted price. However, where insurance is considered necessary, advice to that effect should be given in the quotation.
- 2.8 Submission of the offer through an agent in Pakistan should be avoided. In case it is considered inevitable, the agent's quotation must invariably be accompanied by the original proforma invoice from the principals / manufacturers.
- 2.9 Country of origin and port of shipment to be stated.
- 2.10 The offer of principal must clearly indicate whether the rate quoted is inclusive of agent's commission, and if inclusive, rate of commission included be specified.
- 2.11 Suppliers will render necessary information regarding hazardous effects on environment, of the materials / products supplied by them, in their quotations and shipping / Dispatch documents.
- 2.12 If the requisite information is not furnished on the T.E form or offer receive is not in conformity with the requirement of the T.E such offer shall be ignored.

### **3. INSPECTION**

- 3.1 Supplies shall be subject to the inspection and acceptance by the complete inspection authority nominated and purchaser, who will arrange it at his own cost, inspection facilities such as tools, test equipment, instrument etc will, however, be provided by the suppliers in accordance with the relevant specifications.
- 3.2 Where considered necessary by the purchaser, stores may be obtained on warranty / guarantee, subject to inspection on receipt. Rejected store will be removed and replaced with the acceptable store by the supplier at his own expense, within a specified time.

### 3.3 **TENDER SAMPLE**

Where required offer must accompany tender sample strictly according to the description given T.E. Offer not accompanied by tender sample will not be entertained excepting the established and reputable firms who have either previously satisfactorily supplied the same or similar stores or have submitted an acceptable samples thereof against previous T.E.

## 4. **ACCEPTANCE OF OFFERS**

4.1.1 The procuring agency may reject all bids or proposals at any time prior to the acceptance of a bid or proposals. The procuring agency shall upon request communicate to any supplier or contractor who submitted a bid or proposal, the ground for its rejection of all bid or proposal, but is not required to justify those grounds.

4.1.2 Procuring agency shall incur no liability, solely by virtue of its invoking sub-rule (1.1) towards suppliers or contractors who have submitted bids or proposals.

4.1.3 Notice of the rejection of all bids or proposal shall be given promptly to all suppliers or contractors that submitted bids or proposals.

### 4.2 **PERFORMANCE BOND**

a) The successful bidder will provide performance bond at the rate of 10% of F.O.B. Value of contract in favour of Controller of Military Account (CMA) Pakistan Ordnance Factories, Wah Cantt. The performance bond will be furnished in the form of deposit at call receipt (CDR) from any scheduled bank in Pakistan or an unconditional bank guarantee on prescribed proforma covered by any scheduled bank in Pakistan. The performance bond shall be furnished within 45 days from the date of opening of Letter of Credit. It shall be valid for a period of Two Years after the date of expiry of letter of credit. If performance bond is not furnished, within the above mentioned prescribed time of 45 days, the purchaser reserves the right to:

i) Cancel the contract and make other arrangement for purchase of the stores at the risk and expense of the supplier.

b) No performance bond will be required if the total FOB value of the contract is less than US\$50,000 and contract is placed directly on the foreign supplier.

### 4.3 **FAILURE TO SUPPLY THE STORES**

All deliveries must be completed by the specified date. If the failure to deliver the stores within the scheduled time should have arisen from "Force Majeure", which the purchaser may admit as reasonable ground for further time, he will allow such additional time as he may consider to have been required by the circumstances of the case. Otherwise, he will be entitled, at his discretion, to cancel the contract; and/or claim liquidated damages upto 2% but not less than 1% of the contract price of the items and their quantities for each and every month or part of a month, beyond the specified delivery date, during which these may not be delivered, Subject to a maximum of 10% of the total contract value of particular store which remain unsupplied either in part or in full or, to purchase, from elsewhere, the unsupplied stores at the risk and cost of the supplier.

#### 4.4 **PAYMENT**

4.4.1 Payment will normally be made by means of irrevocable letter of credit. Scheduled of payment is as under:

- i) 60% payment will be released against shipment on submission of shipping documents to the bank alongwith PSI certificate to the bank.
- ii) 20% Payment will be released after the successful inspection of the complete store at site in the presence of supplier's rep.
- iii) 20% payment will be released after satisfactory performance test of each unit.

4.4.2 All Bank charges incurred in Pakistan in connection with the establishment of L.C. will be borne by the purchaser, whereas all Bank charges incurred in connection with drawing of payment including charges for confirmation of L.C. by the advising Bank / Foreign Bank will be borne by the Supplier.

#### 5. **SECURITY OF INFORMATION**

The tenderer and his employees must not communicate any information relating to the sale/purchase of stores under this enquiry to any person other than the manufacturer or to any press or agent not authorized in writing by POFs to receive it.

Please return the schedule to the Tender duly signed by the specified date, alongwith the specifications, drawings etc. if any, enclosed herewith even if you are unable to quote.

#### **WARNING**

In case the firm abstain from making offers or fail to return/ acknowledge the tender from by the specified data on three consecutive occasion, no further tender enquiry may be issued to them and their names would liable to be removed from the approved list.

Yours faithfully,

Tele + 92-51-905521090  
+ 92-51-905521099

DIRECTOR SERVICES  
Fax + 92-51-9271400  
Fax + 92-51-9314100

## **PAKISTAN ORDNANCE FACTORIES**

SCHEDULE TO TENDER NO. **449-FP-Capt-DS-Elect** ,Dated: **18 -10-2017**

To be opened on **27-11-2017**

### 1. FOR MATERIALS

(1)	(2)	(3)	(4)	(5)		(6)
Item No.	Description with spec etc	Unit	Qty (Units)	Price per unit for C&F delivery.		Delivery date
				Price in figure	Price in words	
1.	Diesel Generator Set 500KVA (standby) complete set foreign assembled	Nos.	03			

### 2. For Plant & Machinery:

Specifications: - Attached as [Annexure-A](#)

Specifications may also be downloaded from POF Website ([www.pof.gov.pk](http://www.pof.gov.pk)).

### 3. Special Conditions:

3.1 Quotation/Offer are invited from the renowned OEM (Original Equipment Manufacturer) regarding supply of 3xDiesel Generator Set 500KVA.

3.2 OEM may quote directly or through their authorized dealers in Pakistan.

3.3 Authorized dealers must have power capacity of after sales and services in terms of sound warehouses of spares/consumable of Genset.

3.4 Technical staff should be well trained and experienced hand available in respective warehouses in Pakistan.

3.5 02 Weeks training to POF officials shall be provided by supplier at its premises:

- a) 01 x Officer
- b) 01 x Staff
- c) 04 x Technicians.

The supplier will bear all expenses on account of training, air ticketing, boarding/loading, including transportation & 30% DA of visiting team.

3.6 Pre Shipment inspection (PSI) will be carried out by the 01 officer and 01 technician for 01 week at OEM premises. Supplier will bear all expenses on account of PSI & training, air ticket, Boarding / loading, inland transportation & 30% DA of visiting team.

3.7 Authorized dealers of the renowned OEM may submit the quotation on behalf of their principal at abroad.

- 3.8 Offers with conditions like availability of export permit or any other restrictions will not be accepted.
- 3.9 The bids which agrees to all the General and special conditions of the Tender Enquiry will be evaluated strictly according to the bid evaluation criteria as given in the tender enquiry.
- 3.10 Firm will provide their complete company profile alongwith following information in the technical part of the tender.
- a) Detail of firm's capabilities, total assets, experience & performance in relevant field as mentioned in this tender.
  - b) Complete data of the similar product supplied to any organization / industry or installed anywhere in Pakistan during last five year.
  - c) Detail of testing facilities of the product available at firm's premises.

4. **Undertaking:-**

Should our offer be accepted, we hereby undertake to supply the stores/render the services contracted on the basis of General Conditions of Contract embodied in Form POF 1281-A, and to deposit the performance bond within the prescribed time, falling which it will constitute a breach of contract, and POF will have the right to purchase the stores/services elsewhere at our risk and cost.

Place \_\_\_\_\_  
 Date \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Signature of the Tenderer \_\_\_\_\_  
 Name \_\_\_\_\_  
 Position \_\_\_\_\_  
 Address \_\_\_\_\_  
 Income Tax G.I.R No. \_\_\_\_\_  
 Official stamp.

**SPECIFICATIONS****DIESEL GENERATOR SET 500KVA (STANDBY)  
COMPLETE SET FOREIGN ASSEMBLED.**Qty: **03 Nos.**

<b>A Output Ratings</b>		
i.	Generator Set Model – 3 Phase	500 KVA (Standby)
ii.	400/230 V, 50 Hz Ratings at 0.8 power factor	400 KW
iii.	Mechanical Efficiency	38% ~ 40%
iv.	Electrical Efficiency	90% ~ 95%
<b>B Engine Information:</b>		
i.	Engine Make/Model	
ii.	Country of Origin/Production	USA, UK, EU OR JAPAN
iii.	Aspiration and Cooling	
iv.	Total Displacement (Liters)	
v.	Number of Cylinders and Build	
vi.	Engine Speed: 1500RPM	
vii.	Bore and Stroke (mm x mm)	
viii.	Compression Ratio	
ix.	Governor	
x.	Fuel Consumption at full load (L/H)	
xi.	Fuel Tank Capacity (Liters)	
xii.	Oil Capacity	
xiii.	Coolant Capacity (Liters)	
xiv.	Radiator Cooling Air (m <sup>3</sup> /min)	
xv.	Air Intake Engine (m <sup>3</sup> /min)	
xvi.	Exhaust Gas Flow (m <sup>3</sup> /min)	
xvii.	Diesel Engine Oil Heater	
<b>C Chassis:</b>		
i.	The complete Gen Set mounted as a whole on a heavy-Duty Fabricated steel base frame.	
ii.	Anti vibration pads should be fixed between the engine/alternator feet and the base frame.	
iii.	Base frame design incorporates an integral fuel tank.	
iv.	The Generator set could be lifted or carefully pushed/Pulled with the base frame.	
v.	Dial type fuel gauge and Drain plug on the fuel tank.	
vi.	Fork lift pockets within base frame.	
vii.	Dimensions (LxWxH)	
<b>D Alternator Information:</b>		
i.	Alternator Make/Model	
ii.	Country of Origin/Production	USA, UK, EU OR JAPAN
iii.	Design	Brushless single bearing, Revolving field.
iv.	Stator	2/3 Pitch

v.	Rotor	Single Bearing Flexible Disc
vi.	Insulation System.	Class H
vii.	Standard Temperature rise.	
viii.	Exciter Type.	Self Excited
ix.	Phase Rotation.	A (U), B (V), C (W)
x.	Alternator Cooling.	Direct drive Centrifugal Blower fan.
xi.	AC Waveform total Harmonics Distortion.	
xii.	Telephone influence factor (TIF).	
xiii.	4 Pole output Circuit Breaker.	
xiv.	Anti Condensation heater.	
xv.	Automatic Transfer Switch 4 Pole	
xvi.	Earth Fault Single Set	
<b>E</b>	<b>Control System:</b>	
<b>(a)</b>	<b>Auto Main failure control panel</b>	
i.	Control with AMF Module	
ii.	MOR (Mechanical Over Ride)	
iii.	Static Battery Charger with ampere meter	
iv.	Emergency Stop Push Button	
<b>(b)</b>	<b>Generating set control module Feature</b>	
i.	The module is used to monitor a mains supply and starts and stops a standby generating set	
ii.	Micro-Processor based design	
iii.	Automatic Control of mains and generator contactors	
iv.	Monitors Engine Performance and AC power output	
v.	LED Alarm indication	
vi.	Front panel configuration of timers and alarm trip points	
vii.	Easy Push button Control	
<b>(C)</b>	<b>Metering via LED display</b>	
i.	Generator Volts(L-L/L-N)	
ii.	Engine Oil Pressure	
iii.	Generator Ampere	
iv.	Engine Temperature	
v.	Generator Frequency	
vi.	Plant battery Volts	
vii.	Engine Hours Run	
viii.	Mains Volts (Ph-Ph/Ph-N)	
ix.	Generator KVA, KWh	
x.	Generator KW as % of rated KW setting	
xi.	Generator Cos $\Phi$	
<b>(d)</b>	<b>Alarms</b>	
i.	Over and Under speed	
ii.	Low and High Battery Volt	
iii.	Start and Stop failure	



iv.	Charge fail
v.	Over Current
vi.	Under/Over Generator Voltage
vii.	Low Oil Pressure
viii.	Emergency stop
ix.	High engine temperature
x.	KW overload
xi.	Unbalanced load
xii.	Independent Earth fault trip
<b>(e)</b>	<b>LED Indications</b>
i.	Main available
ii.	Generator available
iii.	Mains on load
iv.	Generator on load
<b>Complete Digital Synchronizing System to Run Gen Sets Parallel with each other.</b>	
<b>F.</b>	<b>TURN KEY SOLUTION:</b>
i.	Installation and Commissioning of Generators
ii.	Laying of Power and Control Cables (Cables should be according to BSS6346)
iii.	Erection Material
iv.	Complete Electrical Grounding system for Generators including construction of Earth pits.
v.	Site visit for the Firm is necessary.
<b>G</b>	<b>SPARE PARTS:</b>
i.	Consumable parts for 02 years to be used after expiry of Warranty / guarantee period (for each Generator Set) alongwith their prices in addition to following spares:
ii.	03 x Controller Unit
iii.	03 x AVR
iv.	03 set x Diodes
v.	03 set x Bearings
vi.	03 x Self Starting Motor.
<b>H</b>	<b>TOOLS:</b>
i.	List of complete Tools & tackles Kit for each Diesel Gen Set for minor and major overhauling alongwith their prices.
<b>I</b>	<b>LITERATURE IN ENGLISH LANGUAGE: (for each Generator set.)</b>
i	02 set of electrical wiring diagram
ii	02 set of engine catalogue / trouble shooting guide / maintenance manual specifying minor and major overhauling details in English language.
iii	02 set of spare parts catalogue
<b>J</b>	<b>WARRANTY:</b>
i	Two years warranty for free of cost replacement of all parts of the Power GENERATOR Set including Batteries. Availability of all spare parts up to 10 years. The successful bidders will provide Performance Bond at the rate upto 10% of F.O.B. value of contract in favour of the Controller Military Accounts (CMA) POF Wah Cantt, which will be released after expiry of warranty period.

<b>K</b>	<b>Pre-shipment Inspection:</b>
i	48 hours continuous running on full load, Engine and alternator efficiency, automatic synchronization, ATS panel and other controls.
ii	Pre Shipment inspection (PSI) for one week at firm's premises. (01 x Officers and 01 x Technicians) and final inspection at POF Wah.
<b>L</b>	<b>Training:</b>
i	02 Weeks training at firm's premises (01 x Officer, 01 x Staff and 04 x Technicians).
<b>M</b>	<b>FAT: (Final Acceptance Test)</b>
i	96 hours continuous running on full load.
<b>N</b>	Prices for required spare parts and tools & tackles for minor and major overhauling be quoted separately.
<b>O</b>	<b>O&amp;M Cost:</b>
	Operation & Maintenance cost / year for major overhauling be provided separately.

**EVALUATION CRITERIA:**

The bids which agree to all the General & Special Conditions of the Tender Enquiry will be evaluated strictly according to the bid evaluation criteria as given in the Tender Enquiry.