



KAZI NAZRUL UNIVERSITY

Nazrul Road, Kalla More, P.O. – Kalla C. H.

Asansol – 713340, Dist.-Paschim Bardhaman, West Bengal

www.knu.ac.in

e-Tender Document ***For Procurement of instrument/equipment for the*** **department of Mining Engineering, KNU**

These documents are meant for the exclusive purpose of bidding against this NIT and shall not be transferred, reproduced or otherwise used for purposes other than that for which they are specifically issued

Kazi Nazrul University
Nazrul Road, Kalla Bypass More, Asansol,
Paschim Bardhaman – 713340



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Ref. No.: KNU/EO/ETENDER(Mining)/NIT-02/21/22

Date: 09.06.2022

NOTICE INVITING TENDER

Request for Proposal (RFP) through E-TENDER platform

KAZI NAZRUL UNIVERSITY (KNU) intends to procure instruments/equipment for Mining Engineering Department at Asansol through Online eTender. The tentative quantity of the required items along with technical configuration of each items are mentioned. KNU is looking for interested bidders who have experience in supplying of above type of instruments and may follow the instructions as given below for submission of their tenders under online mode.

1. General Instructions:

Intending bidder may download the tender documents from the website <https://wbtenders.gov.in> directly with the help of Digital Signature Certificate. Last date of submission is **29.06.2022** at **16hrs**. Bid opening time is **01.07.2022** at **12:30 hrs**.

2. Submission of bids:

Both Technical bid and Financial Bid are to be submitted concurrently duly digitally signed by the Company personnel who is in the pay roll of the Company (having Authorization from the Company management) in the website <http://wbtenders.gov.in>. All papers must be submitted in English language.

3. Time Schedules for the e-tender:

The Time Schedule for obtaining the Bid Documents, Pre Bid meetings, the submission of bids and other documents etc. will be as per the list provided in Clause No. 10 given below.

4. Eligibility for Quoting:

Manufacturers or Dealers/Distributors/Agents duly authorized by the manufacturers who are able to supply the assured quantities as per requirement & have requisite Annual Average Turnover, as per clause no. 5, are only eligible for quoting. Manufacturers not having the capability to supply the required quantity solely need not apply. Failure of submission of declaration of full supply will lead to cancellation of tender. Further, vendors who were declared black listed and/or insolvent by any Govt. Concern/any Institutions in the Country for particular item or items are not eligible to participate in the current tender for that item or items.

5. Annual Turnover Requirements:

Vendor having average annual Turn Over more than **Rs30 lakh** in India or equivalent foreign currency in the respective foreign country for the year **2018-19, 2019-20 & 2020-21** are eligible to participate in the Tender.



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6. Submission of Tenders

6.1. General process of submission

Tenders are to be submitted online through the website stated in Clause 1. All the documents uploaded by the Tender Inviting Authority form an integral part of the contract. Tenderers are required to upload all the tender documents along with the other documents, as asked for in the tender, through the above website within the stipulated date and time as given in the Tender. Tenders are to be submitted in two folders at a time, one is Technical Bid and the other is Financial Bid. The tenderer shall carefully go through the documents and prepare the required documents and upload the scanned documents of originals in Portable Document Format to the portal in the designated locations/folders of Technical Bid. He needs to fill up the BOQ in the designated cell and upload the same in designated location of Financial Bid. The documents uploaded are virus scanned and digitally signed using the Digital Signature Certificate (DSC). Tenderers should specially take note of all the addendum/corrigendum related to the tender till the bid submission ends. Tenderers should in general upload the latest documents as part of the tender, however, in case of failure in uploading such documents, it will be deemed that they (tenderers) have taken note of such latest documents including addendum/corrigendum, if published till the bid submission ends.

6.2. Technical Bid

The Technical Bid should contain scanned copies and/or declarations in the following standardized formats in two folders:

I. Technical File (Statutory Cover) containing:

1. Annexures

- a) Basic Information (Vide Annexure I) (to be submitted in “Annexure” folder)
- b) Application for Tender - (Vide Annexure II) (to be submitted in “Annexure” folder)
- c) Authorization letter - (Vide Annexure III) (to be submitted in “Annexure” folder)
- d) Affidavit Proforma (Vide Annexure IV) (to be submitted in “Annexure” folder)
- e) DECLARATION ON KNU(Vide Annexure V) (to be submitted in “Annexure” folder)

2. **Technical details of the Items Quoted (Bidders must submit Technical specification along with Catalogue of the item quoted in “Technical Details” Folders).**

3. **Bidder must submit Audited Balance Sheet and Profit and loss Account for last 3 (three) financial year namely 2018-19, 2019-20 &2020-21 in “Accounts” folder.**

Note: Tenders will be summarily rejected if any item in the statutory cover is missing.



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II. My Document(Non-Statutory Cover)containing as follows:

Sl. No.	Category	Sub-Category	Sub-Category Description
1	Certificates	Certificates	PAN Card of the Bidder
			GST Registration Certificate
2	Company Details	Company Details 1	Trade License/Enlistment Certificate/License for Electrical works (Mandatory for Electrical installation work)
			Registration with Registrar of Companies (if any)
			Memorandum of Articles for Limited Companies (if any)
3	Credential	Credential 1	Copy of the purchase order for supply in similar nature of items at least for last 2years in an Institute of Higher Learning
			Brief User List preferably for users in West Bengal in an Institute of Higher Learning
4	Financial Information	Certificate 1	Income Tax Returns submitted for the financial year 2018-19, 2019-20, 2020-21
		Certificate 2	GST Returns for the year 2018-19, 2019-20, 2020-21

6.3. Financial Bid

The Financial Bid should contain Bill of Quantities (BOQ)in one cover (folder): Proforma (Don't quote here)

Sl. No	Items	Specification	Rate (INR) A	Quantity B	Total (INR) =A*B	GST amount @....% C	Amount (INR) D={A*B+(A*B*C)}
1	Mechanical Vane Anemometer	<ul style="list-style-type: none"> Consists of a small windmill with 8-10 vanes set at an angle of 40° to 45° to the direction of airflow. Diameter of the dial: 100-115 mm Velocity range: 0-15 m/s Weight: 0.4-0.8 kg May have an arrangement of auto shutdown after 1 minute Accessories: Carrying Case, Correction Table Make: Lambrecht meteo/Standard brand <u>The instrument is used for measuring velocity in underground mines and not to be confused with electronic velometer</u> 		3			



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2	Rock Triaxial Cum Unconfined Compression Testing Machine	<ul style="list-style-type: none"> • Loading Unit 1000 kN with 500 kN Load Cell with pumping unit - 1 set • Hoek Cell for Triaxial Testing of Rock Samples of exact dia NX Size - 1 No. • Display indicator 6 channel - 1 No. • Strain Gauge amplifier for axial & lateral strain - 2 Nos. • Hand pump with 600 bar pressure sensor - 1 set • LVDT 10 mm x 0.01 mm for Unconfined test - 1 No. • Spare Strain Gauge - 10 Nos. • DAQ Indicator - 1 No. • <u>The instrument should be able to provide real-time load and strain data during the test by means of electronic data logger and/or computer.</u> 		1			
3	Core cutting and grinding machine	<ul style="list-style-type: none"> • The unit should cut and grind cylindrical rock specimens up to 150 mm dia. The outfit includes 200mm diameter diamond impregnated cutter, a fine diamond impregnated grinding wheel, a water supply system and sample holder • A V-Vice should be provided to hold the sample upto 55 mm dia x 140 mm long to be cut parallel and square to the longitudinal axis. Cores longer than 140 mm can be prepared by reversing the specimen and holding the same vice. • A hand feed arrangement should be provided to facilitate the specimen with a uniform and smooth feeding motion • <u>The machine should cut rock/coal cores to standard size as per ISRM norms for different tests like: Unconfined compressive strength, Triaxial strength, Point Load Test, Slake Durability Test etc.</u> 		1			
4	Core Drilling Machine	<ul style="list-style-type: none"> • Heavy duty, pillar type frame. • Varying cutting feeds provided with water-fed swivel head which can be connected to suitable water supply. Provision at base for water collection. • Should prepare core from regular and irregular samples (Core size: EX to 100mm). • Clamping arrangement to hold specimens with regular/ irregular shapes to the base of machine. • Water tank: 5 ltr • <u>Supplied with 4 core drilling bits (NX, BX, AX & EX size)</u> 		1			



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5	Point Load Index Tester	<ul style="list-style-type: none"> • Should conform to Ref. Standard - IS:8764 • Point Load Index Tester, is used for determining the Point Load Strength Index of rock cores and irregular lumps which can be tested without any treatment. <p>Salient Features:</p> <ul style="list-style-type: none"> • Rock core specimens can be tested without any preparation. • The results of the test may also be used to predict the uniaxial compressive strength of rock. • With this instrument, a wide range of core sizes can be tested. • The frame has adequate adjustments to align perfectly the loading axis passing through the center of the bearing plates and loading platens at position of the ram of the hydraulic jack. <p>The Equipment consists of:</p> <ul style="list-style-type: none"> • Loading Frame fitted with Hydraulic Jack, hand operated, capacity 100 kN • Load Gauge 0 - 25 kN x 0.25 kN • Load Gauge 0 - 100 kN x 0.50 kN • Conical Loading Platens. 		1			
6	Bomb Calorimeter (Automatic/ semiautomatic, microprocessor based)	<ul style="list-style-type: none"> • Automatic Microprocessor based Bomb Calorimeter with automatic Bucket water filing & Bucket water draining facility. • Temperature Measuring Resolution 0.0001° C • Body of the basic unit should be made of durable, light metal/alloy with suitable finish • Method - Isoperibol • Sample Weight: 0.5 gm - 1.5 gm. • Balance-Built in/interface, Top loading electronic balance with LCD display and auto calibration facilities. • Required weight range: 0.1 gm –1 gm (Max) • Resolution: 0.0001 gm (Minimum), Accuracy: +/- 0.0001 gm (Minimum) • Range: upto 8,000 Kcal/Kg for 1 gm of sample. • Measurement Precision: 0.1 % RSD or better • Corrections - Operator selected option for correcting for Acid, Nitrogen and Fuse wire, Sulphur, Moisture, Ash and Hydrogen. • Working Temperature: upto 25°C. OEM make water handling system should be supplied with main system to work on this temperature or above. • Processing Capacity (Operator Time): between 10 minutes to 15 minutes per test. 		1			



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		<ul style="list-style-type: none"> • Gas Filling Arrangement: Suitable gas filling arrangements with regulator and gauges for line/vessel pressure and all necessary attachments should be provided by the vendor. • Bomb has approval with PED/ ASTM and CE. • Safe life of bomb vessel should be minimum 5000 tests continuously. • Sample Crucible: Metal crucibles with Ni-Cr Alloy • Minimum for 5000 test sample crucibles should be supplied with main instrument. • Power Requirement: 230 VAC +/- 10 %, 50/60 Hz as per Indian condition. • Thick Walled acid resistant and made of high strength with proper insulation • Necessary software for PC operation <p>Accessories (Vendor's Scope):</p> <ul style="list-style-type: none"> • O₂ filled Cylinder (47 ltr) and regulator - 1 no • 3 KVA UPS with ½ hour back up • Pellet Press – 1 no • Compatible laser printer – 1 no[make - Samsung/ HP/Cannon] • Desktop PC for data backup [i3, make - HP/Dell/ Samsung/ Acser] • Analytical Balance 0.1 mg precision, 220 gm capacity [make- Metler- Toledo / Sartorius] – 1 no • RH/Humidity Meter / Hydrometer Testo Make – 2 nos • Room Thermometer HSN-9025 -2 nos 					
7	Automatic Proximate Analyser [TGA]	<p>Automatic Proximate Analyser [TGA] for determination of Moisture, Ash & VM percentage in Coal/Coke/organic & inorganic materials.</p> <ul style="list-style-type: none"> • Furnace temperature range: up to 1000°C or better • Temperature resolution: 0.1°C or better • Temperature accuracy: 2% or (±20°C) or better • Precision: 0.02% (RSD) or better • Balance resolution: 0.0001 gm or better • Testing time: less than 300 minutes or better • No. of samples: 19 or higher • Sample weight: upto 5 gm • Automatic crucible lead opening & closing facility. • Number of Carousels: 2 [Crucibles & Lids] • Carousel material: technical grade high strength ceramic/metal 		1			



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		<ul style="list-style-type: none"> • MOC of the heating part: ceramic/metal • It should comply latest ASTM for Proximate analysis D7582-12 & d7348-08e1 both. • Furnace Rating should be 5KW or more for fast heating rate. • All electronic part of the basic instrument (TGA) should be installed in the basic instruments, no electronic component of basic instrument should be installed in PC. PC will be used to run the system through proper interface & software. • Service facilities: Should be available in Eastern region and service issue should be attended within 48 hours by the authorized service center. One-week instrument operation, calibration and maintenance on-site training at no extra cost from expert guide provided by the supplier. <p>Essential Accessories for Automatic Proximate Analyser [TGA] should be supplied along with the TGA:</p> <ol style="list-style-type: none"> 1. Ceramic crucible with ceramic crucible cover - 20 nos 2. Additional Ceramic crucible with ceramic crucible cover - 20 nos 3. Computer, Monitor with Printer - 1 set 4. Air compressor - 1 no 5. O2 filled Cylinder [47 ltr] with regulator -1 no 6. N2 filled Cylinder [47 ltr] with regulator – 1 no 7. Servo Stabilizer 10 KVA - 1 no 8. Application software for windows system - 1 no 					
8	Muffle Furnace	<p>High Temp. Chamber Furnace: ‘DIGITAL’ for determination of Ash & VM percentage in coal as per IS1350 (P-1), 1984 & ASTM Construction:</p> <p>Outer body is made of heavy type angle structure of double wall body and jacketed by heavy mild steel sheet and finished in rust proof powder coated. One peeping hole into the door and two number holes at the back of the furnace one for the thermocouple and other for ventilation of gas and fume outlet. Furnace inner chamber is made of high alumina refractory tiles insulated by Ceramic blanket / High Alumina. Hinged full swing outside open system door will be provided with insulated plug.</p> <p>Heater:</p> <p>6 nos. non-metallic silicon carbide heating elements are fitted horizontally on top side of the inner chamber and connected by clamp and tape.</p>		1			



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		<p>Control: IS/ASTM requires heating to be controlled by Microprocessor based PID programmable digital temperature controller cum indicator and sensed by Pt/Pt-Rh type thermocouple. NABL calibration certificate of digital controller shall be provided with NPL/ERTL traceability.</p> <p>Control Panel: Control Panel is designed with i) PID programmable AUTO TUNE Controller, ii) MAIN Switch, iii) Rotary Selector Switch, iv) Ammeter, v) Voltmeter, vi) Thermocouple (Pt-Pt/Rh), vii) MAIN & LOAD Lamp, viii) Thyristor Power Drive, ix) M.C.B. as safety cut-off.</p> <p>Technical Specification:</p> <ul style="list-style-type: none"> • Inner Chamber Size :15cmx15cmx30cm (W x H x D) • Max Temperature: 1000°C • Working Temperature: 950°C Continuous • Temperature Display: DIGITAL (Scale 0 - 1000°C) • Accuracy: $\pm 1^\circ\text{C}$ • Heater Rating: 4 – 6 KW • Power: 230V $\pm 5\%$, 50Hz AC • Heating Element: Silicon Carbide Rod • The instrument will be supplied with 6 nos of VM crucibles (with lid & plunger), 6 nos of Ash crucibles (50ml), operation manual, 3 core mains cable and plug top. 					
9	Humidity Chamber	<p>Humidity Chamber with digital Temperature indicator cum Controllers. Triple walled construction with forced air circulation system by motorized blower. Inside wall made of stainless steel. Outside wall of mild steel with rust resisting spray paint middle wall is of G.I./M.S. sheet. Provided with outer double walled insulated door and inner full view Transparent glass door. Water level gauge assembly to maintain water level of the water reservoir inside the cabinet.</p> <p>The chamber is automatically illuminated as soon as the outer door is opened. Humidity in the Chamber is obtained by steam injection system and humidity is controlled by humidity controller. There will be a peep hole with cover at the middle side of the cabinet to facilitate probe insertion at the time of calibration.</p> <p>The Humidity & Temperature will be controlled and sensed by FUJI/equivalent direct reading microprocessor based Digital Humidity</p>		1			



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&Temperature Controllers in which Humidity & temperature can be set as per requirement in conjunction with HONEYWELL transmitter sensor with temperature & humidity combined input. The Chamber is heated by Nickel Chromium air heaters and below ambient temperature is attained with mechanical refrigeration by an ISI marked hermitically sealed compressor unit. Control panel will be fitted at the side of cabinet with proper & easy maintenance facility & consist of digital temperature controller cum indicator, Energy regulator for Heat control & blower ON/OFF cycle, Load indication lamp, ammeter & MCB.

Technical Note:

- Humidity & temperature control cabinet will have ultra-low vibration.
- It will have high density mineral wool insulation/PUF insulation
- The machine will be protected from overheating by over temperature limiter switch
- It will be supplied with an external voltage stabiliser for high voltage protection.

Technical Specification:

- Inside Chamber size: 450 x 450 x 450 mm (WxDxH)
- Volume: 91 ltr.
- Adjustable Rack Position: 3 nos.
- No. of Trays: 5 nos. adjustable
- Display: LED for set value (SV) & process value (PV)
- Temperature Control: Microprocessor based Digital temperature indicator cum controller
- Humidity Control: Digital Humidity Indicator cum Controller
- Temperature Range: 5°C to 70°C
- Temperature resolution: 0.1°C
- Temperature accuracy: $\pm 1^\circ\text{C}$
- Humidity Range: 50% to 85% RH at cool temperature
- Humidity Accuracy: $\pm 3\%$ R.H.
- Drift over 72 hours: Humidity $\pm 3\%$ & temperature $\pm 1^\circ\text{C}$ or better
- Power: 220/230 Volts, 50 Hz 1 PH.

Supplied with operation manual with direct reading microprocessor based Digital Humidity Controller with calibration certificate



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10	Primary Jaw Crusher	<p>As per IS 436 Part I/Section-I – 1964/1996</p> <p>Description: The Jaw Crusher: Single Toggle type is used for primary crushing of Coal, Coke etc. In the Jaw Crusher, the swing jaw moves back and forth working against fixed jaw and formed a V-shaped chamber, wide of top and narrow of bottom and within it the crushing takes place. The crushing of material takes place by the pressure between swing and fixed jaws. The crusher consists of a fabricated body from which the hammer (jaw stock) fitted with swing jaw plate and is suspended from the eccentric shaft mounted on antifriction bearings. The hammer is equipped with bush bearing. The fixed jaw plate is fitted inside the body by side plates. The toggle plate is fitted at the bottom of the hammer and linked with the groove block. The wedge block is placed behind the groove block and by shifting the position of groove & wedge block the bottom gap between jaws can be adjusted. The flywheel and V-pulley are mounted on eccentric shaft at its ends and the crusher is driven by motor through V-pulleys & V-belts.</p> <p>Material of Construction of Jaw Crusher:</p> <ul style="list-style-type: none"> • Body: Made of Steel fabricated • Hammer: Made of C.I. as per IS: 210 FG.200 • Eccentric Shaft: Made of En.8 steel • Toggle Plate: Made of C.I. as per IS: 210 FG.200 • Bearing Housing: Made of Steel fabricated • Jaw Plates: Made of Mn. Steel as per IS: 276 Gr.I (12 to 14% manganese) • Swing Jaw Holder: Made of Steel fabricated • Fly Wheel: Made of C.I. as per IS: 210 FG. 200 • V-Pulleys: Made of C.I. as per IS: 210 FG. 200 • V-Pulley Guard: Made of Steel fabricated <p>TECHNICAL DATA:</p> <ul style="list-style-type: none"> • Mouth Opening Size: 14” x 7” • Feed Size: (-) 250 mm (Dry coal) • Product Size: 50 mm (adjustable) • Material to be crushed: Coal, Coke etc. • Capacity: 250 Kg/hour approx. • Machine speed: 270 r.p.m. • Motor: 15 H.P. 1450 r.p.m. 415/440 volts Ph 50 Hz, TEFC, Squirrel Cage of CROMPTON/ABB make • Starter: D.O.L. Starter of L&T/Siemens make • Complete with motor, D.O.L. Starter & Manual. <p>Scope of Supply: 3 nos of 50 mm sieves and</p>		1			
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		complete machine along with foundation drawing and foundation bolts, Operation & maintenance manual with spare parts list					
11	Jaw Crusher	<p>As per IS 436 Part I/Section-I – 1964/1996</p> <p>Description: The Jaw Crusher: Single Toggle type is used for primary crushing of Coal, Coke etc. In the Jaw Crusher, the swing jaw moves back and forth working against fixed jaw and formed a V-shaped chamber, wide of top and narrow of bottom and within it, the crushing takes place. The crushing of material takes place by the pressure between swing and fixed jaws. The crusher consists of a fabricated body from which the hammer (jaw stock) fitted with swing jaw plate and is suspended from the eccentric shaft mounted on antifriction bearings. The hammer is equipped with bush bearing. The fixed jaw plate is fitted inside the body by side plates. The toggle plate is fitted at the bottom of the hammer and linked with the groove block. The wedge block is placed behind the groove block and by shifting the position of groove & wedge block the bottom gap between jaws can be adjusted. The flywheel and V-pulley are mounted on eccentric shaft at its ends and the crusher is driven by motor through V-pulleys & V-belts.</p> <p>Material of Construction of Jaw Crusher:</p> <ul style="list-style-type: none"> • Body: Made of Steel fabricated • Hammer: Made of C.I. as per IS: 210 FG.200 • Eccentric Shaft: Made of En.8 steel • Toggle Plate: Made of C.I. as per IS: 210 FG.200 • Bearing Housing: Made of Steel fabricated • Jaw Plates: Made of Mn. Steel as per IS: 276 Gr.I (12 to 14% manganese) • Swing Jaw Holder: Made of Steel fabricated • Fly Wheel: Made of C.I. as per IS: 210 FG. 200 • V-Pulleys: Made of C.I. as per IS: 210 FG. 200 • V-Pulley Guard: Made of Steel fabricated <p>TECHNICAL DATA:</p> <ul style="list-style-type: none"> • Mouth Opening Size: 6” x 4” (150 x 100 mm) • Feed Size: (-) 50 mm (Dry coal) • Product Size: 12.5 mm (adjustable) • Material to be crushed: Coal, Coke etc. • Capacity: 250 Kg/hour approx. • Machine speed: 270 r.p.m. • Motor: 5 H.P. 1450 r.p.m. 415/440 volts Ph 50 Hz, TEFC, Squirrel Cage of CROMPTON/ABB make 	1				



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		<ul style="list-style-type: none"> • Starter: D.O.L. Starter of L&T/Siemens make • Complete with motor, D.O.L. Starter & Manual <p>Scope of Supply: 3 nos of 12.5 mm sieves and complete machine along with foundation drawing and foundation bolts, operation & maintenance manual with spare parts list</p>					
12	Double Roller Crusher	<p>The roll crusher is used for intermediate crushing of sample of Iron Ore, Limestone, Quartzite, Manganese Ores and Minerals and the product output of granular with a minimum of fines. The product particle size depends on the gap setting between rolls and the material will crush under pressure between rolls.</p> <p>The crusher consists of two nos. grooved rolls mounted on respective shafts and bearings located in special housings provided with covers and are placed in two nos. stands and can slide over the slots provided in stands. Out of two rolls, one is fixed in place and other is spring loaded to have back motion when any unbreakable material gets into feed. RPM will be reduced by V belt pulley arrangement. The driving of the rolls are achieved by V-pulleys and double edged V-belts and is powered by motor through counter shaft and V pulleys.</p> <p>Material of Construction of Roll Crusher:</p> <ul style="list-style-type: none"> • Roller Shell: Made of Mn. Steel as per IS 276(11 to 14% Manganese) • Shaft: Made of EN8 • Bearing Housing: Made of C.I. as per IS 210 • Stands & Base frame: Made of M.S. • Body: Welded Steel Construction • V-pulleys: Made of C.I. • V-belt: Fenner make • Gear Box: Reputed Make <p>Specification:</p> <ul style="list-style-type: none"> • Size of Roller: 200 mm Dia x 100 mm Face • Roller gap Adjustment: Between the rollers by means of Bolts and Spring loaded screw rod • Roller Speed: 18-22 r.p.m. • Feed Size: (-) 12.5 mm dry material output of Jaw Crusher • Output Size: (-) adjustable from 2-5mm • Motor Squirrel cage: 3 H.P., 1440 r.p.m, 440 Volts, AC, 3 Phase Induction (Crompton/ABB) or equivalent • Capacity: 75 - 80 kg/hr approx. • D.O.L. Starter: L&T / SIEMENS <p>Scope of Supply: 3 nos of 3.35 mm sieves, 2 nos of</p>		1			



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		enamel coated tray (18" ×12") and complete machine along with foundation drawing and foundation bolts, operation & maintenance manual with spare parts list					
13	Disc Pulveriser with automatic feeding system	<p>The machine is designed for grinding and pulverizing dry coal sample of REQUIRED size within a very short period of time. The discs are of HIGH MANGANESE STEEL having sharp teeth at the center with sloping serration and are smooth at the periphery. One of the two discs is fitted at the front door of the grinding chamber. The other disc is rotary and is fitted with the drive motor shaft. The gap between the two discs is adjustable with the help of a manual lever system. The feed materials enter the crushing chamber through a inclined hopper for 100% smooth feeding. The Body & Frame are made of M-S fabricated. The motor drive is mechanized through V-belts & pulley system. The machine is mounted on a sturdy M-S Channel Structure. The instrument is complete with motor, D.O.L. starter, discharge chute, cloth delivery tube, product receiver, operating instruction manual and foundation bolt.</p> <p>Technical Specification:</p> <ul style="list-style-type: none"> • Feed Material: Dry coal/rock • Max Feed Size: (-) 3.35mm to 5 mm adjustable • Product Size: 72 mesh/212 Mic • Output Capacity: 10 Kg/hr. (Approx.) • Motor: 2 H.P., 440 Volt, 3 Ph, 50 Hz • Make: CROMTON/ABB/HAVELLS • Motor R.P.M.: 1440 • Starter: D.O.L. (L&T/SIEMENS) <p>Scope of Supply: 3 nos of 72 mesh and 60 mesh sieves, 2 nos. of metal trays (1000 sq.cm), 2 nos of steel trays (20 cm × 30 cm), 1 no of mortar & pestle (750ml capacity), 50 nos of airtight plastic container (200 ml) and complete machine along with foundation drawing and foundation bolts, operation & maintenance manual with spare parts list</p>		1			
14	Animal Fossils	<ul style="list-style-type: none"> • One sample each (Max. 5 different types) • Properly labeled and packed individually. 		5			
15	Plant Fossils	<ul style="list-style-type: none"> • One sample each (Max. 2 different types) • Properly labeled and packed individually. 		2			

For any query please write hod.miningengg@knu.ac.in



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7. The tenderers are not required to submit hard copies of Technical File (Statutory Cover) or My documents (Non-Statutory Cover). Submission of hard copy of Financial Bid is strictly prohibited and **only be submitted through on line via NIC portal.**

8. Evaluation of the tenders

During the tender evaluation process, the “Technical Bid” will be opened first. Those Bidders who have qualified in respect of the essential & other requirements in “Technical Bid” will be identified and their financial bid will be opened. The financial bid of those Tenderer failing to meet the technical & other requirements laid down in the tender will not be opened and be rejected. **The Tenderer offering the item found suitable and as per the tender specifications will only be selected (Bidders are advised to carefully go through the specification of each item before quoting).** Final selection of the lowest bidder in respect of Financial Bid is subject to further verification. The Financial Bids of only those tenderers who have been considered as Technically Qualified will be opened. If found suitable in the context of above pre-qualification etc, the Tenderer quoting the lowest rate will be considered as successful.

9. Terms & Conditions Regarding Purchase Policy of Tendering Authority:

9.1. Bid Information:

- a) Partial Quotation within the same item will not be accepted and tender will be liable for cancellation.
- b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price but should be indicated separately in the price bid.
- c) The rate quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
- d) Bidder must follow the instruction for filling up BOQ as per Clause 6.3.

9.2. **Evaluation of Quotation:** The Purchaser will evaluate and compare the quotations determined to be substantially responsive stage wise. Firstly, Technical Bid will be evaluated and thereafter Price Bid for technically qualified bidders will be evaluated for selection of vendor.

9.3. **Award of Contract:** The purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive both technically and commercially. Purchaser reserves the right to reject any or all the tender, wholly or partly, without assigning any reason thereof and shall not be bound to accept the lowest bid.

9.4. **Warranty:** The vendor shall be fully responsible for onsite warranty for all equipment, accessories etc. including spares and services for a period of **5 Years**. In all respect, warranty period will start from the date of installation report. **Bidder must upload warranty confirmation certificate showing the warranty period as per the clause in “TECHNICAL DETAILS” folder.**



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- 9.5. **Adequate infrastructural facility:** The bidder/manufacturer should have registered establishment set up in Kolkata/Asansol/Durgapur or its adjacent locality. In addition, the bidder/manufacturer must have authorized service center with adequate numbers of sound service personnel. Representatives from both establishment and service center must be made available within 24 hours after making calls from the Kazi Nazrul University. Documents in support of establishment and service center with pay roll sheet must be uploaded in “TECHNICAL DETAILS” folder.
- 9.6. **Training Facility:** User training regarding the operation of the equipment shall be arranged by the supplier/vendor at no extra cost if required.
- 9.7. **Technical Bid must be submitted along with the copies of OEM license or authorization from the manufacturer.** Document in support of the same must be uploaded by the bidder in “TECHNICAL DETAILS” folder. If the bidder is not the manufacturer/brand owner, proper manufacturer’s/brand’s authorization must be uploaded in the said folder. **Detail technical catalogue must be uploaded with the bid. If catalogue (with technical detail), OEM license or authorization from the manufacturer is not submitted, the bid may be rejected.**
- 9.8. **Credentials:** Documents of previous experience of the job, at least 2 years, must be submitted along with the tender.
- 9.9. **DSIR Certification:** Kazi Nazrul University does not possess the privilege for availing the facility of procuring items at Concessional Customs Duty and without incurring any excise duty as per DSIR certification at present.
- 9.10. **Make & Model: Bidder must mention Make and Model in the Information Sheet as given vide Annexure-I and must send the product details/catalogue/brochure in the “Technical Details” folder.**
- 9.11. **Time Schedule:** The supply and installation work must be completed within 45 days from the date of receipt of the purchase order.
- 9.12. **Validity of offer:** A bidder should spell out in the tender that it shall remain valid for a minimum period of 12 months from the date of opening of the tender and during this period, the bidder shall not be entitled to revoke or cancel its offer.
- 9.13. **Place of delivery:** School of Mines and Metallurgy Building, Kazi Nazrul University, Asansol. Nazrul Road, Kalla More, P.O. –Kalla C. H. Asansol – 713340
- 9.14. **Payment Schedule:** Payment will be made after delivery and satisfactory installation of the items.
- 9.15. **Performance Security:**
- Successful bidder should deposit Performance Security money equivalent to the 10% of the order value in the form of DD/Bank Guarantee immediately before issuing purchase order from the University. Such security will be refunded after completion of the warranty period in normal



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case without any accrued interest. University may forfeit the Security Money in the event of the following circumstances:

- i) Selected bidder withdraws the bid before expiry of its validity but after receipt of the Purchase Order.
- ii) Selected bidder does not accept the order after issuing the same or fails to enter into a contract within validity period of offer.
- iii) Selected bidder fails to supply the items within the scheduled time as specified in the Purchase Order
- iv) If before expiry of the warranty period, the supplied items break down or do not function satisfactorily due to the cause related with the item itself or for its installation and not for any reason caused by the University Authority and the supplier denies to take the responsibility to make the supplied items in order.
- v) In case of any false submission/statement by the bidder.
- vi) In case of any refusal to abide by terms and conditions or refusal to enter into a written agreement as per prefixed terms and conditions.

- 9.16. **Quantity Changeability:** Quantity as stated in the tender document may subject to change at the time of issuing purchase order due to the fund crunch or for other valid reasons.
- 9.17. **Requisite Documents to be submitted:** Bidder must have adequate documents relating to Trade License and updated returns for Income Tax, GST, Audited Statement of Accounts and other documents as sought for under Clause 6.2.II of this tender.
- 9.18. **Turnover Criterion:** Bidder must have average annual turnover of more than Rs.30 lakh in last three financial year ending 2018-19.
- 9.19. **Disposal of Disputes:** In case of any dispute, the University's decision will be treated as the final and conclusive. All legal actions are subject to Kolkata jurisdiction only.
- 9.20. The bidders are required to quote for each item separately in terms of basic price and all other charges. Prices can be quoted in Indian Currency only.

Discretion of the University:

- 9.21. University may take decision about non-purchase of the said equipment even after selection of vendor due to its fund constraints.
- 9.22. University may seek documents from the bidder in addition to the scanned documents sent by them at the time of uploading technical bid for verification and evaluation of tender.
- 9.23. University reserves the right to relax any clause as stated hereinabove for selection of responsive vendor.



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10. Dates & Information:

Sl No	Activities	Date & Time
1	Date of uploading in the e-tender portal of NIC: https://wbenders.gov.in	09.06.2022 (12:55hrs.)
2	Documents download (online)	09.06.2022 (12:55hrs.)
3	Pre-bid query to be received through email (hod.miningengg@knu.ac.in) only till <i>(No further request will be entertained after the scheduled date & time)</i>	13.06.2022 (12:00hrs.)
4	Pre-bid Meeting (online) meeting will be held on online (meeting link will be sent to interested bidder through the revert mail onl)	13.06.2022 (12:30hrs.)
5	Bid Submission Start Date(online)	13.06.2022 (14:00hrs.)
6	Bid Submission Closing Date (online)	28.06.2022 (18:00hrs.)
7	Bid Opening Date (online) – Technical Bid	01.07.2022 (12:30hrs.)
8	Date of uploading list for technically qualified bidder (online)	To be notified
9	Date of opening of Financial Bid	To be notified
	Date of uploading of list of bidders along with the approved Rate	To be notified

11. Opening the financial bid as per schedule will BE NOTIFIED LATER ON.

Financial bid can be seen & accessed by the bidder through the NIC Portal online after opening of financial bid on line. No objections raised by any Bidder in this respect will be entertained by the University. No informal tender will be entertained in the Bid further.

12. During the scrutiny, if it comes to the notice to tender inviting authority that the credential or any other paper found incorrect/manufactured/fabricated, that bidder would not be allowed to participate in the tender and that application will be rejected outright without any prejudice.

13. The Tender Selection Committee reserves the right to cancel the tender due to unavoidable Circumstances and no claim in this respect will be entertained.

Sd/-

Estate Officer (Addl. Charge)
Kazi Nazrul University

Copy to:

1. The Registrar, KNU;
2. The Finance Officer, KNU;
3. The HoD, Mining Engineering, KNU;
4. The Deputy Registrar, KNU with a request to publish the notice in two daily newspapers;
5. The Development and Planning Officer, KNU;
6. The System Admin, KNU with a request to upload on the website for wide circulation;
7. PA to the Vice Chancellor for kind information to the Hon'ble Vice Chancellor



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Annexure I

FURNISHING BASIC INFORMATION (To be furnished in the Company's official letter pad)

1	Name of the Bidder	
2	Address for Communication	
3	Contact Number(s)	
4	E-mail ID	
5	Trade License No.(Please enclose copy of Trade License)	
6	PAN(Please enclose copy of PAN Card)	
7	GST No.(Please enclose copy of GST)	
8	Do you have previous experience for supplying similar nature of Items at Educational Institute of Higher Learning (Please enclose copy of purchase order & user list, if yes)	Yes/No(Please put tick mark)
9	Annual Turnover as per Audited P/L ACCOUNTS &BALANCE SHEET	2018-19: Rs..... 2019-20: Rs..... 2020-21: Rs..... Average Annual Turnover: Rs.....
10	Status of the bidder(Please enclose copy authenticating your status)	Manufacturer/Dealer/Distributor/Selling Agent/Stockiest (Please put tick mark)

(Signature of authorized person with seal)



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Annexure II

APPLICATION FOR TENDER

(To be furnished in the Company's official letter pad with full address and contact no, E mail address etc)

To
The Registrar
Kazi Nazrul University, Asansol

Sub: Tender for the supply of various laboratory instruments of Mining Department

Ref: Tender No.....dated.....

Sir,

Having examined the pre-qualification & other documents published in the Tender No..... dated, I/we hereby submit all the necessary information and relevant documents for evaluation :

1. That the application is made by me/us on behalf of.....in the capacity of duly authorized to submit the offer. The authorization letter from the company is attached in Annexure III.
2. We accept the terms and conditions as laid down in the tender document vide Clause 9 and declare that we shall abide by it throughout the tender period including its extensions, if any.
3. We have gone through the Tender Document thoroughly and quoted the tendered items keeping in mind all sorts of information as furnished in the tender document including Corrigendum/Addendum as published from time to time
4. We are offering rate for the following item /items and assured supply to the Kazi Nazrul University
5. In the event of being selected, I will make the supply within the stipulated period excepting the condition which is beyond our control.

Date:

Signature and name of applicant including title and capacity in which application is made.

Contact no:

E-mail address:

Postal Address:



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Annexure III

(Authorization letter in favour of the applicant (other than Managing Director/Proprietor/Partner) from the competent authority)

(To be furnished in the company's official letter pad with full address and contact no, E mail Address etc.)

(TO WHOM IT MAY CONCERN)

This is to certify that Mr. (Name), Employee of this organization as (Official Designation) is hereby authorized to submit tender online, Vide Ref. No., datedon behalf of the Organization.

Signature of the Authorized Person.....

Signature of Mr.....is hereby attested.

Signature of the competent authority with Seal



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ANNEXURE IV

(Affidavit Proforma)

(To be furnished in Non – Judicial Stamp paper of appropriate value duly notarized)

I, Sri/Smt..... the Managing Director/Proprietor (etc.)of the firm.....
(Name of the firm) at (address)..... do hereby solemnly affirm and declare as follows:

1. That I have not ever been convicted of any offence making myself liable to be disqualified to supply of Instruments/ Equipment's/ or other items to any Govt. or Govt. undertaking Organization/Institution in the State of West Bengal or other State or States.
2. That no case is pending against me or against my firm in any criminal court of law to supply of Instrument's/ Equipment or any other items to the Govt. or Govt. undertaking Organization/Institution in the State of West Bengal or other State or States (If any case is pending, state the details).
3. That, I also declare that if any information subsequently found incorrect or false will it automatically render the tender submitted by me cancelled and make me liable for penal/legal action as per law of the country .
4. That my concern has not yet been declared bankrupt by any banking or money lending agency duly licensed by RBI nor has it been considered doubtful by any Government concern so far as the solvency of the organization is concerned.
5. That I do further affirm that the statements made by me in this tender are true to the best of my knowledge and belief and all the documents attached are genuine & correct.

Deponent(s)



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ANNEXURE V

(Affidavit Proforma)

(To be furnished in Non – Judicial Stamp paper of appropriate value duly notarized)

DECLARATION ON KNU

I, the undersigned, do hereby declare that on behalf of my organization, I will comply all the formalities that are required to be complied as per KNU and I will observe all clauses of the KNU (including Terms & conditions). In case of any non-observance of any clause(s), we will be bound to follow the decisions taken by the Kazi Nazrul University for taking decision related with the tender.

Full signature of the Person (Designation with Seal)

Date:

Place: