



University of Science & Technology Bannu

Main Campus, Bannu Township Ph. No. 0928-633817-18, Fax No. 0928-633821, URL: <http://www.ustb.edu.pk>

Dated: September 25, 2019

University of Science & Technology, Bannu

Tender Notice No: 04/2019-20

(Single Stage - Two Envelope Procedure)

University of Science & Technology Bannu invites sealed quotations under Single Stage-Two Envelopes Procedure from reputable Authorized Dealers/Original Manufacturer registered with Sales Tax and Income Tax Department for supply & Installation of 100KVA & 30 KVA Diesel Generator under PSDP Project "Strengthening and Up-gradation of Universities of Backward Areas".

Tender document along with detailed specification, terms and conditions can be obtained from the office of Store Officer on submission of a Bank Draft of Rs.2000/- (Non-refundable) in favor of Treasurer University of Science & Technology, Bannu from September 25, 2019 to October 15, 2019 during the office hours (Saturday and Sunday holidays).

Quotation duly filled must reach along with the earnest money @ 2% of bid cost in shape of Call Deposit from any scheduled bank in favor of Treasurer University of Science & Technology, Bannu latest by October 15, 2019 (1:00 pm) while the Pre-Bid meeting will be held on October 10, 2019.

Technical Bids will be opened on October 15, 2019 at 2:00 pm in Conference Room, University of Science & Technology, Bannu.

The complete Tender documents can also be seen/downloaded from the official website of the University i.e. www.ustb.edu.pk

Registrar

University of Science & Technology, Bannu

TENDER DOCUMENT

For Supply & Installation of 100KVA & 30 KVA Diesel Generator
from PSDP Project Title "Provision of ICT Lab Equipment's and
Construction of Girls Hostel at UST-Bannu under umbrella Project
Strengthening and Up-gradation of Universities of Backward Areas.



Issued by

Store Section / Secretary Purchase Committee

Administration Block, main Campus Township

University of Science & Technology, Bannu

Khyber Pakhtunkhwa, Pakistan

Ph # 0928 - 633817-18, Fax # 0928-633821, <http://www.ustb.edu.pk>

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Tender Specification

University of Science & Technology, Bannu

S NO.	ITEMS	SPECIFICATIONS	QTY (Nos)	Unit Price Including all taxes (Rs)	Total Price Including all taxes (Rs)
1	100 KVA Diesel Generator	As Per Annex-I (Attached)	01		
2	30 KVA Diesel Generator	As Per Annex-II (Attached)	01		

General Specifications of 100 KVA Diesel Generating Set Engine Technical Data

Annex-I					
Engine Manufacturer		John Deere/ Cummins/ Perkin UK/ Japan/ USA or equivalent European brand.			
Engine Power		Prime(KVA)		Standby(KVA)	
		100		110	
Power Factor		0.8			
Frequency		50Hz			
Number of cylinder		Four stroke (4 Cylinder) heavy duty high performance industrial type diesel Engine.			
Governor Type		Electronic / Mechanical			
Aspiration		Turbo Charged			
Combustion system		Direct Ignition			
Voltage		400/230			
Fuel system	Tank Capacity	L/Hr at 50% load	L/Hr at 75% load	L/Hr at 100% load	
Diesel	8 hours base tank capacity plus 500	11.2	17.1	22.6	

	liters Additional external tank.	
Cooling	Water	
Coolant Type	Gencool	
Coolant Capacity	20 L or better	
Noise Level dB @1m	80 dBA.	
@7m	70 dBa	

Alternative Data

Engine coupled to Single bearing Brushless Alternator.

Description	Details
Make	Leroy Somer/ Stamford or other equivalent UK brand.
No of bearings	1
Insulation Calss	H
Wires	12
Ingres Protection	IP23 or High
Excitation system	Self
Winding Pitch	2/3
AVR Model	S X 460/AS 440 or equivalent
Voltage Regulation	Steady _1%

Assemblers:

SDMO, FG Wilson, Olympian, Caterpillar, Siemens, Perkins, Cummins or Equivalent UK brands.

Control Panel

Make	deep Sea or equivalent
Model	7000Series or equivalent

The DSE7000Series is an Auto start control Module for single Genset applications. It includes backlit LCD display which clearly shows the status of the engine all the time. This module can either programmed using the front panel or by using the DSE configuration site PC Software.

Generator shall comply with the following:

1. Radiator Cooled.
- 2.

Metering And Alarm Indications:

1. Generator Frequency

2. Under speed , Over speed
3. Generator Volts.
4. Generators Current.
5. Engine Oil Pressure.
6. Engine Coolant Temperature.
7. Fuel Level (Warning a shot down).
8. Hours runs Counter.
9. Battery Voltts.
10. Fail to start/Stop.
11. Emergency Stop.
12. Failed to reach loading Voltage/ Frequency
13. Change fail.
14. Loss of Magnetic Pick up single –Optional.
15. Low DC Voltage.
16. Can Diagnostic & Can fail/ error
17. Power factor

Standard specification

1. Engine

- Four stroke (4 Cylinder) heavy duty high performance industrial type diesel Engine. The Generator must be manufactured and assembled in Europe/ Japan/ USA or equivalent and complete in all respect.

2. Engine Filtration System

- Cartridge type dry air filters.
- Cartridge type fuel filters.
- Full flow lube oil filters

3. Cooling Radiator;

- Radiator & Cooling fans complete with safety guards, designed to cool the engine at high ambient temperatures.
- The Generation Set may resist the weather effects of District Bannu.

4. Exhaust System:

- Heavy duty industrial Exhaust Silencer.

5. Circuit Breake

- ABB 3 Pole MCCB or equivalent.

6. Fuel System

- The base frame is incorporated with an integral fuel tank with capacity of approx 8 hours running at full load. The tank is supplied Complete in all respect.

7. Alternators

7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.

- Heavy coat of anti-tracking varnish additional protection against moisture or condensation.

7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

- The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 1\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

8. MOUNTING ARRANGEMENT

8.1 COUPLING

- The Engine and Alternator should directly couple. The Engine flywheel should be flexibly coupled to the Alternator rotor.

8.2 ANTI-VIBRATION MOUNTING PADS

- Anti-Vibration pads are required affixed between the Engine / Alternator feet and the Base frame thus ensuring complete vibration isolation of the rotating assembly.

8.3 SAFETY GUARDS

- The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

9. FACTORY TEST

- The Generating set will be load tested before dispatch.
- All protective devices control functions and site load conditions should be simulated. The generator and its systems will be checked before dispatch, the cost of inspection will be bare by the Supplier.

10. EQUIPMENT FINISHING

- All mild steel components are required fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

11. QUALITY STANDARDS

- The equipment meets the following standards:

BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

12. WARRANTY

- All of the Generating Sets should covered under a warranty policy for a period of 12 months. Warranty of the equipment is in line with manufacturer's warranty terms & conditions.

13. Rating Definitions

- **Prime Power:** Variable load. Unlimited hour's usage with an average load factor of 80% of the published prime power over each 24 hour period. A 10% overload is available for 1 hour in every 12 hours of operation.
- **Standby Power:** Variable load. Limited to 500 hours annual usage, up to 300 hours of which may be continuous running. No overload is permitted.

14. Canopy:

- Providing & Installation of weather & sound proof canopy, Suitable for 100KVA Diesel Generating set of high quality Europe/ Japan/ USA or equivalent made. The Canopy may have the facility of locking and proper Exhaust system.

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15. Earthing/ Grounding:

- Earthing/ Grounding one for neutral and one for body with resistance of less than one ohm.

16. Foundation Mounting Pad:

- RCC type Concrete foundation pad with standard mesh. Foundation pad must be 1 feet high from NSL and 1 feet larger in all the dimension from GenSet must be constructed with concrete strength of 3000PSI at 28 days.

17. Electric Power Cable:

- Power cable 95mm 4core 50 meter and control cable (Pakistan Cables, Fast cable or Newage cable) a/w conduit pipe (UPVC) class-B 45 meter 4 inch (Popular, Beta, Dadex) of appropriate size sufficient for the requirement of Power supply. Payment of Power and Pipe will be made as per actual.

18. Automatic Transfer Switch:

- Automatic Transfer Switch (ATS) with manual override for switching between Prime source of power (City Power) and generator set. The ATS must have static battery charger, necessary protection and metering system.

**General Specifications of 30 KVA Diesel Generating Set
Engine Technical Data**

Annex-II					
Engine Manufacturer		John Deere/ Cummins/ Perkin UK/ Japan/ USA or equivalent European brand.			
Engine Power		Prime(KVA)		Standby(KVA)	
		30		33	
Power Factor		0.8			
Frequency		50Hz			
Number of cylinder		Four stroke (4 Cylinder) heavy duty high performance industrial type diesel Engine.			
Governor Type		Electronic/ Mechanical			
Aspiration		Natural			
Combustion system		Direct Ignition			
Voltage		400/230			
Fuel system	Tank Capacity	L/Hr at 50% load	L/Hr at 75% load	L/Hr at 100% load	
Diesel	8 hours base tank capacity plus 500 liters Additional external tank.	3.9	5.4	7.1	
Cooling		Water			
Coolant Type		Gencool			
Coolant Capacity		10 L or better			
Noise Level dB @1m		80 dBa			
@7m		70 dBa			

Alternative Data

Engine coupled to Single bearing Brushless Alternator.

Description	Details
Make	Leroy Somer/ Stamford or other equivalent UK brand.
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Generator shall comply with the following:

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Metering And Alarm Indications:

- Generator Frequency
- Under speed , Over speed
- Generator Volts.
- Generators Current.
- Engine Oil Pressure.
- Engine Coolant Temperature.
- Fuel Level (Warning a shot down).
- Hours runs Counter.
- Battery Voltts.
- Fail to start/Stop.
- Emergency Stop.
- Failed to reach loading Voltage/ Frequency
- Change fail.
- Loss of Magnetic Pick up single –Optional.

- 32. Low DC Voltage.
- 33. Can Diagnostic & Can fail/ error
- 34. Power factor

Standard specification

14. Engine

- Four stroke (4 Cylinder) heavy duty high performance industrial type diesel Engine. The Generator must be manufactured and assembled in Europe/ Japan/ USA or equivalent and complete in all respect.

15. Engine Filtration System

- Cartridge type dry air filters.
- Cartridge type fuel filters.
- Full flow lube oil filters

16. Cooling Radiator;

- Radiator & Cooling fans complete with safety guards, designed to cool the engine at high ambient temperatures.
- The Generation Set may resist the weather effects of District Bannu.

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- Heavy duty industrial Exhaust Silencer.

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- ABB 3 Pole MCCB or equivalent.

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- The base frame is incorporated with an integral fuel tank with capacity of approx 8 hours running at full load. The tank is supplied Complete in all respect.

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7.1 INSULATION SYSTEM

- The insulation system is Class H.
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- The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at $\pm 1\%$. Nominal adjustment by means of a trim pot incorporated on the AVR.

21. MOUNTING ARRANGEMENT

8.1 COUPLING

- The Engine and Alternator should directly couple. The Engine flywheel should be flexibly coupled to the Alternator rotor.

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- Anti-Vibration pads are required affixed between the Engine / Alternator feet and the Base frame thus ensuring complete vibration isolation of the rotating assembly.

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- The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

22. FACTORY TEST

- The Generating set will be load tested before dispatch.

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- All mild steel components are required fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

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17. Electric Power Cable:

- Power cable 25mm 4core 50 meter and control cable (Pakistan Cables, Fast cable or Newage cable) a/w conduit pipe (UPVC) class-B 45 meter 2 inch (Popular, Beta, Dadex) of appropriate size sufficient for the requirement of Power supply. Payment of Power Cable & Pipe will be made as per actual.

18. Automatic Transfer Switch:

- Automatic Transfer Switch (ATS) with manual override for switching between Prime source of power (City Power) and generator set. The ATS must have static battery charger, necessary protection and metering system.

Note:

1. The unit rate for the item/equipment will be considered.
2. The rate of item/equipment must include all charges of transportation, erection, testing and commissioning etc.
3. The rate shall be inclusive of all taxes/duties (Federal/Provincial).
4. For tax exemption, proper tax exemption certificate/evidence shall be provided from the quarter concerned.

Bidder Signature with Date: _____

Terms & Conditions

1. Rates should be quoted against each item desired for bid.
2. Income Tax and Sale Tax shall be deducted at source as per rules.
3. In case of non-supply of required item(s) mentioned in the Tender documents, CDR will be forfeited in favor of the University.
4. The number of items can be increased or decreased with the approval of the Competent Authority.
5. No tender or bid shall be entertained without deposition of Tender fee @ Rs.2000/- in favor of Treasurer University of Science & Technology, Bannu.
6. No alternate rate shall be entertained for the items/equipment.
7. No tender/bid shall be accepted without tender application form duly signed by the firm.
8. The Competent Authority reserves the right to accept or reject any or all of tenders processed by assigning any reason(s) (as per KPPRA Rules).
9. No overwriting / cutting / corrections or interpolation will be allowed in the BOQ's/Quotations/bids, if any.
10. The bidders must submit Non-Black List Certificate (confirming that bidder has never been blacklisted by any Government/Semi Government Organization) along with their offer, failing which their offer will be rejected.
11. Conditional / incomplete tenders will not be accepted.
12. For the sake of **GENUINENESS** of the quoted equipment, bidders must produce Manufacturer's Authorization Letter/Sole Distributor certificate or Authorize Dealer certificate along with Tender Documents
13. **Warranty:** The warranty period of at least 01 (one) year is mandatory to be mentioned in the quotations. The security will be withheld till completion of warranty period. Furthermore, the firm will be responsible within the warranty period for repair/maintenance of items in the light of rule No.13 of KP Procurement of Goods Works and Services rules 2014.
14. **Bid Validity:** The bid prices must be valid for at least **90 days** from the date of Tender opening. Bid extension if needed will be given as per rules.
15. **Delivery Schedule:** The successful bidder will be bound to complete supply of items in stipulated time as given in the supply order otherwise penalty at the rate of 1.5% per day late supply for the first 10 days and 4% for the subsequent period will be imposed accordingly.
16. **Payment Schedule:** Payment to the supplier will be released in 45 days subject to satisfactory inspection report from end user/Head of department/expert for the item/equipment.
17. **Earnest Money:** 2% earnest money in shape of CDR shall be deposited in the name of Treasurer, University of Science & Technology, Bannu failing which the bid document will not be entertained. The bid security of unsuccessful bidder(s) will be returned after award of supply order to the successful bidder(s), while CDR to the successful bidder(s) will be released after execution of the order/contract/payment.
18. **Late submission of Bid(s):** Any bid received after the prescribed date and time for

submission of bids shall be returned unopened to the bidders.

19. **Disqualification of Supplier and Contractors:** University of Science & Technology, Bannu shall disqualify a supplier/contractor if it finds at any time that the information submitted by him concerning his qualification as supplier/contractor was false and materially inaccurate or incomplete.
20. **Rejection of Bid(s):** According to rule No.47 of KP Procurement of Goods Works and Services rules 2014, University of Science & Technology, Bannu may reject all bids or proposal at any time prior to the acceptance of bid/proposal.
21. **Acceptance of Bid(s):** The bidder with lowest evaluated bid if not in conflict with any other law, rules, regulation or policy of the Government of Pakistan shall be awarded the procurement contract.

Bidder Signature with Date: _____

Instructions to Bidders

1. Bid security shall be kept sealed in the Financial Proposal, in addition, keep on affidavit in the Technical Proposal stating that the bid security amounting to 2% without indicating the figure in the letter has been placed in the Financial Proposal, otherwise the technical proposal will be considered non-responsive and will be returned to the bidder after being examined by the procurement committee.
2. The Bid shall comprise a single package containing two separate envelopes. Each envelope shall contain separately the Financial Proposal and technical Proposal,.
3. The envelopes shall be marked as "FINANCIAL PROPOSAL AND TECHNICAL PROPOSAL" in Bold letters.
4. All communications and documentation related to procurements shall either be in Urdu or English or both as per rule No.4 of KP Procurement of Goods Works and Services rules 2014.
5. The rates/prices/offer in the tender document should be in Pakistani Currency (PKR). The rate for each items shall be inclusive of all taxes. (if any).
6. Relevant brochure/written literature of the item/equipment must be enclosed with the bid document duly signed by the bidder.
7. All the tender document/quotation/brochure (if any), must be signed by the bidder.
8. Optional item / equipment will be considered as per rules.
9. The firms must write on the corner of envelop the name of the items/equipment applied for.
10. The bidder(s) shall bear all cost associated with the preparation and delivery of their bids, and the Purchaser will in no case be responsible or liable for those costs.
11. In case of any doubt as to the meaning of any portion of the Specifications or other Terms and Conditions, bidder(s) may seek clarification of the same in writing, before submission of bid(s) prescribed by the Purchaser.
12. The purchaser will neither take any responsibility for collecting the bids from any agency nor late submission of bids through courier services will be entertained.
13. The Purchaser reserves the right to increase or decrease the quantities or may cancel any or all items shown in the Schedule of Requirement without assigning any reason thereof.
14. The Purchaser reserves the right to have the items inspected by its own representative, or by 3rd party at its own cost (if required).
15. The Purchaser reserves the right to accept or reject any bid prior to award of Purchase Order without any reason. However, UST-Bannu shall upon request communicate to any bidder(s) who submitted a bid, the grounds for its rejection, but it is not required to justify those grounds.
16. Unsolicited advice/clarifications and personal approaches by the bidder(s) at any stage of evaluation are strictly prohibited and shall lead to disqualification.
17. The bidder(s) are expected to examine all instructions, terms & conditions, forms, specifications in the Bidding Documents and abide by thereof.
18. Refurbished, Grey, used, open box or smuggled products will not be accepted in any case.
19. Black listing of the firm/company will be made on various grounds i.e., provision of fake documents, non-compliance to terms and conditions, withdrawal of bid during validity period, refusal /failure of signing contract, repeated non-performance, indulge in fraud and corruption, unethical behavior with University officials.
20. Provision of sample is obligatory for the bidder in due course of time, if mentioned in supply order, and if the firm fails to provide the sample, then the firm will be excluded from the tender and CDR will be forfeited in favour of UST-Baanu.
21. The training/installation/calibration (if any) for the equipment at the University will be arranged free of cost by the firm/supplier.

Bidder Signature with Date: _____

Method of Procurement

The method of procurement adopted by University of Science & Technology, Bannu will be Single Stage - Two Envelope Procedure for selection of the firm. The bidder should submit two separate sealed envelopes. One envelope should contain the Technical Proposal and the other envelope should contain the Financial Proposal. Both envelopes should be clearly marked "**Technical Proposal**" and "**Financial Proposal**". Initially only the envelope marked Technical Proposal shall be opened, while the Financial Proposal shall be retained in the custody of Procurement Committee for Goods without being opened. The Purchase Committee shall evaluate the Technical Proposal against the evaluation criteria set for the equipment/item. The Financial Proposal of the technically successful bidder(s) shall be opened at a time, date and venue announced/communicated to the bidders in advance. The bid found to be the lowest evaluated shall be accepted, while the financial proposal of bids found technically non-responsive shall be returned unopened to the respective bidders.

Bidder Signature with Date: _____

Technical Evaluation Criteria of the Bid

BID Evaluation Criteria

S.No.	Description	MARKS
1	The firm only reputed and original manufacturer of complete 100 & 30 KVA DG set including Engine, Alternator and accessories or manufacturer's authorized supplier/service provider of the same is eligible to participate in the tender. Sufficient and adequate proof in support of the above in the technical proposal. Note:- No assembler or reseller shall be considered. Combination of different makes of engine and Alternator is strictly not acceptable.	20
2	Credential of supply and installation of at least 05 Nos. 100 & 30 KVA DG set to Centre, state, defense, public sector or national institution during the last 03 years. Copies of work order/completion certificates are to be attached.	10
3	Availability of authorized service center/repair and maintenance facility in Peshawar/Islamabad/Rawalpindi. Address and contact detail are to be attached.	10
4	Detail of competent testing authority for certification of equipment parameters and performance guarantee of the DG sets. Schedule of principal items which the tenderer proposes to supply.	10
5	Trading License, PEC License, and tax payer registration certificate	15
6	Spare parts availability (the firm or its principal has spare parts depot/facility in the area in consideration.	15
7	Proof of registration with Federal or Provincial registration Act	10
8	Technical Staff posted in the zone in consideration	10
	Total	100

Note:-

i. Qualification Marks for financial bid opening are 70 out of 100 marks.

ii. Contract shall be awarded to the bidder whose bid is responsive and is determined as the best evaluated bid.

iii. 70:30 (Technical: Financial) ratio shall be applied for the subject procurement.

Financial Evaluation:

The bid with the lowest price will be given a score of 100 while the other proposals will be given scores that are inversely proportional to the lowest cost bid using the formula as under;

$$\text{Lowest Bid Price} \div \text{Bid Price} \times 30 = \text{Financial Score}$$

Combined Technical and Financial Score

A total score for each bid will be obtained by adding technical score weightage and financial score weightage. Technical Score shall be given 70% Weightage and Financial Score shall be given 30% weightage. Tender will be awarded to highest ranked firm whose bid is responsive in terms of technical and financial as best evaluated bid.

Bidder Signature with Date: _____