

REQUEST FOR QUOTATIONS

Procurement Notice

Purchaser: Principal Investigator, IDP, NAHEP
Krishinagar
University of Agricultural Sciences
Dharwad-580001

Contract title (Name of the Work): **Supply of Equipment for Audio visual up gradation of the Auditorium at UAS Dharwad.**

RFQ No: _____

Date: _____

Applicable Procurement Regulations: World Bank Guidelines January 2011, Revised July 2014

The Government of India has received financing from the World Bank in various currencies towards the cost of the NAHEP Project and intends to apply part of the proceeds towards eligible payments under the contract for which this request for quotations is issued. Principal Investigator, IDP, NAHEP Krishinagar, University of Agricultural Sciences, invites quotations from eligible bidders for the following Goods/Works:-

Sl. No.	Brief Description of the Goods	Specifications *	Quantity (in set)	Delivery Period	Place of Delivery	Installation Requirement if any
1	Audio visual up gradation of the Auditorium	Attached (as per form 2 – Technical specification)	01 Unit	Delivery within 30 days from date of supply order.	Principal Investigator, IDP, NAHEP Krishinagar University of Agricultural Sciences	Installation and commissioning

1. The Bidders may submit Quotations for all items.

2. This Procurement notice includes the terms and conditions applicable to submission of quotations; criteria for qualification, evaluation, and for award of supply order(s); and relevant forms to be filled by the bidders. Implementing Agency has not issued a separate RFQ document for this purchase. The Procurement notice including the terms and conditions etc. can be downloaded free of cost from the website www.uasd.edu. In such cases the bidder would be responsible for ensuring that any addenda available in website is also downloaded and incorporated.
3. Quotations shall be submitted to the address mentioned below on or before _____ hrs. (Indian Standard Time) on. _____, on all working days, duly written on the cover of envelop as **“RFQ Ref. No. _____, Quotation for the Supply of Equipment for Audio Visual upgradation of the Auditorium at UAS, Dharwad**
4. Last date & Time of Bid submission : _____”.

Principal Investigator, IDP, NAHEP
Krishinagar
University of Agricultural Sciences
[Email: krishnarajpu@gmail.com](mailto:krishnarajpu@gmail.com)

The Quotations will be opened (at the same address of quotation submission) on _____ at 15:00 hrs. Late submission of Quotations will not be considered and treated as rejected.

5. If the Purchaser's office happens to be closed on the date of opening of the Quotations as specified, the Quotations will be opened on the next working day at the same time and venue.
6. Other details can be seen in the RFQ document. The Purchaser shall not be held liable for any delays due to postal or any other reasons whatsoever. A Bidder requiring any clarification of the RFQ Document may visit the office of the Purchaser at the address mentioned at para 4 above or by email.

RFQ No:

Date:

Terms and Conditions

1. **Eligibility:** A Bidder (a) shall not participate in more than one Quotation; (b) shall not have conflict of interest as defined in the Bank's Procurement Regulations; and (c) should not have been (i) temporarily suspended or debarred by the World Bank Group in compliance with the Bank's Anti-Corruption Guidelines and its Sanctions Framework.
2. **Clarifications & Amendments:** If the Purchaser receives any request for clarification of this RFQ Document, it will upload its response together with any amendment to this document, on the university portal www.uad.edu for information of all Bidders. Bidders should check on the portal, for any amendments to the terms and conditions.
3. The Quotation shall comprise the following:
 - (a) Letter of Quotation;
 - (b) Delivery Period Offered: List of Goods/Works & Related Services indicating Bidder's offered delivery period in the prescribed Form;
 - (c) Technical Specifications: confirmation that the offered Goods/Works and Related Services conform to the required specifications;
 - (d) Evidence in accordance with Clause 6 establishing Bidder's qualifications to perform the contract, if its quotation is accepted;
 - (e) Performance Statement¹ of supplies of similar goods made during the last 3 years, in the prescribed Format;
 - (f) Complete address and contact details of the Bidder having the following information:

Name of Firm:
Address for communication:
Telephone No(s): Office
Mobile No.:
(E-mail ID)
 - (g) Price Schedule (using the Schedule with the RFQ document)
4. **Quotation Prices**
 - (a) The contract shall be for the full quantity for all items or for full quantity of each item, as specified in the Price Quotation Form.
 - (b) All duties, taxes and other levies payable on the raw materials and components shall be included in the total price.
 - (c) GST and any other taxes, which will be payable on the goods at the time of invoicing in connection with the sale, shall be shown separately. If these are only stated to be extra, such quotations are liable to be rejected. Wherever these taxes are not shown, these will be assumed to have been included in the quoted price.
 - (d) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
 - (e) The Prices shall be quoted in **Indian Rupees only**.
5. **Conformity of Goods:** Bidder shall furnish, documentary evidence that the Goods

conform to the technical specifications and standards, as relevant for example catalogue, warranty/ guarantee etc. of the manufacturer. **Bidder shall attach all brochures and literatures related to the goods mentioned in the RFQ for enabling the evaluation of the quotations.**

6. Qualification of the Bidder:

- (a) Bidder should have supplied goods of similar type (& capacity) up to at least 100% quantity in any one of last 3 years. Details of supplies made during the last 3 years shall be submitted in the specified Proforma. At least 40 % of the quantity in case of equipment offered for supply should have been in successful operation for at least one year as on date of quotation opening.
- (b) Supplies for any particular item in each quotation should be from one manufacturer only. Quotations offering supplies from different manufacturers for the same item in the quotation will be treated as non-responsive.

7. Validity of Quotation: Quotation shall remain valid for a period not less than 30 days after the deadline date specified for submission.

8. Signing of Quotations: The name and position held by each person signing the quotation and related documents must be typed or printed below the signature.

9. Quotation Submission: The complete Quotation as mentioned in para 3 above, shall be filled, signed and submitted along with the Price Schedules that shall be furnished using the Forms available in this document.

10. Opening and Evaluation of Quotations: The Quotations will be opened and Brief of quotation opened will be uploaded on www.uasd.edu. The evaluation of the quotation are

- (a) The Purchaser shall examine the quotation to determine whether the quotation, a) has been properly signed (Clause 8); b) meets the eligibility criteria (Clause 1); (c) conforms to all terms, conditions, technical specifications, warranty/guarantee etc.; and (d) the bidder has accepted the delivery schedule (Purchaser's Requirement Form 1).
- (b) Only Quotations that are substantially responsive to the RFQ document and meet all Qualification Criteria shall qualify.
- (c) The evaluation shall be based on the total price of Goods and Related services at project site including GST and any other taxes, which will be payable on the finished goods at the time of invoicing.

11. Award of contract: The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

- (a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

- (b) The bidder whose quotation is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the supply order (sample form attached).
- (c) 100% Payment shall be made within 60 days after delivery, installation and commissioning of the goods and acceptance certificate issued by the purchaser. Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.
- (d) Warranty/Guarantee: 01 (one) year from the date of commissioning shall be applicable to the supplied goods.

Quotation Forms

Letter of Quotation

The Bidder must prepare the Letter of Quotation on stationery with its letterhead clearly showing the Bidder's complete name and address.

RFQ No.:

Our Reference: No..... Dated.....

To:

Principal Investigator, IDP, NAHEP
Krishinagar
University of Agricultural Sciences
Dharwad-580001

Subject: Supply of.....

Sir,

1. We, the undersigned, hereby submit our Quotation. In submitting our Quotation, we make the following declarations:

- (a) **No reservations:** We have examined and have no reservations to the RFQ Document;
- (b) **Conformity:** We offer to supply in conformity with the RFQ Document and in accordance with the Delivery Schedules specified in the Schedule of Requirements the following Goods and Related Services *[insert a brief description of the Goods and Related Services]*;
- (c) The total price of our Quotation, including any unconditional discounts offered is:
Total price of the Quotation *[insert the total price of the quotation including GST and any other taxes, which will be payable on the finished goods, in words and figures]*;
- (d) **Commissions, gratuities and fees:** We have paid, or will pay the following commissions, gratuities, or fees with respect to the Bidding process or execution of the Contract: *[insert complete name of each Recipient, its full address, the reason for which each commission or gratuity was paid and the amount and currency of each such commission or gratuity. If none has been paid or is to be paid, indicate "none."]*
- (e) **Quotation Validity Period:** Our Quotation shall be valid for the period of 30 days, from the deadline fixed for the Quotation submission;
- (f) **Eligibility:** We meet the eligibility requirements and have no conflict of interest, we are not participating in more than one quotation in this bidding process, and we have not been temporarily suspended or debarred by the World Bank.
- (e) **Fraud and Corruption:** We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in any type of corrupt, fraudulent, collusive, coercive, or obstructive practices.
- (f) **Brouchers and Literatures:** We have enclosed all the brouchers and literatures related to items being notified in the RFQ and being supplied by us.

Yours faithfully,

Authorized Signature

Name & Title of Signatory _____

In the capacity of *[insert legal capacity of person signing the Letter of Quotation]*

Name of Bidder _____

Address _____

Dated on _____ day of _____, _____ *[insert date of signing]*

FORMAT OF QUOTATION

Sl. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate ² at destination in Rs.	³ GST and similar other taxes applicable on finished Goods/ Services	*Total Price per line item at Destination - inclusive of discounts, all taxes and duties	
							In Figures	In Words
1	Audio visual up gradation of the Auditorium	Attached (as per form 2 – Technical specification)	01	Unit				
TOTAL including all taxes and duties								

Note: Evaluation shall be done for all items together

**Payment of GST and other taxes payable for the goods at the time of invoicing, although already included in the total cost, will be at actuals or the rate/amount of these taxes specified in the supply order, whichever is lower.*

We agree to supply the above goods in accordance with the technical specifications for a total contract price (including all taxes and duties) of Rs.(Amount in figures) (Rs..... amount in words) within the period specified in the Request for Quotations.

We also confirm that the normal commercial warranty/guarantee of 12 months from the date of the installation shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf has engaged in corrupt, fraudulent, collusive, coercive, or obstructive practices (as defined in the prevailing World Bank's sanctions procedures) in competing for or in performing the Contract.

We have enclosed all relevant literatures, brouchers of the items specified in the quotation indicating the make of the items and other parameters as desired by the employer.

Signature with seal of the Bidder

PROFORMA FOR PERFORMANCE STATEMENT*

Proforma for Performance Statement (for a period of last 3 years)

RFQ No. _____ Date of opening _____ Time _____ Hours

Name of the Bidder _____

Order placed by (full address of Purchaser)	Order No. and date	Description and quantity of ordered Goods/ equipment	Value of order	Date of completion of delivery		In case of Equipment, state if the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)
				As per contract	Actual	
1	2	3	4	5	6	8

Signature and seal of the Bidder

Purchaser's Requirement

LIST OF GOODS & RELATED SERVICES AND DELIVERY PERIOD

Line Item No.	Description of Goods and Related Services	Quantity	Physical unit	Final Destination(Project site)	Desired Delivery Period for completion of supply from the date of the Contract	Bidder's offered Delivery Period [to be provided by the Bidder]
1	2	3	4	5	6	7
01	Audio visual up gradation of the Auditorium	01	Unit	Principal Investigator, IDP, NAHEP, Krishinagar, UAS, Dharwad	Delivery within 30 days from date of supply order.	

Signature and seal of the Bidder

SUPPLY OF EQUIPMENT FOR AUDIO VISUAL UPGRADATION OF THE AUDITORIUM AT

UAS DHARWAD

TECHNICAL SPECIFICATIONS

Part-A

Supply, installation and commissioning of Air-conditioners to old Auditorium building at UAS Dharwad campus.

Sl. No.	ITEMS	Unit	Qty	Amount (in figures)	Amount (in words)
1	SupplyingTR split Air conditioners suitable for operation on A/C supply single phase 50 Hz 230 V with hermetically sealed compressor with air cooled condenser, motor capacitor and start run capacitors, relay and over load protector internal unit, with one indoor and one outdoor unit The condenser unit will be placed outside the room on the terrace to avoid noise including standard length of suitable size copper tubing covered with insulation tube. (High wall chorded/cordless) suitable capacity 3 core sheathed / PVC copper cable and a battery operated wireless remote unit. 5 star 2 Ton capacity (6.7.3).	Each	8		
2	Open Conduit System				
	Supplying heavy gauge PVC conduit pipe dia mm thick confirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc, and fixing using inverted wood plugs in case of RCC ceiling and RCC wall/ stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. 25 mm dia 2 mm thick (1.1.2).	Mtr	150		
3	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694: confirming to latest amendments.				
	a) 1.5 SQMM (2.3.2)	Mtr	200		
	b) 4.0 SQMM (2.3.4)	Mtr	800		
	c) 6.0 SQMM (2.3.5)	Mtr	100		
4	Supplying and fixing of Metal Socket set of 2pole and earth plugs and socket for incorporating SP and TP MCB (Without MCB). The entire plug and socket shall be mounted in a thermoplastic / powder coated metal box & wired Completely.				
	a) SP & N 20 A (5.45.2)	Each	8		
	b) TP & N 20 A (5.45.3)	Each	8		
5	Supplying of Tower type air conditioners Capacity of 3 Ton Star Rating None Compressor Type Reciprocating, Rotary & Scroll Compressor PERFORMANCE FEATURES Auto Restart, Sleep Timer, Air Flow Direction Wide Angle Airflow FILTERS Catechin and Other Filters Dust Filter CONVENIENCE FEATURES Other	Each	8		

	Convenience Features On/Off Timer; Air Flow Directional Control MODES Dry, Other Modes Economy Mode, Auto Mode OTHER FEATURES Additional Features Three Phase 440 volts 50Hz AC supply Advantage; Anti-corrosive, Fin Copper Condense; Hydrophilic Evaporator Fins; Extended Piping Length; Powder-Coated Outer Body, Fixed and Swing Louvres; Anti-Freeze Thermostat; Cleanable Panel , relay and over load protector internal unit, with one indoor and one outdoor unit. The condenser unit will be placed outside the room on the terrace to avoid noise including standard length of suitable size copper tubing covered with insulation tube. Suitable capacity 3 core sheathed/ PVC copper cable and a battery operated wireless remote unit. etc complete. 3 Ton capacity Tower type.				
6	Installation charges for split type air conditioner with allied works for one indoor and one outdoor unit is to be mounted on suitable Angle Iron support up to 3.0 ton split/cassette type A/C (6.12).	Each	8		
7	Installation charges for Tower type air conditioner with allied works for one indoor and one outdoor unit is to be mounted on suitable Angle Iron support up to 3.5 ton A/C (6.32).	Each	8		
8	Extra for Fabrication supply and fixing of Stand fabricated using slotted angle/L angle of size 6mm x 50mm for mounting outdoor A.C. unit (6.22).	Each	16		
9	Supplying and installation of insulated refrigerant copper tubing of 5/8" and 3/8" with polythene foam insulation 3 core 80 stand copper wiring between indoor and outdoor unit Leak testing oil and gas charging for additional piping length of tube. Tower type AC (6.13).	Mtr.	30		
10	Supplying fixing and wiring earth electrode for grounding of lifts, transformers, DG sets etc. using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm all-round with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts (old SR 2019 6.2).	No	4		
11	Supplying and running GI/Copper conductor for grounding and (along with other wires in conduit system of wiring) using necessary suitable size clamps, nails, guttas/spacers etc. Copper wire. 8 SWG Copper wire (old SR 2019 6.18.6).	Mtr	24		

Part- B

Supplying, installation and commissioning of 62.5 KVA Generators (with foundation and shelter DG) to old Auditorium building at UAS Dharwad campus

Sl. No.	ITEMS	Unit	Qty	Amount (in figures)	Amount (in words)
12	Supplying and drawing Flexible Multicore Cable manufactured with electrolytic grade flexible copper with low conductor confirming to IS:8130-1984 and (Virgin) PVC insulation sheathed suitable for working voltage upto 1100Volts as per IS-694:1990. 8C X 1.5Sq.mm	Mtr.	50		
13	Supplying, installing, testing and commissioning of Diesel Generator set with following specifications. Power rating as per standard reference condition as per-BS 5514 / ISO 3046 / ISO 8528 & IS 1002 / ISO 3046 Generator set specifications. Engine: Diesel generating set are rated at 1500RPM and conform to ISO 8528 specifications. The engines are radiator cooled, four stroke and multi cylinder, conforming to ISO 3046. The scope of supply includes: Electrical starter motor 12V DC Battery charging alternator, Bosch fuel system with mechanical governor, A1 Class. Spin-on lube oil filter, Spin-on dual fuel filter with water separator, Turbocharger, Charge air cooler, Silencer (Hospital grade), Dry type air cleaner, Shutoff coil, Flywheel and flywheel housing, First fill of lube oil and coolant, Safety for low lube oil pressure, Safety for high water temperature, Permissible overload of 10% for one hour in 12 hours of operation Capacity of Fuel Tank: Fuel tank suitable for 8 hours of operation Alternator: Alternator is suitable for operation at 1500 RPM, 415 Volts, 0.8 pf (lag) suitable for 50 Hz, 3 phase, 4 wire systems, conforming to IS/IEC 60034-1. The Alternator is brushless type, screen protected, revolving field, self excited, self regulated through an AVR. The alternator shall have + 1.0 % Voltage regulation (max) in static conditions- IP: 23 protections with insulation class H Mounting arrangement: Engine and alternator are mounted on a common MS fabricated base frame with AVM pads.				
	Control Panel: The control panel is manufactured with 14/16 gauge CRCA sheet and is powder coated for weather-proof and long lasting finish. The control panel consists of the following parts:- PS0500 Controller, Aluminium bus bars with suitable capacity within/outgoing terminals, Indicating lamps for 'Load On' and 'Set Running', Instrument fuses duly wired and ferruled, MCCB of suitable rating with overload and short circuit protections.				
	Genset Controller: microprocessor based generator set monitoring and control system. The control provides a simple operator interface to the generator set, manual and remote start/ stop control, shutdown fault indication, and an LCD hour counter. The integration of all functions into a single control system provides enhanced reliability and performance compared to conventional generator set control systems. This control has been designed and tested to meet harsh environment in which gensets are typically applied. Features, Functions, protections 16 character x 2 line alphanumeric LCD display with LED Backlight.				

	Operator interface, Provide a record of most recent fault conditions. Fault history stored in the control non volatile memory, Provide Alternator Data. Voltage (1 ph or 3 ph line to line and line to neutral voltage, Current (1 ph or 3 ph), kVA (3 ph and total), Frequency, Provide Engine Data, Starting battery voltage, Engine running hours, Engine Temp, Engine oil pressure, Control includes provision for Service adjustment and calibration of DG control functions, Voltage, frequency selection, Configurable input and output set up, Meter calibration, Engine controls, Power Start operates on 12 VDC batteries,- Auto start mode accepts a ground signal from remote devices to automatically start the DG set. The remote start will also wake up the control system from sleep mode.				
	Engine Starting –The control system supports automatic engine starting, Primary and back up start disconnects are achieved by battery charging alternator feedback or main alternator output frequency. Controller provide configurable time delay of 0-300 secs to start after remote start signal and time delay of 0-600secs prior to shut down after stop signal. Sleep mode increase battery life. Configurable current settings from low to minimize current draw when genset is not working. Engine Protective functions include, Configurable alarm output, Emergency stop: Annunciated whenever an emergency stop signal is received by the control. Low lube oil pressure warning and Shutdown, High engine water temp warning / Shutdown, Low coolant temp warning, Sensor failure indication, Low and high battery voltage warning, Weak battery warning, Fail to start shut down, Cracking lockout: Control will not allow the starter to engage or to crank the running engine. Cyclic cranking: Configurable for the number of starting cycle, (1 to 7) and duration of crank and rest periods. Alternator Protective functions includes, - High and Low AC voltage shut down, Under and Over frequency shutdown / warning, Loss of sensing voltage input shut down.				
	Acoustic enclosure: The acoustic enclosure shall be made of 1.6 mm thick CRCA sheets in suitable approved shade and a structural/ sheet metal base frame painted in black. The walls of the enclosure are insulated with fire retardant foam so as to comply with the 75dBA at 1 mtr sound levels specified by Ministry of Environment & Forest. The enclosure has the following features: Specially designed to meet stringent MOEF/ CPCB norms of 75dBA @ 1mtr at 75% load under free field conditions, Two point lifting for easy handling at customer site, Designed to have optimum serviceability, Air inlet louvers specially designed to operate at rated load made on special purpose CNC machines for consistency in quality and workmanship, Powder coated for long lasting service life and superior finish, With UV resistant powder coating, can withstand extreme environment,				
	Use of special hardware for longer life, Insulation material meets exacting IS 8183 specifications for better sound attenuation, Flush styling - no projections, Fluid drains for lube oil and fuel, Fuel filling point inside the enclosure. 62.5kVA (10.1.7).	Set	1		
14	Supply, Erection, testing and commissioning of AMF panel suitable for KVA DG set. The panel is of cubical type base/floor mounting control panel with hinged doors, undrilled bottom gland plate, aluminium Bus Bar with the accommodation for amps 4 pole contactor for alternator with thermal O/L relay,. Amps 4 pole contactor for mains, HRC fuse for short circuit protection, Microprocessor based AMF module with supply failure timer, Restoration timer, 3 impulse automatic engine start/stop logic, Mains/generator voltage,capacity bypass switch and frequency sensing, PCC 1301 controller with water temperature/Lube oil	Each	1		

	pressure/ engine speed, Voltage/ampere/Frequency/ KVA, Running-hour count, No of starts, Fault indication, over /under speed, Fails to start, Low oil pressure, High engine temperature, Under/over voltage, over current, Earth fault relay, with indications for Mains on, Load on Mains, Battery charger on Push buttons AMF module by pass Mode, Battery charger unit with inbuilt Auto/Manual and Flat/Boost facility. Upto 62.5 KVA (10.2.1).				
15	Earth work excavation for cable trench of 0.5 to 0.75 Mtr. Width and Depth upto 1 Mtr including trial pits, depositing on bank upto a lead of 50 Mtr, Supplying and Displaying necessary Danger Boards and Lighting, Using sight Rails and Sign Boards at every 100 Mtr wherever necessary as directed.(54.04) In Ordinary Soil (29.02)	Cmt	20		
16	Cutting of Road surface for cable trenches and disposing of the excavated earth, as directed including Barricading, Danger Lighting then Refilling the Cable Trenches. Tar Road(29.10)	Cmt	10		
17	Rod type of earthing using 40 mm Dia, 3 Mtr long MS rod as ground rod, in earth pit of 300 mm width and 3300 mm depth and using 50x6 mm flat welded to ground rod as terminal & connected to equipment ground terminal using PVC Al wire as specified(54.04)	No	4		
18	Bentonite clay slurry for earthing in 50 Kg Bag(54.05)	Bag	8		
19	GI Grounding pipe, B - Class, 42 mm dia, 2.5 Mtr long, 3.2 mm thick with bolt, nut, GI Strips and washer complete Minimum Weight of GI Pipe: 7.3 Kg(54.01)	No	4		
20	1.1 kV, XLPE or Heat resistant PVC insulated, PVC extruded Inner Seath Armoured LTUG Cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975. 70 Sqmm, 3.5 Core, (18 GI Strips - 4 x 0.8 mm)(32.13)	KM	0.5		
21	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as, HT Cable directed by the departmental staff. LT Cable 35 to 95 Sqmm(31.06)	KM	0.5		
22	Refilling the cable trenches with selected available earth from trench excavation including watering, consolidation in layers of 15 cm. Thickness including depositing of the surplus earth with a lead of 200 Mtr(29.07)	Cmt	20		
23	Supply and laying double walled corrugated (DWC) HDPE Pipe including all necessary connecting Sockets / Couplings / Tees / Bends / End-caps of same materials in existing trench as per IS 14930 part -II suitable for drawing underground cables. HDPE Grade PE80-PN 4.0, 90mm(Civil SR SI.No.6093)	Mtr	50		
24	Supplying and fixing angle iron frame work fabricated out of M.S. angle iron..and M.S. flat ... with bolts, washers etc., and painted with 2 coats of red oxide and then two coats of approved paint. 40x40x6mm(5.41.1)	Mtr	5		
25	Supplying of on load change over switches 4 poles, AC 23A Duty, 415V, 50Hz, AC Supply. With all accessories. (SM Enclosure Sheet Metal Execution) 125 A(5.12.3)	Each	1		
26	Supply and Installation / Fixing / Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent Polycarbonate Lid, shock proof, IP65 (Weather Proof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase / Three Phase Energy Meter in suitable base plate and having a provision for Fuse / MCB cut-out with suitable transparent hinged flap opening for operating MCB along with	Each	1		

	complete tamper proof SEALING facility. 600 mm x 600 mm x 170 mm				
27	Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m. In depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. including breaking of clods complete as per specifications. (P.6/2.3)	Cmt	5		
28	Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @0.57cm machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications (P.13/4.3)	Cmt	2		
29	Providing and laying in position plain cement concrete of mix 1:2:4 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.878cum and fine aggregates @0.459cm machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications (P.13/4.1)	Cmt	2		
30	Providing and constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton peres qm with cement mortar 1:4 masonry (quoin jamb, closer blocks) with solid concrete blocks of size 40x15x20cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. (P.25/5.34)	Sqm	12		
31	Providing and fixing 6mm Bronze Multi wall poly carbonate sheet for Tubular structure. The work including cost of all materials, labour charges, and hire charges of machineries for cutting, welding, grinding and erection equipments, complete as per specification. (P.48/8.27)	Sqm	30		
32	Supply, Installation testing and commissioning of approved make heavy tubes (Class 'C') confirming to as per IS1239 Part - 1 (25mm Nominal bore 4.05mm thick @ 2.97 Kg/m, 32mm Nominal bore 4.05mm thick @ 3.84 Kg/m, 40mm Nominal bore 4.05mm thick @ 4.43 Kg/m, 50mm Nominal bore 4.47mm thick @ 6.17 Kg/m, 65mm Nominal bore 4.47mm thick @ 7.90 Kg/m, 80mm Nominal bore 4.85mm thick @ 10.10 kg/m, 100mm Nominal bore 5.40mm thick @ 14.40 Kg/m, 150mm Nominal bore 5.40mm thick @ 21.20 Kg/m, Such as Tees elbows check nuts unions, Flanger, Nipples etc. including cutting welding, Trending fixing on walls, ceiling (Using 41-Tech pipe/M.S.angle supports work includes two coats of metal primer and two coats of Red enamel paint etc.complete as per drawing, pacifications. Galvanized Iron Pipes 50 mm dia. Complete (363/40.12).	Rmt	18		

Part-C

Upgradation of audio visual & CCTV facility to Auditorium building of College of Community Science, at UAS, Dharwad.

Sl. No.	ITEMS	Unit	Qty	Amount (in figures)	Amount (in words)
33	Supplying and fixing of Dome Camera 4MP 25× Network IR Speed Dome adopts 1/1.8" progressive scan CMOS chip. With the 25× optical zoom lens, High quality imaging with 4 MP resolution, Excellent low-light performance with Dark Fighter, Expansive night view with up to 400 m IR distance technology, Water and dust resistant (IP67) /	No	4		
34	Supplying and fixing of NVR 8 Channel Dimensions LxWxH 30.5 x 30.5 x 30.5 Centimeters, Hard Disk Size 19 Inches Weight 1 Kilograms,80Mbps Bit Rate Input Max (up to 8-ch IP video), 1 SATA interfaces, 1U case,19",Sleek in terms of design Scores high on the aspect of functionality and Designed as per the latest industry standards	No	1		
35	Supplying and fixing of Hard Disk 4TB Storage For 10-15 Days Backup Improve performance with All Frame for upto 32 HD cameras Surveillance storage of 4TB capacity 3.5-inch internal hard drive 64MB buffer size MR	No	1		
36	Supplying and laying of 4 core CC Camera Outdoor wiring with necessary pipe LAN wire and power cable etc. complete MR	Mtr	260		
37	Supplying & Fixing of switch mounting rack with power manager & Cable manager. 4U with 450mm depth(8.4.1)	Each	1		
38	Supplying & Fixing of Laser Projector, LCD, Brightness - 5200 Lumens Resolution - WUXGA (19220x1200) Light Output - 20000 Hrs. Contrast Ration - 3,000,000:1 Audio 1/2 INLED , HDMI 1/2 IN input including Ceiling Mount Kit With 15 Mtr. VGA cable, 15 Mtr. Power cable, 15 mtr. VGA cable, casing & Capping with necessary motor operated projector screen of size 10x12'	No	1		
39	Supplying & Fixing of Projector Screen - 150" (10.9'X6.2')(16:9) Fixed Aluminum frame with black velvet, High contrast Matte White Fabric, screen size 74" height x 131" width Gain : 1.0, View angle >160 °Easy to operate, no accessories needed. Insta-lock device & SRS for reliable & safe operation. Convenient to pull and extend, easy to be adjusted to any intervals. Provision for ceiling and wall mount. Compatible with all projectors technologies	No	1		
40	Supplying & Fixing of Handheld Wired Mic which includes the cardioid microphone, a black XLR 3-pin microphone cable, and a matching black removable windscreen. With high resistance to feedback, enhanced rejection of ambient sound, and low handling noise	No	3		
41	Supplying & Fixing of Wireless Hand Held Microphone Transmitter delivers wireless audio with professional clarity and reliability. Features include auto frequency scan with transmitter setup, exceptional wireless clarity, and patented Audio Reference Companding. Includes SLX2/SM58, SLX4 receiver, microphone clip, rackmount kit, two 1/4 wave antennas, power supply, 2 AA batteries, protective bumpers with 8 screws, vinyl bag, and user guide	No	1		
42	Supplying & Fixing of Wireless lapel / head Microphone -The wireless lapel microphone system has 20 frequencies selection for seamless, interference-free operation. An easy-to-read LCD information	No	1		

	display provides constant monitoring of system operation, Receiver battery condition indicators with low-battery warnings. Nostatic, no drop out with use at a distance of 40-65 feet. With paired ID synchronization for each wireless transmitter and receiver make setup easy				
43	Supplying & Fixing of passive wide band UHF omnidirectional antenna. Greatly improves reception of wireless signal from BLX4R, SLX, QLX-D, ULX-D, UHF-R and Axient Wireless Systems. Omnidirectional dipole reception pattern Includes stand adapter, thread adapter, a 61cm (2ft) coaxial antenna cable, and a 7.6m (25ft) coaxial antenna cable	No	1		
44	Supplying & Fixing of loudspeaker With coaxial two-way drivers, the 150-watt loudspeaker delivers powerful SPL suitable for foreground music — along with premium aesthetics that complement any commercial sound installation. The speaker features a two-way, 8-inch woofer and a center-firing coaxial 1-inch compression driver, delivering a 52 Hz – 20 kHz frequency range. The loudspeaker is surface-mounted and locks onto a hidden Quick Hold U-bracket for fast, secure installation.	No	3		
45	Supplying & Fixing of Amplifier Power rating: 4x 150 W (THD+N < 0.04%, 1 kHz, 4-8 Ω, 70/100V) I-Share Mode Power: 2x 300 W (2-4 Ω, 70/100V) (Each channel pair can be I-Shared), Gain (Low-Z mode): 29 dB, Gain (70V mode): 35 dB, Gain (100V mode): 38 dB, Frequency Response: 4-8 Ω: 20 Hz – 20 kHz (+/- 1 dB @ 1 W); 70/100V: Same as 4-8 Ω with 50 Hz high-pass filter Channel Separation (Crosstalk): > 80 dB @ 1 kHz, > 65 dB @ 20 kHz Dynamic Range: ≥ 100 dBA (at rated power). The Amplifier 150 watts per channel and works seamlessly with loudspeakers and controls to create complete commercial sound systems Built-in DSP, including Smart Bass processing, routing, level control, delays, limiters, loudspeaker EQs, plus input and area EQs. the amplifier configuration utility facilitates setup with an integrated web server and intuitive browser-based UI, including real-time control with signal and thermal monitoring Opti-voice paging provides a smooth transition between music and announcements	No	1		
46	Supplying & Fixing of Cables and Connectors	No	1		
47	Installation Charges	No	1		
TOTAL					
GST / OTHER TAXES					
GROSS TOTAL					

Gross Total Cost: Rs.

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs.....(amount in figures) (Rs..... amount in words) within the period specified in the Invitation for Quotations.

We also confirm that the normal commercial warrantee/guarantee ofmonths shall apply to the offered goods.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Further we also certify that, none of our kin / relatives are employed in UAS, Dharwad.

Signature of Supplier

Yours faithfully

- 1) **(S. C. Mirajkar)**
Executive Engineer and Nodal Officer
Procurement (IDP)
UAS, Dharwad.

- 2) **(Dr. S. A. Desai)**
Professor and Nodal Officer
Procurement (IDP)
UAS, Dharwad.

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