



**KAMLA NEHRU INSTITUTE OF TECHNOLOGY,
SULTANPUR (U.P)- 228118**

Phone & Fax - 05362-240454

**INVITATION FOR QUOTATIONS FOR
CIVIL WORKS UNDER SHOPPING PROCEDURES**

To

Dear Sirs,

Sub : INVITATION FOR QUOTATIONS FOR CIVIL WORKS

1. You are invited to submit your most competitive quotation for the following works:-

Brief Description	Approximate value of Works (Rs.)	Period of of the Works Completion
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As per Annexures attached

2. Government of India has received a credit from the International Development Association (IDA) in various currencies towards the cost of the TEQIP-II Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3. The **Director KNIT Sultanpur(UP)**, invites bids for civil works detailed in the Annexures
4. Bidding documents may be downloaded from the institute website www.knit.ac.in
5. Bid must be submitted along with earnest money (as specified up table) in shape of demand draft or cash receipt in favor of **Director KNIT Sultanpur(UP)**,
6. To assist you in the preparation of your quotation, we are enclosing the following:
- iii. Detailed Bill of Quantities, iv. Technical Specifications;
- v. Instructions to Bidders
7. Bids must be delivered to the office of the world bank TEQIP-II Cell , **Coordinator (Procurement), WBTEQIP-II, K.N.I.T. Sultanpur-228118 (UP)** before the stipulated date and time on OR before 15:00 hrs on date 25/02/2015 and will be opened on same day at 15:30 hrs in the presence of the bidders who wish to attend in the committee room of the institute.

We look forward to receiving your quotations and thank you for your interest in this project.

Sd/-

Coordinator (Procurement)

On behalf of the

Director, K.N.I.T.Sultanpur(UP) – 228118

Instruction to bidders

1. Quotation shall remain valid for a period not less than **90 days** after the deadline date specified for submission.
2. The work must be completed in all respect within specified period from the date of award of work.
3. Each downloaded duly quoted package should be submitted along with nationalized/scheduled bank demand draft of appropriate amount as an Earnest money deposit (EMD) in favour of “Director, K.N.I.T. Sultanpur (UP), (@2% for each package), else bid(s) is/are liable for rejection in toto. **Separate draft of EMD** should be for each package.
4. Rate must be quoted item wise only. Rate quoted in Percentage or in other form will not be considered. All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
5. The contract shall be for the whole works as described in the Bill of quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
6. 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. Any quotation received after the deadline for submission of quotations will be rejected and returned unopened to the bidder.
7. Each bidder shall submit only one quotation. The rates should be quoted in Indian Rupees only.
8. Qualification of the bidders – The bidder shall provide qualification information which shall include.
 - (a) Total monetary value of civil / Refurbishment works performed on last three years (with a copy of such proof) should not be less than Rs.5.0 lacs.
 - (b) Income tax clearance certificate of PAN No. from the concerned IT circle.
 - (c) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case.
 - (d) should possess valid electrical license for executing building electrification works (in the event of the works being sub - contracted, the sub-contractor should have the necessary license);
9. The quantity of work may be vary up to $\pm 20\%$.
10. The bidder is advised to visit the site of work at his own expense and obtain all information that may be necessary for preparing the quotation.
11. The bidder shall seal the quotation in an envelope addressed to the **Director KNIT Sultanpur(UP)**. The envelope will also bear the following identification:-

Quotation for _____ (Name of the Contract)
Do not open before _____ (time and date of quotation opening).
12. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.
13. Payments to the party for the refurbishment/repairing work may be released in the following manner:-

Payment of 50% amount of the award of contract can be made after 75% of the total work executed
14. Within 15 days of receiving letter of acceptance, the successful bidder shall deliver the performance security (either a bank guarantee or a bank draft in favour of the **Director KNIT Sultanpur(UP)**.) for an amount equivalent of 3 % of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work.

15. The work must be completed within the time allowed for the same. In case of any delay the contractor has to pay compensation for the delay @200/- per day subjected to the maximum 10% of the value of total work. The date of completion can be extended by the approval of **Director KNIT Sultanpur(UP)** on proper justification.
16. The “Period of Maintenance” for the work is six months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.
17. The **Director KNIT Sultanpur(UP)** reserve the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to the award of contract.
18. The “Defects Liability period” for the work is six month from the date of completion. During this period the contractor will be responsible for rectifying any defects in work free of cost to the Employer.
19. Rest condition will be as for P.W.D. Norms.
20. All legal disputes are subjects to the jurisdiction of **Sultanpur (UP)** court only.

Sd/-

Coordinator (Procurement)

On behalf of the

Director, K.N.I.T.Sultanpur(UP) – 228118

QUOTATION

Description of the Works:

To:

Subject : Construction of.....

Reference : Letter No.....dated.....from.....

Sir,

We offer to execute the Works described in your letter referred to above in accordance with the Conditions of Contract enclosed therewith at percentage above / below the estimated rates, i.e., for a total Contract Price of -

Rs.** _____ [in figures]

Rs. _____ [in words].

This quotation and your written acceptance of it shall constitute a binding contract between us. We understand that you are not bound to accept the lowest or any quotation you receive.

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

We hereby confirm that this quotation is valid for 90 days as required in the Instructions to Bidders.

Yours faithfully,

Authorized Signature : _____ Date: _____

Name & Title of Signatory: _____

Name of Bidder : _____

Address : _____

* To be filled in by the Employer before issue of the Letter of Invitation.

** To be filled in by the Bidder, together with his particulars and date of submission at the bottom of this Form.

LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK
(LETTERHEAD OF THE EMPLOYER)

Dated : _____

[Name and address of the Contractor]

To : _____

Dear Sirs,

This is to notify you that your Quotation dated _____ for execution of the _____ for the contract price of Rupees _____ [amount in words and figures], is hereby accepted by us.

You are hereby requested to furnish performance security for an amount of Rs. _____ (equivalent to 3% of the contract price) within 15 days of the receipt of the letter. The Performance Security in the form of Bank guarantee or a Bank draft in favour of **Director KNIT Sultanpur(UP)** shall be valid till the expiry of the period of maintenance i.e. upto _____. Failure to furnish the Performance Security will entail cancellation of the award of contract.

You are also requested to sign the agreement form and proceed with the work not later than _____ under the instructions of the Engineer, _____ and ensure its completion within the contract period.

With the issuance of this acceptance letter and your furnishing the Performance Security, contract for the above said work stands concluded.

Yours faithfully,

Sd/-

Coordinator (Procurement)

On behalf of the

Director, K.N.I.T.Sultanpur(UP) – 228118

Format of certificate

Certified that the works up to ----- level in respect of construction of -
----- at ----- have been executed in accordance with the approved
drawing and technical specifications.

Signature

Name & Designation

(Official address)

Place :

Date :

Office seal

Kamla Nehru Institute of Technology, Sultanpur

Civil Works

Package Code- TEQIP-II/UP/UP2G05/54

PackageName

TEQIP-II/UP/KNIT/CivilWorks/Shopping/01

Estimated Total Cost Rs. 1500000=00			
Earnest Money Deposit (EMD) – Rs. 30000=00			
Period of Completion of Work-90 days			
S.No.	Name of Equipment	Specification	Quantity
1	Refurbishment work at CSA Hall	S/F of vitrified tiles, S/F of split AC, Electrification and repairing at CSA HALL	01
2	Refurbishment work at TEQIP Office	Al. section work on door,window, S/F of split AC,Plastic Painting, PVC flooring etc.	01
3	Refurbishment of Toilet block in Academic Area	Tile on Floors and Walls, replacement defective and non functional items etc.	01

Bill of qty for Supply and fixing of vitrified tiles, S/F of split A.C., Electrification and repairing at C.S.A. Hall.

Sr.No.	Item	Qty	Rate	Amount (Rs.)
1	Providing & laying of 8 to 10 mm thick ivory or light shade Vitrified tiles of 600 mm x 600 mm size in flooring or skirting laid with 1:3 cement mortar (1 Cement: 3 Coarse sand) finishing with cement slurry & with pigment grouting & polishing complete I/C supply of all materials, labour T& P required for proper completion of work incising base concrete 1:2:4: (1 Cement: 2 coarse sand: 4grit 20mm) average base thickness 40mm etc. Including dismantling of old flooring of the hall.	350 ^{m2}		
2	15mm cement plaster in repair in 1:3 as (N.B.O. 17.59 (i))	10 ^{m2}		
3	White washing two coat as (N.B.O. 18.12+18.13)	945.37 ^{m2}		
4	Oil bound distempering two coat as (S.I. 650+650)	690.39 ^{m2}		
5	Finishing wall with water proof cement paint two coat (S.I.661+662)	131.91 ^{m2}		
6	Enamel painting two coat as (S.I. 642+643)	172.95 ^{m2}		
7	S/F Split A.C. (2 Ton) With Stabilizer(90-250V range) (Standard Make, complete specifications must be mentioned)	3 Nos		
8	Electrification works (As per detail Attached)** given just below			
	Total			

Estimate for power wiring /Ac wiring at CSA Hall**

S.No	Description of item	Quantity	Rate Rs.	Amount Rs.
1	S&F of 6A SPMCB (10 KA) 1002(A)	06 Nos		
2	S&F of 63A 4Pole MCB 1021 (A)	01 No		
3	S&F Surface /flush mounting 4 ways TPN DB without MCB with additional metal door complete in all respect 1026 (C)	01 No		
4	S/F of AC box – 30A /240V	03 Nos		
5	Wiring point for light with 1.059mm FRPVC insulated multistrand single core copper conductor cable in PVC conduit pipe on surface complete with switch and ceiling rose /angle /batten holder complete in all respect. 121 (C)	15 Nos		
6	Wiring point for fan / fresh air fan (Light duty exhaust fan) with 1.0 sq.mm FR pvc insulated multistrand single core copper conductor cable in pvc conduit with 1.5 sq.mm FR pvc insulated multistrand copper conductor cable as earth wire drawn in side the conduit, and switch ceiling rose complete in all respect 123 (C)	14 Nos		
7	Supply and wiring of submain with two number 4.0 sq.mm FR pvc insulated 1100V grade multistrand single core copper conductor cable 20mm dia duty (2 mm thick) pvc conduit on surface with one number 2.5 sq mm multistrand copper conductor cable as earth complete in all respect 211 (C)	350 mtrs		

8	Supply and laying of aluminium conductor pvc insulated armoured served sheathed cable 1100V grade surface the cable run shall be fixed on Ms clamps etc. complete in all respect . (i) 16 sq.mm 4core 501 (i)	50 mtrs		
			Total	

Bill of qty for Aluminum Section work, Split A.C. Plastic painting and PVC flooring in TEQIP OFFICE

Sr.No.	Item	Qty	Rate	Amount (Rs.)
1	Supply and fixing of aluminum section door and window having 2mm thick Aluminum section excluding coating & an average coating of 20 micron fully glazed made4 of aluminum door tube (open able) The rate will include cost of all materials fixture 4mm thick glass, handles, locks, Screw , necessary beeding & excluding cost of floor spring if required for proper completion of work as per direction of Engineer I/C	20 sqm		
2	Cost of Floor Spring (Make must be mentioned)	1 Nos		
3	S/F Split A.C. (2 Ton) With Stabilizer(90-250V range) (Standard Make, complete specifications must be mentioned)	1 Nos		
4	Wall painting (Two coat) with plastic emulsion paint of approved brand and manufacture on decorative wall surface to give an even shade including toughly brushing the surface clean of all dirt grease loose places and prepared smooth (Including cost of Polly) as per direction of Engineer I/C (N.B. 18.58+18.59)	80 sqm		
5	Supply and fixing of 2mm thick PVC flooring with the help of resin & pressing it as floor including supply of all materials labour T&P etc. required for proper completion of works as pre direction of Engineer I/C (N.S.)	30 sqm		
6	Supply of curtain (approved quality with stitching) (N.S.)	20Rm		
	Total			

Bill of qty for Refurbishment of Toilet block in Academic Area

Sr.No	Item	Qty	Rate	Amount (Rs.)
1	Supply and fixing 6mm (1/4") thick china white glazed tiles in flooring or in skirting or dado laid with 1:3 cement and approved coarse sand mortar finished with white cement slurry jointing and polishing complete including supply of all materials labour and tools & plants etc. Required for proper completion of the work. (as S/I 628)	300sqm		
2	Dismantling of old white glazed earthen ware W.C. pan (N.S.)	5 Nos		
3	Dismantling of old wash hand basin with fitting (N.S.)	10 Nos		
4	Dismantling of old Urinal pot including fitting	20 Nos		
5	Dismantling of old Damage PVC bib cock	10 Nos		
6	Dismantling of old Cistern	10 Nos		
7	Supply and fixing of white glazed earthen ware W.C. pan 580mm dia	5 Nos		

	(Orissapan) (approved quality)			
8	Supply and fixing of low level cistern with fittings (approved quality)	5 Nos		
9	Supply and fixing of flat back or angular front Lipper urinal basin of white glazed earthen ware 465 x 355 x 265mm with fittings (approved quality)	20 Nos		
10	Supply and fixing of wash hand basin (Size 550 x400mm of) white glazed earthen ware with fittings (C.P. pillar cock C.P. waste jali waste pipe (C.P. Angle cock led connection etc)) (approved quality) (NS)	20 Nos		
11	S/F of looking mirror of Atul make with Indian polish of 600mm x 450mm Dia size with beveled edge on hand board sheet with dip (NS)	10 Nos		
12	S/F of CP Brass towel rail 750 x20mm together with pair of C.P. brass bracket to fit the towel rail (NS)	10 Nos		
13	Dismantling of old damage sewage pipe including cutting of floor (NS)	50rm		
14	Supply and fixing of New PVC pipe (3”d) for sewage as per diction of Engineer in charge (Including fittings & materials) (NS)	50rm		
15	Dismantling of old damage G.I. pipe line (NS)	150rm		
16	Supply and fixing of G.I. pipe line for repairing work (Including fitting) (a) 15mm dia (b) 20mm dia (c) 25mm dia	70rm 20rm 30rm		
17	S/F of CP brass bib cock	10 Nos		
18	Supply and fixing of fullway gate vowel (a) 20mm dia (b) 25mm dia	5 Nos 10 Nos		
19	15mm cement plaster in repair in 1:3 as (NBO 17.59 (i))	100 ^{m2}		
20	Water proof cement painting two coal as (S-I 661+662)	200 ^{m2}		
21	S/F of flush door shutting	30 ^{m2}		
22	Enamel painting two coat as (S.I. 642+643)	200 ^{m2}		
Make of fitting items should be mentioned				
	Total			

Kamla Nehru Institute of Technology, Sultanpur

Civil Works

Package Code- TEQIP-II/UP/UP2G05/55

PackageName

TEQIP-II/UP/KNIT/CivilWorks/Shopping/02

Estimated Total Cost Rs. 2250000=00			
Earnest Money Deposit (EMD) – Rs. 45000=00			
Period of Completion of Work-90 days			
S.No.	Name of Equipment	Specification	Quantity
1	Repairing and extension of drainage in hostel area	Repairing and extension of drainage in hostel area	01
2	Repairing and extension of foot path (road side) in hostel area	Repairing and extension of foot path(road side) in hostel area with S/F of Paver etc.	01

Bill of qty for Repairing and Extension of drainage in hostel area

Sr.No	Item	Qty	Rate	Amount (Rs.)
1	Earth work in excavation in trenches for drain as (S.I. 251)	400 ^{m²}		
2	Providing and laying in cement concrete 1:5:10 as (S.I. 274)	45 ^{m²}		
3	Class -150 B/w in 1:6 as (S.I.303)	70 ^{m²}		
4	15mm cement plaster in 1:3 (1 cement : 3 coarse sand) as (NBO 17.59 (i))	800 ^{m²}		
5	R.C.C. work in 1:2:4 for drain cover as (S.I. 283)	25 ^{m²}		
6	M.S. work for R.C.C. as (S.I. 504 (b))	20qtl.		
	Total			

Bill of qty for Repairing of rood side with S/F of Paver

Sr.No	Item	Qty	Rate	Amount (Rs.)
1	Supply and laying of 80mm thick I Shopped mechanically compressed inter locking cement convert paver block manufactured by high pressure & controlled vibration machine having plan dimension 200x (160+120mm) with minimum 5mm thick topping of O.P. cement mixed with 20% marble powder . The compressive strength of concrete paver block shall not be less then 30MPa & 4.5 kg/no. including cast of bedding sand and joint filling with sand all materials, labour, T&P etc required for proper completion of work as directed by Engineer in-charge and including U.P. VAT (NS)	1600 ^{m²}		
2	Distention of brick laid on footpath including stacking of dismantled materials as directed by Engineer in charge as (S.I. 697)	750 ^{m²}		
	Total			



**KAMLA NEHRU INSTITUTE OF TECHNOLOGY,
SULTANPUR (U.P.) 228118**

Advt. No:KNIT/TEQIP-II/15/01

**NOTICE INVITING QUOTATION
(Under National Shopping of TEQIP-II)**

1. The Government of India has received a Credit 4685-IN from the International Development Association and a Loan (Loan-IN) from the International Bank for Reconstruction and Development in various currencies towards the cost of TEQIP-II project and it is intended that part of the proceeds of this credit will be applied to eligible payments under the contracts for which this Invitation for Bids is issued.
2. Director, KNIT Sultanpur invites sealed quotations from eligible bidders for supply of goods, equipments /civil work for different departments /central facility of the Institute under TEQIP-II. Separate quotations should be submitted to the Office of the TEQIP-II for each package of various Departments / Central Facility:
 - (i) Civil Engg. (ii) Mechanical Engg (iii) Electrical Engg. (iv) Electronics Engg.(v) Furniture (vi) Air Conditioners with Stabilizers (vii) Smart Class Room Items (Projector, Interactive Board, Photocopier etc.)(viii) Anti Virus (ix) UPS (x) Civil Works (Refurbishment repairing etc.)
3. Quotation opening schedule: (I) Quotations for Packages of Civil and Mechanical Engg. can be submitted on or before **23/02/2015 up to 15.00 hrs** and will be opened on same day **23/02/2015 at 15.30 hrs** & (II) Quotations for Packages of Electrical Engg., Electronics Engg, Furniture, Air Conditioners with Stabilizers, Smart Class Room Items ,Anti Virus, UPS can be submitted on or before **24/02/2015 upto 15.00 hrs** and will be opened on same day **24/02/2015 at 15.30 hrs** in the committee room of the institute.(III) Quotations for Packages of Civil Works can be submitted on or before **25/02/2015 up to 15.00 hrs** and will be opened on same day **25/02/2015 at 15.30 hrs**.
4. Quotations can be submitted using downloaded forms available on the institute website, along with a Bank Draft Earnest Money Deposit(EMD).
5. The submission of quotation, evaluation and the award of contract shall be guided entirely by the terms & condition specified in the quotation documents and as per guidelines of World Bank.
6. Institute reserves all rights to reject any one or all quotations without assigning any reason thereof.

For EMD, Specifications, Tender Document and other details visit our website: www.knit.ac.in

DIRECTOR



**KAMLA NEHRU INSTITUTE OF TECHNOLOGY,
SULTANPUR (U.P)- 228118**

Phone & Fax - 05362-240454

**INVITATION FOR QUOTATION
(Under National Shopping of Goods/Equipments TEQIP-II)**

You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications. Sealed and separate quotations for the different packages of various departments are invited for supply of items along with earnest money deposit (EMD) in the shape of Demand Draft of PNB/SBI/BOB/BOLLD/CBI/UBI in favour of Director KNIT Sultanpur Avadh (UP)/ cash receipt of the Institute.

Quotation opening schedule:

- (i) Quotations for Packages of Civil and Mechanical Engg. should be submitted on or before **23/02/2015 upto 15.00 hrs** and will be opened on same day **23/02/2015 at 15.30 hrs** in the **committee room of the institute**.
- (ii) Quotations for packages Electrical Engg. , Electronics Engg. , Furniture ,Air Conditioners with Stabilizers , Smart Class Room Items (Projector, Interactive Board etc.) ,Anti Virus ,UPS should be submitted on or before **24/02/2015 upto 15.00 hrs** and will be opened on same day **24/02/2015 at 15.30 hrs** in the **committee room of the institute**.
- (iii) Quotations for Packages of Civil Works can be submitted on or before **25/02/2015 up to 15.00 hrs** and will be opened on same day **25/02/2015 at 15.30 hrs** in the **committee room of the institute**.

GENERAL INSTRUCTIONS

1. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations under National shopping is issued.
2. Each downloaded duly quoted package should be submitted along with nationalized/scheduled bank demand draft of appropriate amount as an Earnest money deposit (EMD) in favour of "Director, K.N.I.T. Sultanpur (UP), (@2% for each package), else bid(s) is/are liable for rejection in toto. **Separate draft of EMD** should be for each package.
3. Supplier(s)/Bidder(s) should be manufacturer/distributor/dealer/authorized firm of the mentioned product(s)/goods and should submit the copies of ST No., company/firm registration or equivalent registration with the Central/State Government of India if any. Copies of OEM / Latest authorized dealership certificate for respective items should be enclosed.
4. The quotation(s)/bid(s) shall be sent in sealed envelope either by courier / post or in person only, within stipulated time period given in the respective package/bid document. The sealed envelope should clearly indicate on the left side corner of the envelope the Package no. The bid(s)/quotation(s) shall be submitted to the office of the **Coordinator (Procurement), WBTEQIP-II, K.N.I.T. Sultanpur-228118 (UP)** before the stipulated date and time. Bidder(s) should ensure that the bids submitted them are reached to the Coordinator (Procurement), well within stipulated day and time. Delay in submission of bid(s) for whatsoever reason will not be considered. Such bids are liable for rejection.

5. Prices quoted should be inclusive of all taxes. Rate should be quoted “FOR” K.N.I.T. Sultanpur – 228118 (UP). Rate should be quoted in Indian Rupees **inclusive of** all Taxes, Duties, Transportation, Insurance, Installation, Commissioning etc. All duties and other levies payable by the supplier under the contract shall be included in the unit price. Break up of applicable taxes shall be quoted separately for all items.
6. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
7. The Prices should be quoted in Indian Rupees only. Format for submission of quotation is in Annexure-I.
8. The contract shall be for the full quantity as described above. Corrections, if any, shall be made by crossing out, initialing, dating and re writing. Signature of the Supplier should be there on every page of the bid.
9. The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. Quotation shall remain valid for a period not less than **45** days from date of opening.
10. Evaluation of Quotations: The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which are properly signed; and confirm to the terms and conditions, and specifications. The Quotations would be evaluated for all items together for each package.
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.
 - (i) 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.
 - (ii) The bidder whose bid 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 purchase order.
12. Payment shall be made in Indian Rupees as follows:
Satisfactory Delivery Installation and Acceptance - 100% of total cost
13. All supplied items should be under warranty of 12 months from the date of successful acceptance of items.
14. Commissioning / Installation is at suppliers cost. Supplier should provide free demonstration for the equipment / item provided. At least one hard copy/soft copy (CD) of working manual of each equipment/item(s) should be provided during the supply of goods at free of cost.
15. (a) Conditional Bid(s)/Quotation(s) will not be accepted. (b) Any breach of term(s) of contract at any stage and/or non-execution of firm Purchase Order by the supplier(s)/Bidder(s) shall be lead to forfeiture of Earnest money deposit(s).
16. All legal disputes are subjects to the jurisdiction of **Sultanpur (UP)** court only.
17. Right to accept or reject any bid or all bids without assigning any reason is reserved with the Institute (or Purchaser).

Sd/-

Coordinator (Procurement)

On behalf of the

Director, K.N.I.T.Sultanpur(UP) – 228118

Annexure-I
FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To:

The Director,
K.N.I.T. Sultanpur-228118 (UP)

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Sales tax and other taxes payable ,Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (Rs.)
Total Cost					

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) (Rupees _____amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

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

Signature of Supplier

Name: _____

Address: _____

Contact No: _____

Department of Civil Engineering,

KNIT, Sultanpur

Geotechnical Engineering Lab

Package Code- TEQIPII/UP/UP2G05/4

PackageName- TEQIP-II/UP/KNIT/CE/GE/Lab/Shopping/01

Earnest Money Deposit (EMD) – Rs. 41000=00			
Delivery Period—45 days			
S/N	Name of Equipment	Specifications	Qty
1	Triaxial Shear Apparatus equipped with electronic outfit	Equipped with direct reading of strain, total load and pore pressure, plug-in transducer module system, complete with all accessories	1
2	Consolidation Test Apparatus with Electronic Outfit	3 gang electronic, total pressure of 10 kg/cm ² , fitted with transducer modules and readout unit having 3-6 channels	1
3	C.B.R. Test Apparatus fitted with Electronic Outfit	Load frame 50kN, digital indicator, load cell 50kN, strain gauges in full bridge configuration	1
4	Direct Shear Apparatus fitted with Electronic outfit	2kN capacity, equipped with direct reading of strain, total load and strain and plug-in transducer module system, complete with all accessories	1
5	Unconfined Test Apparatus with Electronic Outfit	Equipped with direct reading of strain, total load and strain and plug-in transducer module system, complete with all accessories	1
6	Swell Pressure Apparatus	Capacity 50kN, fitted with proving ring of high sensitivity complete with all accessories	1
7	Pore Pressure Apparatus	10-20 kg/cm ² capacity, Bourdon type pressure gauge, divisions- 0.1 bar	2
8	Permeameters: Constant Head, falling Head, Granular Soils	Complete with sample holding moulds, panel for manometers, overhead tank, rammer etc. with all accessories	1 each
9	Equipment for Sedimentation Analysis	Inclusive of bench top stirrer, constant temperature bath, soil hydrometer, sedimentation jar and accessories	2
10	Gas Jar Apparatus for Specific Gravity	1litre capacity, complete with rubber bung and glass cover, should be capable of rotating two jars at appx. 50 rpm	2
11	Constant Pressure System	Oil-water/air-water type, pressure capacity 7-17 kg/cm ² in 0.5 kg/cm ² or less increments	1

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Environmental Engg. lab

Package Code- TEQIP-II/UP/UP2G05/3

PackageName- TEQIP-II/UP/KNIT/CE/GE/Lab/Shopping/03

Earnest Money Deposit (EMD) – Rs. 5000=00			
Delivery Period—45 days			
S/N	Name of Equipment	Specifications	Qty
1	High Volume Air Sampler	USEPA compliant PM ₁₀ and PM _{2.5} systems for Indoor or outdoor sampling of airborne total suspended particulates (TSP), flow range-0-2 cubic meters per minute (cmm), suitable for spot or continuous monitoring, built-in rotometer for instantaneous flow reading, timer, should Include 4" (10.16 cm) diameter filter holder assembly. For use in normal, non-explosive atmosphere and should have the provision for gaseous sampling by gaseous sampling attachment	01

		<p>Angular Accuracy 2"</p> <p>Display Units DEG/ MIL/ GON</p> <p>4. Compensator</p> <p>Inclination Sensor Automatic Vertical</p> <p>Compensator Range +/- 3'</p> <p>5. General Specifications</p> <p>Plummet Type Laser</p> <p>Plate Vial Accuracy 30"/2 mm</p> <p>Circular Vial Accuracy 8'/2 mm</p> <p>Operating Temperature -20⁰C to +50⁰C</p> <p>Battery Backup 36 Hours</p> <p>Standard Accessories to accompany the machine</p>	
4	Total Station	<p>1. Telescope</p> <p>Image Erect</p> <p>Magnification 30x</p> <p>Objective Aperture 40 mm</p> <p>Minimum focussing dist. Less than 1.8m</p> <p>Field of View 1⁰ 30'</p> <p>2. Angle Measurement</p> <p>Accuracy 1"</p> <p>Least Count 1"</p> <p>Angle Method Absolute Encoder</p> <p>3. Distance Measurement Range</p> <p>Range with Prism 5 km or better</p> <p>Range without Prism 500 m or better</p>	2

		<p>Accuracy with Prism 2 mm ±2 ppm XD</p> <p>Accuracy without Prism 4 mm ±2 ppm XD</p> <p>4. Compensator</p> <p>Dual Axis Compensator</p> <p>Compensator Range +/- 3' or better</p> <p>5. General Specifications</p> <p>Plummet Type Laser</p> <p>Internal Memory 16 GB</p> <p>External Memory 64 GB</p> <p>Battery Backup 36 Hours</p> <p>Operating Emperature -20⁰ C to +50⁰ C</p> <p>Humidity 95% non condensing</p> <p>Keyboard Colour touch screen on both sides with Alphanumeric keyboard</p> <p>Software Data downloading software with all the civil engineering capabilities (area calculation, volume calculation, contouring, level plotting, etc.) as basic features and also compatible with AUTO CAD</p> <p>Data Communication via Bluetooth, pen drive, USB data cable as standard features</p> <p>Standard Accessories to accompany the machine</p>	
5	Hand Held GPS	<ul style="list-style-type: none"> • Capable of showing instant longitude & latitude. 2 • Built in Barometric Altimeter & electronic compass • Battery operated : two AA size battery with 18 hours life typical. • Color display: 256 colour TFT: 2.2 X 1.6 inch (min) • Receiver Sensitivity: high • Accepts Micro SD card (min 2 GB included) • More than 100 plus user datums • G-Sensor, E-Compass • USB cable and software for USB & serial interface, computer cable(if any), user manual & other accessory. • carrying case • waterproof casing (IP X 7) • Warranty: min 1 year. 	5

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Hydraulics / Fluid Mechanics Lab

Package Code- TEQIP/II/UP/UP2G05/5

PackageName - TEQIP-II/UP/KNIT/CE/FM/Lab/Shopping/05

Earnest Money Deposit (EMD) – Rs. 5000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Tilting Flume	<ul style="list-style-type: none">• Self containing water circulating system with single phase operation• Section 250X200mm, min. 5 m length• Can provide 1 in 25 slope on upward and downward slope• Having measuring arrangement for flow velocity• With notches, weir, venture flume experimental setup for hydraulic jump and other models for conducting experiment of Open Channel Flow	1
2	Flow Visualisation Apparatus	<ul style="list-style-type: none">• Made of Perplex sheet• Operational with hydraulic bench setup for visual observation on a very low Reynold's number• of Flow pattern around aerofoil, circular, triangular and sure models	1

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Concrete / Materials Testing Lab

Package Code- TEQIPII/UP/UP2G05/6

PackageName- TEQIP-II/UP/KNIT/CE/MT/Lab/Shopping/06

Earnest Money Deposit (EMD) – Rs. 8000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Cement Tensile Testing M/C	Manually Operated as per IS 269	1
2	Compression Testing M/C	Capacity 2000KN Motorised units three gauge(Computerised)	1
3	Concrete Test Hammer	Concrete Test Hammer	1
4	Concrete core drill	Concrete core drill	1

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Package Code- TEQIPII/UP/UP2G05/14

PackageName-TEQIPII/UP/KNIT/ME/EMMT/Lab/Shopping/01

Earnest Money Deposit (EMD) – Rs. 25300=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Universal testing machine with Double Shear Attachment and extensometer	Computerised, Capacity-400 kN	1
2	Brinell Hardness testing machine	Electro-mechanical version, Capacity 300 kgf	1
3	Rockwel Hardness testing machine	Mechanical version. Capacity 150 kgf	1
4	Impact testing machine	Electronic microprocessor based, For Izod and Charpy test	1
5	Fatigue testing machine	Mechanical version	1
6	Universal force table	Complete sets with weight and table	3
7	Belt Pulley Experiments	Complete Sets	2
8	Inclined plane apparatus	Complete Sets	2
9	Screw Jack experiments apparatus	Complete Sets	2
10	Bell Crank Lever experiments models	Complete Sets	2
11	Apparatus for Reaction at support	Complete Sets	4
12	Simple jib crane	Complete Sets	2

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Package Code- TEQIP-II/UP/UP2G05/15 PackageName-TEQIP-II/UP/KNIT/ME/MST/Lab/Shopping/02

Earnest Money Deposit (EMD) – Rs. 31200=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Universal testing machine with Double Shear Attachment	Computerised, Capacity-200 kN	1
2	Corrosion test apparatus	Temperature up to 250 ⁰ c	1
3	Muffle furnace	Digital Temp. Controller, Range up to 2000 ⁰ C	1
4	Metallurgical microscope Trinocolor computerised image analyser	Magnification up to 2000X, Coating thickness and Grain size measurement	1
5	Metallurgical microscope Trinocolor	Magnification 50x to 1500x	5
6	Jominy end quench Test	Mandatory accessories and consumables	1
7	Micro- Vickers hardness testing Machine	Computerised Version	1
8	Vickers Hardness testing machine	Computerised Version	1
9	Heat-Treatment Furnace	Digital Temp. Controller, Range up to 2000 ⁰ C	1
10	Double Disc Polishing Machine	With variable speed and cooling facility	1
11	Belt Polishing Machine	With abrasive belt and single phase motor	1
12	Grinding Machine	Single phase grinding machine with standard accessories	1

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Applied Thermodynamics Lab

Package Code- TEQIPII/UP/UP2G05/16 PackageName-TEQIP-II/UP/KNIT/ME/AT/Lab/Shopping/03

Earnest Money Deposit (EMD) – Rs. 1600=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Model of Lancashire boiler(Fire tube boiler)	Table top models cut section optional	1
2	Model of Babcock and Wilcox Boiler(Water tube boiler)	Table top models cut section optional	1
3	Pressure & Velocity Compounded Steam Turbine	Table top models cut section optional	1
4	Impulses Turbine	Table top models cut section optional	1
5	Pure Reaction Turbine		1
6	Model of Steam Engine	Table top models cut section optional	1
7	Sectional Working Model of 2 Stroke Petrol Engines	Table top models cut section optional	1
8	Sectional Working Model of 4 Stroke Petrol Engines	Table top models cut section optional	1
9	Sectional Working Model of 2 Stroke Diesel Engines	Table top models cut section optional	1
10	Sectional Working Model of 4 Stroke Diesel Engines	Table top models cut section optional	1
11	Gas Turbines Or Turbojet Engine	Table top models cut section optional	1

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Measurement and Metrology Lab

Package Code- TEQIP/II/UP/UP2G05/17

PackageName - TEQIP-II/UP/KNIT/ME/MM/Lab/Shopping/04

Earnest Money Deposit (EMD) – Rs. 4900=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Digital vernier Calipers	LC 0.02mm and range 300mm	2
2	Strain Gauge measurement	Range 0-100 micro strain and resolution 1 micro strain	2
3	Tachometer, Digital type	Tachometer, Digital type	2
4	Slip Gauges Set of 83 pieces (complete set),	grade 1and size 1mm	1
5	Sets of Limit Gauges	Plug Gauge 20mm and 30mm, Snap gauge 19-25mm, Taper gauge	1
6	Pressure Measuring Experiment	Range 0-10Kg/cm ² , Resolution 0.1 Kg/cm ²	2
7	Temperature Measuring Experiment	RTD sensor based, Range up to 1000 °C and resolution 0.10 °C	1
8	Temperature Measurement Tutor using Thermocouple	Range up to 1000 °C and resolution 0.10 °C	1
9	Speed Measurement Using Stroboscope	Digital, Flash range 250-18000 flashes/min. With course and fine control resolution 1 rpm	1

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Fluid Machinery Lab

Package Code- TEQIP/UP/UP2G05/18

PackageName-TEQIP-II/UP/KNIT/ME/FM/Lab/Shopping/05

Earnest Money Deposit (EMD) – Rs. 8700=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Impact of Jet experiment	Centrifugal pump with all mounting accessories	1
2	Francis Turbine	Complete Set accessories	1
3	Kaplan Turbine	Complete Set with accessories	1

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Heat and Mass Transfer Lab

Package Code- TEQIPII/UP/UP2G05/19

PackageName

TEQIP-II/UP/KNIT/ME/HMT/Lab/Shopping/06

Earnest Money Deposit (EMD) – Rs. 4100=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Heat Transfer Through Composite Wall Apparatus	Composite wall assembly of different materials control panel with digital Ammeter and digital volt meter	1
2	Heat Transfer Through Lagged Pipe Apparatus	Inner pipe 50mm, middle pipe 100mm and outer pipe 150mm dia., with digital controls	1
3	Critical Heat Flux Apparatus	Digital control panel, thermometer, heater and glass trough hosing	1
4	Thermal Conductivity of Liquid Apparatus	Digital control panel, insulation bags to house guarded hot plate assembly, heater and cooling plate	1
5	Thermal Conductivity of Insulating Powder	Digital control panel, mica heater, inner sphere 100mm dia. And outer sphere 200 mm dia.	1

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Dynamics of Machine Lab

Package Code- TEQIPII/UP/UP2G05/20

PackageName - TEQIP-II/UP/KNIT/ME/DM/LAB/Shopping/07

Earnest Money Deposit (EMD) – Rs. 3700=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Static- dynamic balancing Machine	Range 2-50 kg	1
2	Vibrating Table Apparatus (Longitudinal & transverse both)	Accessories for min 10 Exp.	1
3	Study of simple linkage models/mechanisms	Model	1
4	Study of inversions of four bar linkages	Model	1
5	Study of inversions of single slider crank mechanisms	Model	1
6	Experiment on Gears tooth profile, interference etc	Model	1
7	Experiment on Gear trains	Model	1
8	Experiment on critical speed of shaft (Whirling of Shaft)	Motor ¼ HP, RPM 100-6000, shaft with attachment for changing the end conditions	1
9	Experiment on Brake	Model	1
10	Experiment on clutch	Model	1

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Automobile Engineering Lab

Package Code- TEQIPII/UP/UP2G05/21 PackageName- TEQIP-II/UP/KNIT/ME/AE/Lab/Shopping/08

Earnest Money Deposit (EMD) – Rs. 13500=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Model of fuel supply system of an automobile(Diesel and Petrol)	Study models /cut section	2
2	Motor Car Steering Model	Study models /cut section	1
3	Multi Point Fuel Injection (MPFI) System of an Automobile (Actual Working Model)	Study models /cut section	1
4	Model of Breaking System of any Vehicle	Study models /cut section	3
5	Coil Ignition System of an Automobile	Study models /cut section	1
6	Transmission System of an Automobile	Study models /cut section	1
7	Mock Layout of Car Wiring	Study models /cut section	1
8	Lubrication System of an Automobile	Study models /cut section	1
9	Cooling System of an Automobile (with Actual Part)	Study models /cut section	1
10	Actual Cut Section Gear Box : 4 Forward and 1 Reverse	Study models /cut section	1
11	Differential Gear Assembly (Actual Cut Section)	Study models /cut section	1
12	Multi Cylinder four Stroke Petrol Engine test rig. with Rope Brake Dynamometer with Morse Test arrangement	Four Cylinder petrol engine test rig with attachment and accessories	1
13	Front Wheel Drive Car chassis, Four Stroke Four Cylinder Petrol Engine (Motor Driven)	Study models /cut section	1
14	Carburettor (Maruti Car Type)	Study models /cut section	1
15	Fuel Pump (Mechanical)	Study models /cut section	1
16	Electrical Fuel Pump	Study models /cut section	1
17	Rear Axle Assembly (Actual Cut Section)	Study models /cut section	1

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Central Workshop

Package Code- TEQIPII/UP/UP2G05/22

PackageName - TEQIPII/UP/KNIT/ME/Workshop/Shopping/09

Earnest Money Deposit (EMD) – Rs. 31500=00												
Delivery Period—45 days												
S.No.	Name of Equipment	Specification	Quantity									
1	Power hacksaw	Main motor 0.75-1.0 kW Coolant motor 0.75-1.0 kW	1									
2	Universal wood working planner machine	Moulding capacity : 20 to 60mm Motor Power required : 2hp	1									
3	Spot welding machine	Electrode pressure : 300 to 2500 KPa. Electrode working range : 250 mm Arm spacing : 65/445 mm	1									
4	Centre Lathe machine	<table border="1"><tr><td>Spindle Speed range</td><td>rpm</td><td>16 from 40-2040 forward 7 from 60-1430 reverse</td></tr><tr><td>Feed range (longitudinal)</td><td>mm/rev</td><td>60 from 0.04-2.24</td></tr><tr><td>Feed range (cross)</td><td>mm/rev</td><td>60 from 0.02-1.12</td></tr></table>	Spindle Speed range	rpm	16 from 40-2040 forward 7 from 60-1430 reverse	Feed range (longitudinal)	mm/rev	60 from 0.04-2.24	Feed range (cross)	mm/rev	60 from 0.02-1.12	1
Spindle Speed range	rpm	16 from 40-2040 forward 7 from 60-1430 reverse										
Feed range (longitudinal)	mm/rev	60 from 0.04-2.24										
Feed range (cross)	mm/rev	60 from 0.02-1.12										
5	Automatic forging machine	Press range 250-500 tons	1									

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CAD/ CAM Lab

Package Code- TEQIP/II/UP/UP2G05/23

PackageName-TEQIP-II/UP/KNIT/ME/CAD/Lab/Shopping/10

Earnest Money Deposit (EMD) – Rs. 15000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	CAD Software	modelling, simulation, analysis and manufacturing	01

**Department of Electronics Engineering
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Package Code- TEQIPH/UP/UP2G05/26 PackageName - TEQIP-II/UP/KNIT/EL/Emb.Lab/Shopping/02

Earnest Money Deposit (EMD) – Rs. 38500=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specifications	Quantity
1.	Universal Embedded Development Package	Facility for 8 , 16 , 32 Bit processors , with debugging facility .With USB Programming, user manual etc.	2
2.	Universal Arm Development Board ,	with Support Various ARM series of controllers etc	2
3.	Universal PIC development board ,	with USB programming , facility with various family daughter boards PIC 18F452 daughter board PIC 16F877 daughter boards	2
4.	Embedded Biometric Development System	Embedded Biometric Development System	2
5.	Embedded Programmable Project Board	Embedded Programmable Project Board	10
6.	Universal FPGA/ CPLD development systems ,	with USB interface, Various daughter Boards	05
7.	Vertx 4 development system ,	with Interface	05
8.	Interfacing modules:	Accelerometer Interface application Modules Proximity (speed) interface application modules Humidity interface application modules Pressure interface application modules IR Experimental Module (RC 5) protocol RF Experimental Module SD MMC interfacing card Graphical LCD Display Interfacing Module, Temperature Measurement Interfacing Module Traffic light study Interfacing Module Speed control using PWM For DC Motor Interfacing Module Stepper Motor Interfacing Module Elevator Interfacing Module Relay – buzzer interfacing card 7 segment interfacing card	04
9.	Robotics Training System.	with touch operated ON/Off switch Auto set, Record & Play capability	01

10.	rogrammable analog Board	<p>FPAA AN221E04 Based configurable designs development board</p> <p>Dynamically reconfigurable through serial port</p> <p>Compatible to AnadigmDesigner2 Software for downloading</p> <p>Analog interface blocks for level shifting, amplifying, attenuating, filtering and differential to single ended conversion of signal</p> <p>High Speed/Precision OPAMP's.</p> <p>All analog interface blocks can be configured as Input/Output</p> <p>Two Dedicated output interface blocks can be configured</p> <p>Digital/Analog, Differential Amplifier for the dedicated output</p> <p>Onboard 16 MHz oscillator and Power Regulation</p> <p>Ability to separate, electrically and physically, the digital section leaving a purely analog board with SPI EPROM and digital interface pins.</p>	05
11.	VLSI Protoboard	<p>Daughter Modules for MATrix</p> <ul style="list-style-type: none"> - CPLD Module (Xilinx XC9572 PLCC84) - FPGA Module (Xilinx FPGA Spartan II XC2S200 PQ208), - FPGA Module (Xilinx FPGA Spartan III XC3S400 PQ208) <p>Add on Modules</p> <ul style="list-style-type: none"> - Pluggable Microcontroller Module, - ADC/DAC Module - Liquid Crystal Display (LCD) Module - Relay Module, - Dot matrix Rolling Display panel - Keypad adaptor., - Power Supply with Cable - JTAG Programming Cable for XILINX PLDs - User Manual, 	05
12.	System C Tool	<p>software tool for synthesizing System C automatically to RTL VHDL or Verilog to design, debug and simulate hardware and systems using the C++ development environment.</p> <p>synthesis tool for Xilinx FPGAs.</p>	01

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Package Code- TEQIPH/UP/UP2G05/29

PackageName-TEQIP-II/UP/KNIT/EL/Comm.Lab/Shopping/05

Earnest Money Deposit (EMD) – Rs. 30000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
01.	Network Simulator & communication kits	- LAN & wireless -network protocol & topology -AM , FM , PM, PCM , DM , QAM , PAM, FSK, PSK,QSK , FDM , TDM, CDMA	01
02.	CDMA-DSSS Developer	(Bit error rate measurement, DSSS& FHSS Modulator/Demodulator	02
03.	Wireless/ Mobile Communication Trainer	Wireless/ Mobile Communication Trainer	03
04.	Satellite Communication Trainer	Satellite Communication Trainer	02
05.	Wireless Sensor Network Kit	Wireless Sensor Network Kit	02

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Package Code- TEQIPH/UP/UP2G05/30

PackageName-TEQIP-II/UP/KNIT/EL/Comm.Lab/Shopping/06

Earnest Money Deposit (EMD) – Rs. 21000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
01.	DSP Based Development Boards	Fixed and floating point, PC interface, cross compiler with signal processing software for RTS design	03
02.	Analog, Digital, Symbolic, RF, HDL, MCU and Mixed-Mode Circuit Simulation & PCB Design Software	Analog, Digital, Symbolic, RF, HDL, MCU and Mixed-Mode Circuit Simulation & PCB Design Software	05
03.	Miscellaneous DSO, DMM, DFG, Sensors and discreet components	DSO, DMM, DFG, Sensors and discreet components	----

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POWER SYSTEM LAB

Package Code- TEQIPII/UP/UP2G05/32

PackageName-TEQIP-II/UP/KNIT/EE/PS/Lab/Shopping/01

Earnest Money Deposit (EMD) – Rs. 9900=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	DC network Analyser	DC network Analyser	1
2	Transmission line model:	22V, 2Amp with different type of loads and meters	1
3	I.D.M.T. over current relay	With all accessories to determine its characteristics.	1
4	Distance relay study Trainer	with accessories like auto transformer ,meters and loading rheostat / transformer	1
5	Percentage Differential Relay	with all accessories to determine is characteristics	1
6	Power Quality Analyzer	True RMS voltage, THD, power factor, VAR, power harmonics voltage and current wave form	1

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Electrical drives Laboratory

Package Code- TEQIPII/UP/UP2G05/33

PackageName-TEQIP-II/UP/KNIT/EE/ED/Lab/Shopping/02

Earnest Money Deposit (EMD) – Rs. 11800=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Four quadrant dc motor Converter control trainer For single phase and Tree phase circuits	Power Supply, Single phase: 230V, 50 Hz , Three phase: 400V, 50Hz, - Single phase full wave/half wave controlled, Converter circuits,- Three phase full wave/half wave controlled , Converter circuits, Dual converter, DC shunt/separately excited machine, 220V, 250W, 3000 rpm, Single phase switched capacitive load, 50 μF switched in step of 10μF, Variable inductive load 230V,1A,600 mH,50Hz, Friction Brake torque output in both directions up to 2Nm., Experimental manual	1
2	Voltage Source Inverter/PWM Inverter fed Three phase induction motor control unit	Input supply: Single phase: 230V, 50 Hz, Three Phase: 400V, 50 Hz, Voltage source inverter, Three phase squirrel cage induction motor 400V, 1KW, 50Hz, Pendulum machine with control unit suitable for Loading purpose, Gyrating mass 200 Kg cm ² , Experimental manual	1
3	Field Oriented Frequency Inverter fed Three phase induction motor control unit	Input Supply: Single phase: 230V, 50Hz Three phase: 400V, 50Hz Field oriented Frequency Inverter Three phase squirrel cage induction motor 400V, 300w, 50Hz Friction brake suitable for loading purpose Experimental manual	1
4	AC Voltage controller unit :	Single phase AC voltage controller with inductive load, Three phase AC voltage controller with star/Delta , Connector load	1

		Burst Firing controller. Experimental manual	
5	DC chopper unit	2.5 KHz GTO Chopper 10KHz Power Transistor chopper 5 KHz IGBT Chopper 15 KHz MOSFET Chopper 400 Hz thyristor chopper DC shunt motor 220V, 300W, 3000rpm DC stabilized power supply 220V, 5A DC tachogenerator Output voltage: $\pm 20V/1000rpm$ Experimental manual	1
6	SCR Commutation circuit Trainer	Line commutation circuit Forced commutation circuit, Self commutation circuit Voltage commutation circuit, Current commutation circuit Complementary commutation circuit	1
7	Experimental module of modified series Inverter	Experimental module of modified series Inverter	1
8.	Experimental module of single phase three phase current source inverter	Experimental module of single phase three phase current source inverter	1

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RENEWABLE ENERGY LAB

Package Code- TEQIP/II/UP/UP2G05/34

PackageName -TEQIP-II/UP/KNIT/EE/RE/Lab/Shopping/03

Earnest Money Deposit (EMD) – Rs. 39600=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Solar PV Training and Research Kit	2 PV module of module of 37Wp each, maximum power voltage-17V, maximum power current-2.25Amp, Charge controller-5A/12V, Battery bank consist of two batteries- 12v/4.5 Ah, Inverter-100W, 10-15 V,	1
2	Solar PV Grid-Tied Training System	Stand alone inverter to form artificial grid-200W, Battery bank consist of two batteries-12V/26Ah, Grid Tied inverter- 300W, Control unit and other accessories.	1
3	Solar PV Emulator	Max power- 300W, Rated voltage- 0 to 50 V, Rated Current- 0-8 Amp	1
4	Wind Energy training System	Artificial wind generating unit, wind turbine with AC to DC converter, Battery banks-24V/80Ah and necessary accessories.	1
5	Wind turbine emulator	Power generating unit 220V(AC)/ 1000VA, DC-DC converter-2500W, Three phase inverter-1000VA/ switching frequency is 10 KHz, Control unit and necessary accessories	1

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Virtual Instrumentation Lab

Package Code- TEQIP-II/UP/UP2G05/35

PackageName-TEQIP-II/UP/KNIT/EE/VI/Lab/Shopping/04

Earnest Money Deposit (EMD) – Rs. 4200=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Polarity tester battery operated for CTs	Polarity tester battery operated for CTs	1
2	Transducers Kit :	Thermo couple, strain gauge, LVDT, Load cell, Thermistor, RTD with display unit	1
3	Process Instrumentation Trainer	Process Instrumentation Trainer	1
4	Temperature Process Control Trainer	Temperature Process Control Trainer	1

Kamla Nehru Institute of Technology, Sultanpur

Central Shopping (UPS)

Package Code- TEQIPH/UP/UP2G05/48

PackageName - TEQIP-II/UP/KNIT/UPS/Shopping/01

Earnest Money Deposit (EMD) – Rs. 29500=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	UPS 5KVA	UPS 5KVA, 17 AH, 2 hour backup.	15
2	UPS 2KVA	UPS 2KVA, 01 hour backup.	05

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Central Shopping (A.C.)

Package Code- TEQIPII/UP/UP2G05/49

PackageName

TEQIP-II/UP/KNIT/AC/Shopping/02

Earnest Money Deposit (EMD) – Rs. 11000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	AC with stabilizer	2.0 Ton Split AC (Of Standard Make with all specifications and Make should be mentioned) with stabilizer (90-250V)	08
2	1.5 Ton AC with stabilizer	1.5 Ton AC (Of Standard Make with all specifications and Make should be mentioned) with stabilizer (90-250V)	02

Kamla Nehru Institute of Technology, Sultanpur

Campus Wide Networking

Package Code- TEQIP-II/UP/UP2G05/50

PackageName

TEQIP-II/UP/KNIT/CWN/AV/Shopping/02

Earnest Money Deposit (EMD) – Rs. 12000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Antivirus 300 Users for 03 Years Server Version	Antivirus 300 Users for 03 Years Server Version	01

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CENTRAL SHOPPING (Smart Class Room)

Package Code- TEQIP-II/UP/UP2G05/52

PackageName-TEQIP-II/UP/KNIT/Central/Shopping/01

Earnest Money Deposit (EMD) – Rs. 10000=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Projector LCD/DLP	Projector LCD/DLP	03
2	Interactive White Board	Interactive White Board	02
3	Photocopier Machine	Photocopier Machine	01
4	Audio visual System	Audio visual System	02

Kamla Nehru Institute of Technology, Sultanpur

CENTRAL SHOPPING (Furniture)

Package Code- TEQIP-II/UP/UP2G05/53

PackageName

TEQIP-II/UP/KNIT/CE/Furniture/Shopping/13

Earnest Money Deposit (EMD) – Rs. 3400=00			
Delivery Period—45 days			
S.No.	Name of Equipment	Specification	Quantity
1	Computer Furniture	Computer Table and Chairs	20 each