



**NETARHAT RESIDENTIAL SCHOOL**  
**NETARHAT**

(An Autonomous Institute under Ministry of School education & literacy Dept ,Govt. of Jharkhand)

**VERY SHORT TENDER NOTICE**

Enquiry No- 284

Dated- 15.07.2016

**Sealed Quotations are invited from reputed Parties/Company/Authorized Distributors/Authorized Dealers to purchase Equipments, Chemicals , Glassware's etc for Mushroom Project at Netarhat Residential School, Netarhat.**

**TERMS & CONDITIONS**

1. The Quotation should be addressed to the "Principal", Netarhat Residential School, Netarhat, Latehar and should reach on or before 20.07.2016 upto 11.00 a.m. Quotation should be sent through Post/Courier/By hand. The tender will be opened on 21.07.2016 at the School campus on 11.00 a.m.
2. Quotations without any erasures and overwriting must be submitted in sealed cover super scribing Enquiry No. and the due date failing which, quotation may be ignored.
3. **Prices-** The rates quoted should be inclusive of all packing, forwarding, transportation sales tax, freight and insurance charges and should remain valid for our acceptance for a minimum period of 60 days from the due date of opening of the quotations. The quotation should be NRS consignee's site basis i.e. Netarhat Residential School, P.O- Netarhat, District- Latehar. No hike/change in prices at any stage after the submission of quotations will be allowed by the School's management.
4. Manufacturer's / Supplier's name of company of origin of the materials offered must be clearly specified. Complete details of illustrated literatures/or drawings, if any, must accompany all quotations.
5. The School will not entertain requests for revision in prices once quoted for whatever reason after the Quotations are opened during the period of contract.
6. **Payment Terms-** 100% Payment will be made within 30 days after successful completion of the work asked in the tender. Triplicate copy of invoices must be submitted along with VAT and Income tax deposition certificate. In case the vendor does not provide VAT deposition certificate after billing date **the VAT amount deducted @ 4% as per JVAT rule 2005 section 45.**
7. It should be mentioned specifically whether price quoted includes all taxes and duties. Sales tax and/ or other duties legally intended to be claimed should be distinctly shown in the quotation.
8. Only experienced suppliers will be entitled to quoted this tender.
9. **Work Completion-** The Supplier shall supply the equipments/chemicals etc within 20 days from the placement of the Purchase order. The quantity of the equipments/chemicals asked in the Tender is tentative; however it may marginally increase/decrease at the time of placing of order.
10. **Documents required-** The Firm/Vendor/Company/Dealer/Distributor has to provide following documents along with the quotation:-
  - a) VAT/CST Registration Certificate should be above commodity.

- b) Income Tax Registration Certificate.
  - c) Authorization from Government agency if any.
  - d) Work order if any.
11. The School reserves the right to accept or reject any quotation without assigning any reason thereof. No correspondence in this regard will be entertained.
  12. No quotation will be accepted after the due date and time.
  13. The firm must mention the model number along with brand name, drawing and Picture/Snapshot of the item asked.
  14. The firm have to deposit Rs. 500.00 as a tender fee through Cash/Demand draft favoring of Principal, Netarhat Residential School payable at SBI Lohardaga Branch.

### **Details of Equipments, Chemicals , Glassware's etc for Mushroom Project**

<b>Equipments</b>			
<b>Sl.No</b>	<b>Equipments</b>	<b>Specification</b>	<b>Quantity</b>
1	<b>BOD Incubator</b>	<p>Construction Std. Model Inner SS 304 &amp; outer Prime GI, Powder coat. Triple walled as above finish, gap filled with Glass wool/PUF insulation inner full view Plexiglas Door, outer metallic door with magnetic gasket. Air circulation for uniform temp. Castor Wheel for easy movability. Illumination Chamber illuminated with lamp, illumination switch on control panel at extra</p> <p>Cooling Hermetically Sealed Compressor &amp; System mounted at top/bottom.</p> <p>Temp. Range + 5<sup>0</sup>C to 60<sup>0</sup>C Resolution 0.1<sup>0</sup> C</p> <p>Temp. Accuracy □ 0.5<sup>0</sup>C or better.</p> <p>POWER 230 V, AC, 50/60 Hz, Mains.</p> <p>Control Microprocessor Based Controller with software lock, 0.1<sup>0</sup> C resolutions.</p> <p>Size - 18" L X 18" W X 18" H,</p> <p>Capacity- 3 CFT / 90 LTRS, 2 Slave</p>	01
2	<b>Laminar Flow</b>	<p>Air Cleanliness Class:- US Standard 209 E Class 100 &amp; Japanese Standard JIS B 9920 &amp; 9921</p> <p>Main Body Construction Siemens Grey / SS:-</p> <p>18 gauge Electro-galvanized steel oven backed epoxy powder – coated. S. Steel ( SS 304 grade) Matt finish. working table top of S. Steel satin finish; side acrylic panels; Fluorescent tube light ; U.V. Light &amp; Pressure differential Manometer; castor wheel for ease movement.</p> <p>Main Filter – Efficiency ratings:- EU 13 gr Mini Pleat HEPA (99,997% @ 0.3 μm )</p> <p>Pre-Filter:- Disposable &amp; washable polyester with 95 % @ 5 /10 μm – EU 3 rated.</p> <p>Air Flow:- Appx. 90- 100* FPM 20</p> <p>Power Supply:- 230 / 440 V, AC, 50 Hz, AC Mains only.</p> <p>Motor Blower/s:- Custom designed Motor blower assembly/ies with required CFM</p> <p>Noise Level:- &lt; 65 dB on A Scale.</p> <p>Vibration Level:- &lt; 2.5 micron.</p> <p>Illumination Level:- 125 ft. candles.</p> <p>Size:- 2 x 2 fit, laminated</p>	01
3	<b>Autoclave</b>	AUTOCLAVE VERTICAL: Inner body is made of heavy gauge stainless steel welded (with outer cover) ; the lid & the ring are made of stainless	01

		<p>steel plate. The lid heavily polished &amp; is fitted with pressure gauge, safety valve &amp; steam exhaust valve &amp; safety valve is set to blow of 20lb./sq.inc to remove excess steam &amp; maintain constant pressure. a molded single piece rubber gasket is fitted in the ring to ensure tight joints, outer cover made of polished stainless steel; with CI legs; fitted with immersion water heater/s &amp; foot lifting arrangement, including SS wire basket.</p> <p>Operating Temp:- 121° C (corresponding to 15 psi)</p> <p>Capacity:- 100 Lit</p> <p>Size:- 45inch Dia X 60 inch Depth</p> <p>Rating KW:- 4</p> <p>Operating and Display Range:- upto 121°C and 134°C Resolution 0.1° C</p> <p>*Pt 100 sensor, enabling precise monitoring.</p> <p>*Low water level alarm and cut off.</p> <p>*Water level indicator.</p>																							
4	<b>Hot Air Oven</b>	<p>Purpose :-Designed, fabricated to suit various application in Laboratory.</p> <p>Door:- Insulated door with latch, catch and quality hardware used.</p> <p>Trays:- Wire mesh trays; removable.</p> <p>Insulation:- Thermal Insulation of sufficient thickness.</p> <p>Heating :- Low wattage density; works on black heat, long lasting S.S. tubular</p> <p>Air Circulation Forced Air Draft through Motorized blower, blowing in Air from bottom</p> <p>Control:- Micro. PID Controller; Auto Tune, LED Display, 0.1°C resolution with suitable sensor</p> <p>Gasket:- Silicon Gasket</p> <p>Tamp. Range :- Ambient + 5°C to 180°C ~ 250°C ; ambient conditions ≤ 25°C</p> <p>Accuracy:- ≤ + 1° C or better (with PID Controller) – Upto 50° C set temp ≤ + 2.0° C</p> <p>Safety:- Safety Thermostat for safety against overshoot; Safety Controller at extra.</p> <p>Power:- 230 V, 50 Hz, Single Phase (larger models / Big /High temp unit – 440 V, 3 phase)</p> <p>Inner Size:- 18x18x24 inch.</p> <p>No of Tray:- 2 no</p> <p>Capacity: 90- 100 lt</p>	01																						
5	<b>Fridge Double door 4-5 STAR, INVERTER TECHNOLOGY</b>	<p>4-5 Star Rating, Smart Inverter Compressor, Multi Air Flow, Power Cut Evercool, Smart I-Micom</p> <table border="1"> <tr> <td>Capacity (Litre)</td> <td>335-360</td> </tr> <tr> <td>Star Rating</td> <td>4-5</td> </tr> <tr> <td>Cooling Technology</td> <td>Multi Air Flow</td> </tr> <tr> <td>Superchill</td> <td>Yes</td> </tr> <tr> <td>Works without Stabilizer</td> <td>100V-290V LVS</td> </tr> <tr> <td>Refrigerant</td> <td>Ecofriendly Refrigerant</td> </tr> <tr> <td>Temperature Control</td> <td>Smart I-Micom</td> </tr> <tr> <td>Compressor</td> <td>Smart Inverter Compressor</td> </tr> <tr> <td>Height (mm)</td> <td>1700</td> </tr> <tr> <td>Width (mm)</td> <td>600</td> </tr> <tr> <td>Depth (mm)</td> <td>685</td> </tr> </table>	Capacity (Litre)	335-360	Star Rating	4-5	Cooling Technology	Multi Air Flow	Superchill	Yes	Works without Stabilizer	100V-290V LVS	Refrigerant	Ecofriendly Refrigerant	Temperature Control	Smart I-Micom	Compressor	Smart Inverter Compressor	Height (mm)	1700	Width (mm)	600	Depth (mm)	685	01
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6	<b>Electric Balance</b>	100 kg capacity Rugged construction suitable for school, gym, sports. Stainless Steel Pan. LED Display. Large LCD display. Battery backup. Storage of weights in memory upto 100 weights. Multiple weighing units Gram, Kilo gram, pound <table border="1" data-bbox="505 457 1175 562"> <tr> <td>Capacity</td> <td>100kg</td> </tr> <tr> <td>Readability</td> <td>10g</td> </tr> <tr> <td>Pan Size</td> <td>300x300 mm</td> </tr> </table>	Capacity	100kg	Readability	10g	Pan Size	300x300 mm	01												
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7	<b>Hot Air Dryer</b>	Temperature Range : 930°C / 1150°C working (1200°C)- Temp. Controls : Micro PID controller cum indicator with Sensor. Heating Element : Kanthal - A1 Sensor : Chromel / Alumel. Power : 230 V, 50 Hz, AC Mains Type A : With High temp HFK bricks in door & front portion of muffle. Size:- 30 x 15 x 15	01																		
8	<b>Double Distillation Unit with Distill water softener</b>	<b>Features :</b> <ul style="list-style-type: none"> <li>• System comprising all glass table top horizontal model</li> <li>• System designed to deliver automatic, double distillation output</li> <li>• Unit come mounted on metal stand that is powder coated so as to provide for longer service life</li> <li>• Quartz glass based heater tube</li> <li>• Presence of low water cut off device for operations safety</li> <li>• Comes complete with glass parts</li> <li>• Features electric supply support of 220/230v ac, 50/ 60hz</li> </ul> <table border="1" data-bbox="505 1199 1312 1451"> <tr> <td>Main Body</td> <td>Mild Steel Powder coated</td> <td></td> </tr> <tr> <td>Glass</td> <td>Borosilicate</td> <td></td> </tr> <tr> <td>Heater Load</td> <td>1 KW Each</td> <td></td> </tr> <tr> <td>Heater material</td> <td>Ceramic with Spiral element</td> <td></td> </tr> <tr> <td>Heater Tube</td> <td>Silica Glass</td> <td></td> </tr> <tr> <td>Double Distillation Unit Output</td> <td>1.5Litre/Hr,</td> <td></td> </tr> </table>	Main Body	Mild Steel Powder coated		Glass	Borosilicate		Heater Load	1 KW Each		Heater material	Ceramic with Spiral element		Heater Tube	Silica Glass		Double Distillation Unit Output	1.5Litre/Hr,		01
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9	<b>Gas Stove big with all fittings</b>	Two Burner , High preser	01																		
10	<b>Humidifier</b>	<table border="1" data-bbox="505 1577 1263 1766"> <tr> <td>BODY</td> <td>STAINLESS STEEL</td> </tr> <tr> <td>WATER PRESSURE</td> <td>5Psg</td> </tr> <tr> <td>POWER SUPPLY</td> <td>220-240 VAC/50 Hz</td> </tr> <tr> <td>OPERATING LOAD</td> <td>120W</td> </tr> <tr> <td>WATER CAPACITY</td> <td>5 LITER</td> </tr> <tr> <td>ATOMIZING CAPACITY</td> <td>30-50ml/min</td> </tr> </table>	BODY	STAINLESS STEEL	WATER PRESSURE	5Psg	POWER SUPPLY	220-240 VAC/50 Hz	OPERATING LOAD	120W	WATER CAPACITY	5 LITER	ATOMIZING CAPACITY	30-50ml/min	01						
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11	<b>Heater</b>		02																		
12	<b>Exhaust Fan</b>	3 Blade, smart sucking air with adjustable stand.	02																		

13	<b>Air Condition 2T</b>	2 Ton Split inverter series 5 star rating		01	
		Indoor (mm)(WxHxD)	998 x 330 x 210		
		Outdoor (mm)(WxHxD)	870 x 660 x 360		
		Star Rating	4		
		Noise Level (Indoor)(dB)	18		
		Air circulation (In/Out)(CFM)	424/989		
		ISEER	4.20		
		Cooling(watts)	5275		
		Compressor	Dual Rotary - R410A		
		Tonnage Range	1.5TR		
		Power Input (Watts)	1540		
		Running Current(Amps)	7.0		
		Power Supply(Volt/Phase/Hz.)	220-240 / Single / 50		
		Inverter (Type)	Dual Inverter		
14	<b>Rack 5 shelf each</b>	2.5 feet breath netted		60	
15	<b>Working Platform</b>	6x3 feet, Marble top, steel/iron stand		04	
16	<b>Almira</b>	6x3 tufted steel, with 4-5 slab inside, double lock, adjustable rack		02	
17	<b>Table</b>	6x 4 feet with duel self, steel/ wooden Top, lock available		01	
18	<b>Office Chair</b>	Height Adjustable , Fine racsine body with comfortable fome. Adjustable Back.		01	
19	<b>Chair for staff</b>	Plane Four leg Mattel chair, with fome / plastic seat.		04	
20	<b>Gas Burner Lab</b>			01	
21	<b>Aluminium Dekchi</b>	30-40 lit capacity		01	
22	<b>Dekchi cover</b>			01	
23	<b>Bamboo Tokri</b>			05	
24	<b>Plastic Creates</b>	20-25 kg capacity		10	
25	<b>20 KV STABLIZER</b>	Sl. No.	ITEM	SPECIFICATIONS	
		1	Capacity	20KVA -3 Phase, stabilized at 400V phase to phase	
		2	Input Voltage Range	320V-460V AC-3 Phase. (184-265V AC/Phase)	
		3	Output Voltage	400V ± 1%, 3-Phase (~230V ± 1% / Phase) (Adjustable)	
		4	Frequency	47 - 53 Hz	
		5	Wave from Distortion	None	
		6	Effect of Load Power Factor	Nil	
		7	Input Terminal	3 & 1/2core, 4wire (R, Y, B, &N) and Earth	
		8	Output Terminal	Star/Delta	
		9	Input cable	16mm square COPPER -5meter	
		10	Speed of correction	>=100V/ Sec	
		11	Regulation	± 1.0% from no load to full load	
		12	Ambient Temperature	0 ° to 55 ° C	
		13	Environment	Indoor continuous operation	
14	Type of cooling	Air-cooled			

		15	Control Circuits	Fully Solid State		
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<b>Glassware's</b>			
<b>Sl.No</b>	<b>Glassware's</b>	<b>Specification</b>	<b>Quantity</b>
1	Culture Tube		50
2	Petri dish	100 mm	50
3	Forceps Long		03
4	Inoculation Needle		05
5	Beaker	1000 , 500, 250, 100 ml	5 piece each
6	Measuring Cylinder	500, 100, 50, 25, 10 ml	1 piece each
7	Acid Sucker		1
8	Conical Flask	1000, 500 ml	2 piece each
9	Glass Kip		05
10	Glass Rod		05
11	Brush for Cleaning		02

<b>Chemicals</b>			
<b>Sl.No</b>	<b>Chemicals</b>	<b>Specification</b>	<b>Quantity</b>
1	Calcium Carbonate		25 kg
2	Agar Powder		1 kg
3	Dextrose anhydrous		1 kg
4	Carbendazim		10 kg
5	Formalin		10 lit
6	Sprit		10 lit
7	Non absorbent cotton		2 kg
8	Calcium Sulphate (gypsum)		50 kg

<b>Other Materials</b>			
<b>Sl.No</b>	<b>Other Materials</b>	<b>Specification</b>	<b>Quantity</b>
1	Pollypropaline Bag	24 cm x 18 cm	5 kg
2	P.P.Bag	8 x 10 and 8x12	50 kg each
3	Rubber band	Autoclavable	5 kg
4	Plastic Rope	1 Bundle	
5	Paddy Straw	Small pieces	5 ton
6	Plastic wiring pipe	Autoclavable 1.5 inch	20 feet

**Principal**  
**Netarhat Residential School,**  
**Netarhat**

Copy to –Sri. Ranjan Kumar Singh, HOD, Agriculture Deptt. /Bursar/Accountant/Cashier/  
Stores/ School's Notice Board/ Caretaker / Netarhat Bazar tand .

**Principal**  
**Netarhat Residential School**  
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