

WBUAFS

No: WBUAFS/RKVY /513

Date: 14.03.11

Sealed tenders are invited for supply of various items and construction works for the ongoing project work. Details are in www.rkvy-wbuafs.com Last date of submission 25.03.11 by 12 Noon. EMD 2%.

Dr.P K Das, PI, RKVY Project, WBUAFS, 37, K.B. Sarani, Kolkata – 37

DETAILS OF TENDER NOTICE

The short tender should be submitted to the Office of the Registrar at 68, K B Sarani, Kolkata – 700 037, West Bengal addressing to the **Principal Investigator, RKVY Project, WBUAFS** along with a Demand draft of Rs.100/- (Rupees one hundred) and 2% of the quoted amount in favour of “**Finance Officer, WBUAFS**” payable at “**Kolkata**” from any schedule Bank. **Last date for dropping is 25.03.11 by 12 Noon.** The tender quotation will be opened on 25.03.11 at the conference room of the University at 68, K.B.Sarani, Kolkata – 700 037, WB at 12: 05 Noon. All the eligible bidders may attend during the opening of tenders on the date with appropriate permission.

Dr.P K Das, PI, RKVY Project, WBUAFS, 378, K.B. Sarani, Kolkata – 700 037, WB.

**Rashtriya Krishi Vikash Yojona sponsored Project on
DEVELOPMENT OF A MODEL FOR
SUSTAINABLE BACKYARD POULTRY FARMING IN WEST BENGAL**



Organised by

West Bengal University of Animal & Fishery Sciences

37, K B Sarani, Kolkata – 700 037, West Bengal

In Collaboration with

Department of Animal Resources Development, Government of West Bengal

and

Three tier Panchayet System



APPLICATION FOR TENDER
(for items under Annexure I, and II)

To
The Principal Investigator,
RKVY Project,
WBUAFS
68, K.B. Sarani
Kolkata – 700 037
West Bengal
India

Sir,

In response to the **Tender Notice No.:** WBUAFS/RKVY/513 **Dated 14.03.11**, we are/I am interested to compete/place for the tender for supplying of following item(s) as specified in the list enclosed and submitting tender offers along with a Demand Draft of Rs.100/- (Rupees one hundred) Vide DD No....., dated and Rs. (Rupees) only Vide DD No....., dated drawn in favour of “Finance **Officer, WBUAFS**” payable at “**Kolkata**”. from Bank....., Branch..... .In this connection we/I accept your terms & conditions specified below:

TERMS AND CONDITONS

1. The Principal Investigator, RKVY Project, WBUAFS reserve the right to accept or reject the Tender, partly or fully without assigning any reasons there of. Simple submission of the lowest rate does not form a right to get a supply/ purchase order. Call of tender does not necessarily mean purchasing of all items.
2. The supply of items should be made within thirty days from the issuing date of the purchase order. In case of construction work specific time schedule and terms and condition will be followed as mentioned separately. The tenderer should have experienced for execution of similar nature of job.
3. Delivery of articles etc. should be made / work to be done at the HQ of the Project, Department of Veterinary Physiology, 37, K B Sarani, Kolkata – 700 037, WB or at Mohanpur (Nadia) Campus or Jalpaiguri District or South 24 Parganas District or Midanpur of Paschim Medenipur or at Balurghat of Dakshin Dinajpur district or Purulia and Howrah town of West Bengal or as mentioned for any specific areas or as per instruction in the purchase/ work order.
4. Every price/rate quoted in the tender offer shall be inclusive of packaging, transportation and installation cost etc., (i.e. all sorts of additional costing) and also taxes etc.
5. Earnest Money @ 2% of the quoted value and Rs.100/-(Rupees one hundred) only is to be deposited by Demand Draft in favour of “**Finance Officer, West Bengal University of Animal and Fishery Sciences**” payable at

“Kolkata” from any schedule Bank. After being selected, if the party fails to honour the commitment within the stipulated period, the Earnest Money will be forfeited.

6. Tender must be accompanied with a copy of

- i) Valid trade License
- ii) Income Tax clearance certificate / current copy of return acknowledgement
- iii) Sales Tax clearance certificate / current copy of return acknowledgement.
- iv) Current Professional Tax clearance receipt of the firm
- iv) Proof of authorization of the concern companies /supplier.
- v) PAN Card
- vi) VAT registration certificate, if any

7. Tender offers for the articles should be as indicated as prescribed in tender papers attached herewith for competing Tender. Extra sheets may be attached if required.

8. All legal matters will be settled within the jurisdiction of Kolkata High Court.

9. Last date of submission of Short Tender is 25.03.11 upto 12 noon. and Date of Tender opening is 25.03.11 at 12:05 noon at the conference room of the University at 68, K.B.Sarani, Kolkata – 700 037, WB

Thanking you,

Yours faithfully,

Date:

(Signature)

Name of the Firm.....

Address for Communication

Contact Phone No. ----- Fax _____ Email: _____

**Rashtriya Krishi Vikash Yojona sponsored Project on
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and

Three tier Panchayet System

APPLICATION FOR TENDER

(for items under Annexure III)

For the Work amount a
sum of money Rs (Rupees) put to tender, at the
West Bengal University of Animal & Fishery Sciences, vide N.I.T. No. of

To
The Principal Investigator,
RKVY Project,
WBUAFS
68, K.B. Sarani
Kolkata – 700 037
West Bengal
India

Sir,

In response to the **Tender Notice No.:** WBUAFS/RKVY/513 **Dated 14.03.11**, we are/I am interested to compete/place for the tender for construction work of following item(s) as specified in the list enclosed and submitting tender offers along with a Demand Draft of Rs.100/- (Rupees one hundred) Vide DD No....., dated and Rs. (Rupees) only Vide DD No....., dated drawn in favour of “Finance **Officer, WBUAFS**” payable at “**Kolkata**”. from Bank....., Branch.....

I/We namely having my/our registered office at highly glad to offer my/our lowest rate to execute the above mentioned work. My/our rate is at par, % above Schedule of rate, % below Schedule of rate.

(Strike out which is not applicable)

Further, I/We like to undertake after careful consideration of N.I.T that I/We abide by the (i) General Conditions of Contract, (ii) Specification of Work (iii) Mode of Measurement for Building, Sanitary, Plumbing and Drainage work as per State P.W.D. Schedules and for other works as per specification stated in the tender document.

The following documents are enclosed herewith for your consideration.

- i) Constitution of the company:- i.e. enlistment certificate
- ii) Solvency Certificate:
- iii) List of Work executed with completion and payment Certificates:
- iv) List of equipments:
- v) Name of the Technical personnel:
- vi) Tax clearance Certificates (P.T, S.T & I.T)
- vii) I/We enclose herewith all the tender documents duly signed by me us

In this connection we/I accept your terms & conditions specified below:

TERMS AND CONDITONS

- 1) The Principal Investigator, RKVY Project, WBUAFS reserve the right to accept or reject the Tender, partly or fully without assigning any reasons and there of. Simple submission of the lowest rate does not form a right to get a construction work order. Call of tender does not necessarily mean construction of all items.
- 2) There is No restriction to forbear any intending tenderer from submitting tenders for more than one.
- 3) No Advance will be paid against the contract. Payment will be made as per the actual work done.
- 4) The tenderer shall submit the detail programme of work and method of construction. The work shall be completed maximum of 3 (three) months i.e. 90 days / as will be specified in work order from the date of written order to commence the work.
- 5) The construction shall follow the detailed drawing to be supplied from the Office of the RKVY, Department of Veterinary Physiology, Faculty of Veterinary & Animal Sciences, WBUAFS, 37, K B Sarani, Kolkata – 700 037 during office hours on working days of the University to the lowest tender(s).
- 6) Contract documents consisting of specification drawings (to be shown in the Office of the RKVY at the above mentioned address on demand), complete specification of the schedule of items of the various classes of work to be done and the set of conditions of contract to be complied with by the Tenderers who's Tender may be accepted.
- 7) Tender shall be submitted in the form which can be obtained from web site
- 8) Amount of Security Deposit will be 10% (ten percent) of the amount of contract without any upper ceiling. In case the security deposit is above 2,00,000.00 Bank Guarantee of the amount above of Rs. 2,00,000.00 is to be furnished in the form of Bank Guarantee (in the prescribed format) in favour of the tender inviting authority.
- 9) The Bidder shall submit an earnest Money deposit of 2% of the rate quoted subject to a maximum of Rs. 50,000/- (Rupees fifty thousand) only in the form of bank draft in favour of "Finance Officer, WBUAFS" along with the Bid in a separate envelope labeled as " Earnest Money Deposit". Balanced earnest money of 2% of the quoted value shall have to be deposited by the lowest quotationer before issue of Work Order.
- 10) 1% of cess of cost of construction will be deducted from the contractor's bill employing 10 (Ten) or more construction workers on any building or other construction work. Under section – 7 of the

building and other construction workers Act. 1996 and building and other construction workers Welfare Cess Act. 1996 and the rules framed there under.

- 11) After being selected, if the party fails to honour the commitment within the stipulated period, the Earnest Money will be forfeited. Earnest Money deposited in either of the form should belong to in the name either the Proprietor of the Firm/or the Partner/Partners of the Firm, failing which the tender may be cancelled.
- 12) The Earnest Money shall be refunded to unsuccessful Tenderers without any interest thereof. No claim for delay shall be admissible.
- 13) The Security Deposit shall be collected by deduction from the running bills of the Contractor @ 10% of the value of work.
- 14) Tax Clearance Certificate is to be submitted with the Tender Form. The Contractors will have to abide by the provision of West Bengal Contract Labour (Regulation Y Abolition) Rules- 1972, as enforced during the period of the Contract. Mainly labours accommodation, sanitation, medical insurance etc., is to be provided by the Contractor.
- 15) Taxes at source will be recovered as per income Tax and West Bengal Sales tax Act/Rules as applicable.
- 16) Tenderer will clearly mention the name of work, Sl. No. & NIT No. over the sealed cover before submission of tender. All applicants will strictly follow the instructions given above. Application which does not fulfill the above mentioned points may be liable for rejection. Any sort of canvassing will also make the applicant liable for rejection.
- 17) Complete tender document with sealed covers either the name of the work and with the name and Address of the tenderer superscripted on the cover are to be submitted within the TENDER BOX kept in front of the room of the Registrar, WBUAFS. **Last date of submission of Tender is 25.03.11** upto 12 noon and **Date of Tender opening is 25.03.11** at 12:05 noon at the conference room of the University at 68, K.B.Sarani, Kolkata – 700 037, WB. The intending tenderer or their authorized representative may be present at the time of opening of tender with due permission.
- 18) Tender documents shall consist of Technical Specifications, Schedule of works with quantities, Rates, Amount any other papers agreed upon by authority of W.B. University of Animal and Fishery Sciences and the tenderer.
- 19) Each tenderer is required to go through the Schedule of rates as defined in BOQ very carefully before submission of tender and he will give a declaration in the space provided for the purpose.
- 20) The rates shall be submitted on the basis of schedule of items attached with the Tender after inspection of site. The Tenderer shall quote the rate for work by mentioning of percentage above/below or at par for the total schedule of work. Quoted rates should be in figures as well as in words. In case of any discrepancy in rates quoted in words and in figures, the lower of the two shall be taken as correct.
- 21) The said quotation is to be written in any of the Form (A), (B) or (C) below as is appropriate in page of the Tender Form and no where else.

- A) I/We agree to carry out the work mentioned in memorandum at par with the rates shown in the attached schedule of work with the quantities, rates and amount.
- B) I/We agree to carry out the work mentioned memorandum at (percent) below the rates shown in the attached schedule of work with the quantities, rates and amount.
- C) I/We agree to carry out the work mentioned memorandum at (percent) above the rates shown in the attached schedule of work with the quantities, rates and amount.
- 22) The quotation/tender rate shall be clearly & legibly written by the person signing the tender and with the same PEN & ink. ERASING OR OVERWRITING SHALL NOT BE ALLOWED. In case, it become necessary to correct the rates once within the entire quotation should be scored through and attested by full signature. A fresh quotation in appropriate Form should then be written. In the event of the tender being submitted by firm, it must be signed by a member or members of the firm having legal Authority to do so and the legal documents in support thereof must be produced along with the tender failing which the tender will be cancelled. In case of a Firm carried out by one member of a joint Hindu family it must disclose that the Firm is duly registered under Hindu Partnership Act.
- 23) The tenderer must sign the 'Declaration by the Tenderer'. The tenderer must also sign at the bottom of each page of the submitted Documents. Over writing shall not be done. All corrections admission alterations etc. must be duly signed.
- 24) No tender will be deemed to be fit for consideration unless the tender documents are fully and completely filled in. All information that may be asked for from a tender must be unequivocally furnished. Any tender which is incomplete or does not comply with the prescribed conditions contrary to those laid down here or in other tender documents, will be liable to rejection at the time of opening or during subsequent scrutiny, conditional tender will not be accepted.
- 25) Canvassing in connection with the tender is strictly prohibited and a tenderer who resorts to this will render his tender liable to rejection.
- 26) A tender once submitted shall not be withdrawn within a period of 4 (four) months from the last day of receipt of the tender, If a tenderer withdraws a tender within this period of four months without giving justifiable reason for such withdrawals to the satisfaction of the accepting authority of the tender. He shall render himself liable to be debarred from submitting any tender for works under the West Bengal University of Animal and Fishery Sciences and security deposit (Earnest Money) of the contractor shall stand forfeited and be absolutely at the disposal of WB University of Animal and Fishery sciences.
- 27) Earnest money deposited by an unsuccessful tenderer will be refunded on application to the PI, RKVY, WB University of Animal and Fishery Sciences.
- 28) The tenderer whose tender is accepted, shall within 7 (seven) days of receipt of an intimation to the effect, deposit an additional amount required which together with some amount already deposited as Earnest Money and converted into part of security deposits on acceptance of tender will be equivalent upto 2 (two) percent of the tendered amount (i.e. the estimated value of the work at contractual rate). Failing to deposit such amount end or in submission or the copies of the documents as specified herein after within the specified time shall render the contract to be transmitted without reference to the contractor and in such case the deposit security money shall stand forfeited to be department.

- 29) All legal matters will be settled within the jurisdiction of Kolkata High Court.
 30) The documents to be submitted along with the applications are as follows:-

Attested Xerox copies of

- A) Valid P. Tax Certificate P. Tax Clearance Certificate, Registration of VAT, VAT return, (current) valid PAN Card as issued by the income Tax Authority, Income Tax Return for the last 3 (three) years, balance sheet authenticated prove of resourceful, (Bank solvency certificate) deed for work value 4.00 lakhs & above).
- B) Credential Certificate of successful completion of similar nature of work (showing break-up of main items executed with amounts) along with the work order for works completed within last 3 (three) years of values not less than 50% (fifty percent) of the works applied for including mentioning time of completion of the work.
- C) Credentials of works which are in progress or payment certificates only will not be entertained. Applicants applying in more than one serial must mention their priority.
- D) When the applicant is an authorized signatory, he should submit documents of authorization in his favour with the application.
- E) In case of partnership firms, they should submit copy of PARTNERSHIP DEED with their application. Otherwise application will not be entertained.

Thanking you,

Yours faithfully,

Date:

Name of the Firm

Signature of the Contractor
 With Office Seal

Name of the Proprietor

Name of the Partner of the Firm

Address for Communication

.....

Contact Phone No. ----- Fax _____ Email: _____

CHECK LIST

1. Tender Form; 2. N.I.T No. ; 3. Drawing; 4. Constitution of Company; 5. Solvency Certificate; 6. List of work executed (a), (b) ; 7. List of equipments; 8. Name of Technical Personnel; 9. Tax Clearance Certificate; 10. Professional Tax; 11. Sales Tax (if applicable); 12. Income Tax and 13. Bank Draft for Earnest Money and Application Form Fees (separately)

**TENDERS ARE INVITED FOR FOLLOWING ITEMS WITH
RESPECTIVE SPECIFICATIONS**

ANNEXURE – I

1. Organisation of Poultry Fair at Midanpur Town

The Poultry Fair for the district of Paschim medenipur will be organized at Midanpur Town in a suitable place with the following arrangements and specifications. The fair will be organized at the end of May to mid of June, 2011. Rate is asking for organization the same in a turnkey basis.

A. Pandel – i) Total covered area of 4000 sq ft (Approx.) with stage for 25 person / arrangement of hall along with pandel (as per requirement of stall, mentioned in item ii) and provision of Chair, Table, Flower Vass, Table cloth, Inaugurating Lamp etc. at dias with podium and flower decoration along with bouquet – 20 nos. Stair - both side of the dias and also one at front. Provision of showing cinema at dias. Sufficient Fan and light arrangement at dias and audience with 4 additional power point provision other than power supply for Sound System. Provision of 500 pcs chair at audience.

ii) Inner decoration of Stall – at both side of the pandel, total 25 Nos. (Approx.) [(a) 15 nos. in one side with a size of 10' X 15' and (b) 10 nos in another side of pandel having size of 15' X 20']. There will be a provision of 5' wide protected passage in front of stalls. One Tube light, Fan (one for 'a' category and two for 'b' category stalls), one 5 amp plug point, wall covering using cloth, one table with white cloth cover and two chairs in each stall are to be supplied. One special stall with 10 spot light, Wooden bracket facility and cloth covering and 2-3 power point facility

iii) Gate – 2 pcs over the main road, Length - 30' (Approx.), Height - 20' and Wide - 4'

iv) Main Gate in front of the main pandel

B. Supply of Sound System: a. Microphone – with Stand – 4, Cordless – 2
b. Speaker – 5

C. Arrangement of Generator for the above load with sound system

D. Cage for keeping the RIR birds - Made by Bamboo thresh and support by bamboo, in tire system (stair type) – 3 tires. Size – Depth 2', wide -3' and height 2'. One opening facility at top for easy keeping of bird. - 25 sets. The birds (approximately 300 Nos.) will also be provided feed and water in each cage whole day during the day of fair.

E. Cleaning and Sweeping: Before and after the programme with arrangement of sufficient waste pot.

F. Sticker - to be printed on gum sheet (90 GSM), size - 6.5" X 4", Multi Coloured, Print in Bengali. 5000 Nos.

G. Flex preparation Size 6' x 3' (15 Nos), 10' X 4' (4 Nos.), 15' X 6' (1 No.), 7' X 1.5' (25 Nos.) and 2' X 2.5' (7 Nos.) with Art Work making, processing and printing in colour

H. Preparation of Poultry Tag- Post Card Size, Multi Coloured in Art paper, Print in Bengali – 400 nos.

I. Badge with printing - In silk cloth VIP badges Multi Coloured print in Bengali – 25 nos.

J. Carry Basket (Polythene) - Made by Polythene with Cover and Handle. Porous at the wall and Cover. Size – 12" diameter and height 7.5".- 400 Nos.

K. Preparation of Folio Bag - Two different size: i) 15" X 12" size, Black colour, Laptop carrying facility, check type cloth / materials with metallic chain and 6 pocket as per sample and ii) 15" X 12" size, Black colour, metty type cloth / materials with metallic chain and 4 pocket as per sample. All categories of bag will be printed by white colour in Bengali. Same matter will be supplied for each category. - i) 60 Nos , ii) 30 Nos

L. **Supply of drinking water:** Arrangement of drinking water 2000 liter (minimum) with drinkable facility for audience and sufficient water bottle for 25 persons at stage for 7 hours programme.

M. **Supply of Food items including servicing:**

Category	Breakfast per pkt.	Lunch per head	Tea with Snacks	Quantity
General	Puri 4pcs ./ veg.parota (3 pcs) with sabji + sweet (1pc) + Tea	(i) Rice (150 gms) and sufficient amount of dal, bhaji, sabji, fish curry, chatni, pappad with sweet (1pcs) – in packet	3 times in earthen pots	700 head
Special (A)	Chicken Patties or equivalent item – 1 pc., + Cashew – 25 gms + sweet (2pc) + Egg + Tea	(i) Rice (150 gms) and sufficient amount of dal, bhaji, sabji, fish curry, chatni, pappad with sweet (1pcs) – in packet	3 times in earthen pots	50 head
Special (B)	Sandwich – 1pc., Chicken Patties or equivalent item – 1 pc., + Cashew – 25 gms + sweet (2pc) + fruits + Egg + Tea	(i) Rice (150 gms) and sufficient amount of dal, bhaji, sabji (2 types), chicken curry, chatni, pappad with sweet (2pcs), curd – 100 gms –in dishes	5 times in cup and dish	50 head

ANNEXURE – II

2. Office Appliances

A) Camera (Approx. Qty. – 1)

DSLR D3000100 of Nikon model with lenses 18 – 55 mm VR Kit, DX format

B) Camera (Approx. Qty. – 1)

DSLR D3S of Nikon model, FX format with lenses 24 – 120 mm zoom

C) Video camera (Approx. Qty. – 1)

Sony make handycam video camera – (HDD, 240 GB), HD CAMORDER, ‘Exmor R’ CMOS Sensor, HDR – XR - 550E Model

3. Publication of Booklets

Cover: Multi Colour Printing on 250 GSM Art Board & Laminated but all pages will be 130 GSM Art paper. Total Copies of Research Highlight will be 160 and the delivery will be made at Belgachia. i) No. of pages : 80 to 100 Pages Black & White, Single Colour Printing & 20 Pages 4 Colour Printing
ii) Paper : 21.3 Kg Maplitho Black & White Printing 130 Gsm Art Paper 4 Colour Printing

4. Instruments

Electronic Somatic Cell Count – with Fluorescence flow cytometry

ANNEXURE – III

CONSTRUCTION WORKS

5. Cable Laying at the Poultry Breeding Farm Complex under RKVY, WBUAFS at Mohanpur Campus

Sl. No.	Name of work	Qty.	Rate in Rs.	Unit	Amount
1.	Supplying and Laying of Aluminium Armer Cable through under ground trench	310 mtrs.	@Rs.230.00	Per mtrs	Rs.71300.00
	i) 2 core 16 Sqmm(AL) cable	110 mtrs	@Rs.335.00	Per mtrs.	Rs.36850.00
	ii) 4 core 16 Sqmm(AL) cable	415 mtrs	@Rs.428.00	Per mtrs.	Rs.177620.00
	iii) 3½ core 35 Sqmm (AL)	175 mtrs.	@Rs.588.00	Per mtrs.	Rs.101500.00

	cable iv) 3½ core 50 Sqmm(AL) cable v) 3½ core 70 Sqmm(AL) cable	245 mtrs	@Rs.780.00	Per mtrs.	Rs.191100.00
2.	Supply and fixing compression type cable gland and finishing of the cable end by crimping socket a)2 core 16 Sqmm b)4 core 16 Sqmm c)3½ core 35 Sqmm d) 3½ core 50 Sqmm e) 3½ core 70 Sqmm	40 sets 40 sets 64 sets 8 sets 10 sets	@Rs.48.00 @Rs.92.00 @Rs.133.00 @Rs.133.00 @Rs.133.00	Set Set Set Set Set	Rs.1920.00 Rs.3680.00 Rs.8512.00 Rs.1064.00 Rs.1330.00
3.	Supply & Laying G.I. production pipe 50mm dia for Road/Drain etc.	30 mtrs.	@Rs.333.00	Mtrs.	Rs.9990.00
		Total (Rupees Six lakh four thousand eight hundred sixty six) only			Rs.604866.00

6. Electrical Installation of the Physiology Department Building under RKVY, WBUAFS at Mohanpur Campus

Sl. No.	Description of work	Qty.	Unit	Rate in Rs.	Amount in Rs.
1.	Supply & Fixing Sheet metal enclosure of 12 way double door SPN MCBDB in flat/iron frame on wall. The MCBDB should be comprised of 10 nos. (6-30A) SP MCB (10 KA breaking capacity) and 1 no. 63A dp MCB isolator and making necessary connections (Simens for all items)	3	Set	3550.00	10650.00
2.	Supply & Fixing Sheet Metal enclosure of 12 way double door TPN MCB. Power DB in flat Iron frame on wall. The MCBDB should be comprised of 12 Nos. 32 Amp SP MCB 20 KA Breaking capacity and 1 no 100 Amp TPN MCB Isolator and making necessary Connections	2	Set	6375.00	12750.00

3.	Distribution wiring in 2x1.5sqmm. PVC (FR) and 1x1 sqmm earthing insulated copper through PVC casing including S&F of PVC casing to light/fat call bell (Av Run 10 mtr)	73	Pt	789.00	57597.00
4.	Do—So—to 5 A Plug point on Switch Board	10	Pt	180.00	1800.00
5.	S & Laying 2 x 2.5sqmm and 1x1sqmm PVC conduit (PVC Casing partly is embedded in wall partly on wall (For power plug only)	100	Mtrs.	109.00	10900.00
6.	S & Laying 2 x 4sqmm and 1x1sqmm PVC conduit (PVC Casing partly is embedded in wall partly on wall (For power plug only)	80	Mtrs.	166.00	13280.00
7.	Supply & Fixing M.S. Box (8"x12") with bakelite top cover and consisting of 1 no. 15A plug socket with 15A piano switch and 1 no. indicator lamp	8	Nos.	750.00	6000.00
8.	Supply & Fixing Angle Fluo fitting with 2 nos. E.I. conduit (25 cm) long suspended from ceiling ball socket etc. on ceiling incl. S & F 1 no. 40A tube	23	Nos.	900.00	20700.00
9.	Supply & Fixing Exhust Fan 12" dia / Orient PSPO	3	Nos.	1850.00	5550.00
10.	Supply & fixing of 48" AC celing Fan Orient PSPO Make	17	Nos	1425.00	24225.00
11.	Supply & fixing of 200 Amp TPN 440Volt HRBC Fuse Havel's make Main switch	1	No	13800.00	13800.00
12.	Supply & fixing of 200 Amp TPN 440 volt Havel's make change over switch	1	No	14750.00	14750.00
		Total (Rupees One lakh Ninety Two Thousand Two only)			192002.00

7. Electrical Installation of the Brooder House Layer House, Isolation Shed, Incinator & Feed Godown under RKVY, WBUAFS at Mohanpur Campus

Sl. No.	Description of work	Qnty.	Unit	Rate in Rs.	Amount in Rs.
1.	Providing a cubical type panel of 14 SWG M.S. Sheet and here should have cable entry and inside and outside of	1	Item	@54000.00	54000.00

	<p>the cable to be painted by 2 coats of R.O. Primer and 2 coats of synthetic Enamel paint and consisting of following Electrical Accessories</p> <p>a) Incoming 200A TPNIC Main Switches (Simens make) 1 nos. 250A 4 Bar Copper Busbar-1 Set</p> <p>b) Outgoing 63A TPNIC Main Switches (Simens make) 7 nos. 32A TPNIC Main Switches (Simens make) 2 nos. 32A TPNIC Main Switches (Standard make) 1 Nos. Pilot Lamp with Fuse (LED Type) 3 Nos 0-500V voltmeter with selector Switch (AE Make Special Type)-1 set 0-200A Meter 3 phase with selector digita type switch and CT connection by suitable size Copper Wire with Copper socketing-1 item Danger Board (8"x12")-1 No. Suitable size of Cable and Box i.e. 5 Nos. throat Boxes complete-1 Set</p>				
2.	<p>Providing a cubical type panel of 14 SWG M.S. Sheet and here should have cable entry and inside and outside of the cable to be painted by 2 coats of R.O. Primer and 2 coats of synthetic Enamel paint and consisting of following Electrical Accessories</p> <p>a) Incoming 200A TPNIC Main Switches (Simens make) 1 nos. 250A 4 Bar Copper Busbar-1 Set</p> <p>b) Outgoing 63A TPNIC Main Switches (Havel's make) 3 nos. 32A TPNIC Main Switches (Havel's make) 2 nos. Pilot Lamp with Fuse (LED Type) 3 Nos</p>	1	Item	@36000.00	36000.00

	0-500V voltmeter with selector Switch (AE Make Special Type)-1 set 0-200A Meter 3 phase with selector digita type switch and CT connection by suitable size Copper Wire with Copper socketing-1 item Danger Board (8"x12")-1 No. Suitable size of Cable and Box i.e. 5 Nos. throat Boxes complete-1 Set				
3.	Supply & Fixing of 4 x 19/14 PVC Insulated copper (1.5 Mtr) including the finishing the end of Copper Wire by Crimping Method	2	Set	@3000.00	6000.00
4.	Supply & Fixing Sheet Metal enclosure of 12 way double door SPN MCBDB in flat/iron frame on wall. The MCBDB should be comprised of 10 nos. (6-30A) SP MCB (10KA breaking capacity) and 1 no. 63A dp MCB Isolator and making necessary connections (Simens for all items)	3	Set	@3550.00	10650.00
5.	Distribution wiring in 2x1.5sqmm. PVC (FR) and 1x1 sqmm. Earthing insulated copper through PVC casing including S&F of PVC casing to light/fan call bell (AV Run 10 mtr.)	55	Pt	789.00	43395.00
6.	Do—So—to 5 A Plug point on Switch Board	12	Pt.	180.00	2160.00
7.	S & Laying 2x2.5sqmm and 1x1sqmm PVC conduit PVC casing partly is embedded in wall partly on wall (for power plug only)	60	Mtrs.	109.00	6540.00
8.	S & Laying 2x4sqmm and 1x1sqmm PVC conduit PVC casing partly is embedded in wall partly on wall (for power plug only)	170	Mtrs.	166.00	28220.00
9.	Supply & Fixing M.S. Box (8"x12") with bakelite top cover and consisting	12	Nos.	750.00	9000.00

	of 1 no. 15A plug socket with 15A piano switch and 1 no. indicator lamp				
10.	Supply & Fixing Angle Fluo fitting with 2 nos. E.I. conduit (25cm) long suspended from ceiling ball socket etc. on ceiling incl. S & F 1 no. 40A tube	32	Nos.	900.00	28800.00
11.	Supply & Fixing of 250 W SNF fitting (Philips make) Cat No.SRP 308/70(E) with all accessories incl. S & F of 250W Son/T Lamp	5	Nos.	9980.00	49900.00
12.	Earthing with 2" dia G.I. Pipe as per GS	8	Nos.	2000.00	16000.00
13.	Supply & fixing of CFL Lamp	4	Nos.	230.00	920.00
14.	Supply & fixing Arm Braket	5	Nos.	1250.00	6250.00
15.	Supply & fixing of AICP fitting (Philips) with Braket	2	Nos.	2200.00	4400.00
	Total (Rupees three lakhs two thousand and two hundred thirty five) only				302235.00

8. Electrical Installation at Poultry Training Institute, Germplasm Unit, Kitchen cum Dining of PTI under RKVY, WBUAFS at Mohanpur Campus

Sl. No.	Description of work	Qnty.	Unit	Rate in Rs.	Amount in Rs.
1.	Providing a cubical type panel of 14 SWG M.S. Sheet and here should have cable entry and inside and outside of the cable to be painted by 2 coats of R.O. Primer and 2 coats of synthetic Enamel paint and consisting of following Electrical Accessories a) Incoming 200A TPNIC Main Switches (Simens make) 1 nos. 250A 4 Bar Copper Busbar-1 Set b) Outgoing 63A TPNIC Main Switches	1	Iten	54000.00	54000.00

	<p>(Havel's make) 7 nos. 32A TPNIC Main Switches (Havel's make) 2 nos. 32A TPNIC Main Switches (Havel's make) 1 Nos. Pilot Lamp with Fuse (LED Type) 3 Nos 0-500V voltmeter with selector Switch(AE Make Special Type)-1 set 0-200A Meter 3 phase with selector digita type switch and CT connection by suitable size Copper Wire with Copper socketing-1 item Danger Board (8"x12")-1 No. Suitable size of Cable and Box i.e. 5 Nos. throat Boxes complete-1 Set</p>				
2.	<p>Providing a cubical type panel of 14 SWG M.S. Sheet and here should have cable entry and inside and outside of the cable to be painted by 2 coats of R.O. Primer and 2 coats of synthetic Enamel paint and consisting of following Electrical Accessories</p> <p>a) Incoming 400A TPNIC Main Switches (Simens make) 1 nos. 400A 4 Bar Copper Busbar-1 Set</p> <p>b) Outgoing 63A TPNIC Main Switches (Havel's make) 7 nos. 32A TPNIC Main Switches (Havel's make) 2 nos. 32A TPNIC Main Switches (Havel's make) 1 Nos. Pilot Lamp with Fuse (LED Type) 3 Nos 0-500V voltmeter with selector Switch(AE Make Special Type)-1 set 0-200A Meter 3 phase with selector digita type switch and CT</p>	1	Item	63000.00	63000.00

	connection by suitable size Copper Wire with Copper socketing-1 item Danger Board (8"x12")-1 No. Suitable size of Cable and Box i.e. 5 Nos. throat Boxes complete-1 Set				
3.	Providing a cubical type panel of 14 SWG M.S. Sheet and here should have cable entry and inside and outside of the cable to be painted by 2 coats of R.O. Primer and 2 coats of synthetic Enamel paint and consisting of following Electrical Accessories a) Incoming 200A TPNIC Main Switches (Simens make) 1 nos. 250A 4 Bar Copper Busbar-1 Set b) Outgoing 63A TPNIC Main Switches (Havel's make) 3 nos. 32A TPNIC Main Switches (Havel's make) 1 no. 32A TPNIC Main Switches (Havel's make) 1 Nos. Pilot Lamp with Fuse (LED Type) 3 Nos 0-500V voltmeter with selector Switch(AE Make Special Type)-1 set 0-200A Meter 3 phase with selector digita type switch and CT connection by suitable size Copper Wire with Copper socketing-1 item Danger Board (8"x12")-1 No. Suitable size of Cable and Box i.e. 5 Nos. throat Boxes complete-1 Set	1	Item	36000.00	36000.00
4.	Supply & Fixing of 4x19/14 PVC insulated copper (1.5 mtr) including the finishing the end of copper wire by Crimping Method	3	Set	3000.00	9000.00
5.	Supply & Fixing Sheet Metal enclosure of 12 way double door	5	Set	3550.00	17750.00

	SPN MCBDB in flat/Iron frame on wall. The MCBDB should be comprised of 10 nos. (6-30A) SP MCB (10KA breaking capacity) and 1 no. 63A dp MCB Isolator and making necessary connections (Simens for all items)				
6.	Distribution wiring in 2x1.5sqmm. PVC (FR) and 1x1 sqmm. Earthing insulated copper through PVC casing including S&F of PVC casing to light/fan call bell (AV Run 10 mtr.)	145	Pt	789.00	114405.00
7.	Do—So--to 5 A Plug point on Switch Board	15	Pt	180.00	2700.00
8.	S & Laying 2 x 2.5sqmm and 1x1sqmm PVC conduit (PVC Casing partly is embedded in wall partly on wall (For power plug only)	150	Mtrs.	109.00	16350.00
9.	Supply & Fixing M.S. Box (8"x12") with bakelite top cover and consisting of 1 no. 15A plug socket with 15A piano switch and 1 no. indicator lamp	45	Nos.	750.00	34800.00
10.	Supply & Fixing 48" sweeping A.C. Ceiling Fan incl. al accessories (Oeient/ Polar make)	12	Nos.	1425.00	17100.00
11.	Supply & Fixing of 12" dia Exhaust Fan 1420 RPM with louver shutter (EOC make) incl. making holes to GS.	8	Nos.	1850.00	14800.00
12.	Supply & Fixing Angle Fluo fitting with 2 nos. E.I. conduit (25 cm) long suspended from ceiling ball socket etc. on ceiling incl. S & F 1 no. 40A tube	25	Nos.	900.00	22500.00
13.	Supply & Fixing Electronic Regulator 400W on Switch board incl. making connection (Step type)	12	Nos.	212.00	2544.00
14.	Supply & Fixing of 250 wt SNF fitting (Philips make) with all accessories incl. S & F of 250 W SON/T Lamp	5	Nos.	9980.00	49900.00
15.	Earthing the 2" dia G.I. Pipe as	10	Nos.	2000.00	20000.00

	per GS				
16.	Supplying & Fixing of Arm Brket for Metal Light	5	Nos.	1250.00	6250.00
17.	Supply & Fixing of Braket fittings	6	Nos.	800.00	4800.00
18.	Supply & Fixing of wall fittings	16	Nos.	850.00	13600.00
19.	Supply & fixing of Bathroom fitting	6	Nos.	750.00	4500.00
20.	Supply & fixing of celing fitting	2	Nos.	500.00	1000.00
21.	Supply & fixing of CFL Lamp 18wt	36	Nos.	230.00	8280.00
22.	Supply & fixing of 400 Amp TPN 440 volt Havel's make change over switch	1	No.	18950.00	18950.00
23.	Supply & laying 2x4 sqmm and 1x1 sqmm copper wire PVC casing wiring is embedded in wall partly on wall power plug only	80	Mtr.	166.00	13280.00
		Total Five lakh forty five thousand five hundred nine only)			545509.00

9. ELECTRIC & GENERATOR ROOM WITH OVER HEAD TANK under RKVY, WBUAFS at Mohanpur Campus

BOQ FOR THE PROPOSED ELECTRIC & GENERATOR ROOM WITH OVER HEAD TANK					
		UNIT	Quantity	RATE (Rs.)	AMOUNT (Rs.)
1.0	EARTHWORK :				
1.1	Earth work in excavation of foundation trenches or drains in all sorts of soil (including mixed soil but excluding laterite or sandstone) including removing, spreading or stacking the spoils within a lead of 75 m as directed. The item includes necessary trimming the sides of trenches, levelling dressing and ramming the bottom, bailing out water as required complete.				
	(a) Depth of excavation not exceeding 1500 mm	Cu.M.	25.00	73.29	1832.25
1.2	Earth work in filling in foundation trenches or plinth with good earth in layers not exceeding 150 mm including watering and ramming etc. layer by layer complete (Payment to be made on the basis of measurement of finished quantity of work)				
	(a)With earth obtained from excavation of foundation.	Cu.M.	9.00	47.36	426.24

1.3	Filling in foundation or plinth by local sand in layers not exceeding 150 mm as directed and consolidating same by thorough saturation with water ramming complete, including the cost of supply of sand (Payment to be made on measurement of finished quantity)				
	(a) Fine sand	Cu.M.	2.50	630.38	1575.95
1.4	Antitermite treatment to column pits, walls trenches, foundation, plinth filling etc.as shown in Dwg.using chemicals conforming to IS as per specifications and instruction of Engineer (Rate to be quoted per Sq.M of plinth area)	Sq.M.	18.00	98.00	1764.00
1.5	25 mm thick damp proof course with cement concrete (3:1.5:1) (with graded stone chips 10 mm normal size) and admixture of water proofing compound as per manufacturer's specification followed by two coats of polymer based paint (1st coat after 4 to 5 days of concrete laying and 2nd coat just before brick masonry work) as directed (cost of water proofing compound & polymer based paint to be paid separately)	Sq.M.	4.00	162.27	649.08
2.0	PLAIN AND REINFORCED CONCRETE AND ALLIED WORKS :				
2.1	Cement Concrete (6:3:1) with graded stone chips (20 mm size) excluding shuttering below floors and other places wherever required as directed by the Engineer in charge.	Cu.M.	3.38	3993.60	13498.37
2.2	Ordinary Cement Concrete M-20 with graded stone chips (20 mm size) excluding shuttering and reinforcement, if any in Gr. Floor and foundation	Cu.M.	28.37	5265.00	149368.05
2.3	Hire and labour charges for shuttering with centering and necessary staging using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works .				
	(a) 25 mm to 30 mm thick wooden shuttering without staging in foundation.	Sq.M.	182.50	162.42	29641.65

2.4	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position with chairs and spacers. and binding with 16 gauge black annealed wire at every inter-section, complete as per drawing and direction.				
	No extra payment will be made for chairs& spacers.				
	i) Tor steel / Mild steel	M.T.	2.25	55888.86	125749.94
3.0	MASONRY AND ALLIED WORKS :				
3.1	Single brick flat soling of picked jhama bricks including ramming and dressing bed to proper level and filling joints with powdered earth or local sand.	Sq.M.	33.55	241.20	8092.26
3.2	Brick work with 1st class bricks in sand cement mortar (6:1) of (class designation 75)				
	(a) In foundation and plinth.	Cu.M.	1.20	3831.17	4597.40
	(b) In superstructure .	Cu.M.	7.85	4327.77	33972.99
3.3	125 mm thick brick work with 1st class bricks (class designation 75) in cement mortar (4 : 1) and using H.B. netting in every third layer at any floor.	Sq.M.	18.00	601.43	10825.74
3.4	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating nosing and drip course where necessary				
	(i) With 6 : 1 cement mortar				
	(a) 20 mm. thick plaster	Sq.M.	90.00	146.19	13157.10
	(b) 15 mm. thick plaster	Sq.M.	55.00	124.75	6861.25
	(ii) With 4 : 1 cement mortar				
	(a) 10 mm thick plaster	Sq.M.	20.00	95.78	1915.60

4.0	FLOOR FINISH AND ALLIED WORKS:				
4.1	Neat cement punning about 1.5 mm thick in wall, dado, window, sills, floor, drain etc.	Sq.M.	68.00	28.33	1926.44
5.0	PAINTING, WHITEWASHING, POLISHING ETC.				
5.1	White washing including cleaning and smoothening surface thoroughly				
	Internal Wall (Two coats)	%Sq.M.	75.00	1120.09	840.07
	External Wall (Two coats)	%Sq.M.	90.00	1120.09	1008.08
5.2	colour washing with a coat of white wash priming including cleaning and smoothening surface thoroughly				
	i) Internal wall (two coats)	%Sq.M.	75.00	1373.60	1030.20
	ii) External wall (two coats)	%Sq.M.	90.00	1396.83	1257.15
6.0	STEEL WORKS :				
6.1	Supplying, fitting & fixing aluminium windows / ventilators fabricated out of sections manufactured by HINDALCO or equivalent ,minimum15 microns thick colour anodised of approved shade including fixing glass with all necessary fixtures like hinges, stays, handles, glazing clips of extruded quality, sealing the gap between masonry / concrete with polysulphide sealant as per drawings, specification complete with all materials (except glass) as per direction of Engineer-in-charge.				
	(a) Glazed aluminium sliding window.	Sq.m.	2.50	2959.00	7397.50
6.2	Supplying, fitting and fixing M.S. or W.I. ornamental grill of approved design joints continuously welded with M.S., W.I. flats, bars & pipes for windows, railing etc. fitted and fixed with necessary screws and lugs .				
	(i) Grill weighting above 10 kg./sq.m. and upto 16 kg./sq.m.	Kg.	30.00	67.65	2029.50
6.3	Rolling shutter weighting 25 kg/sq.m and upto 30 kg/sq.m	Kg.	262.08	67.65	17729.71
6.4	chekar plate (weighting above 2 kg/sq.ft)	Kg.	40.00	67.65	2706.00
7.0	ROOF WATER PROOFING AND ALLIED WORKS :				
7.1	Providing and laying avg.45 mm. thick screed concrete in roof of proportion (1:2:4) with 12 mm.down stone chips including mixing curing etc. complete as per specification & direction of the Engineer-In-Charge.	Sq.M.	40.00	370.00	14800.00

8.0	Supplying, fitting and fixing G.I. Pipes of TATA make with all necessary accessories, specials viz. Socket, bend, tee, union, cross, elbow, nipple. Long screw, reducing socket, reducing tee, short piece etc. concealed in masonry wall, including cutting pipes, making threads, fitting, fixing etc complete in all respect including cost of all necessary fittings as required, jointing materials and two coats of painting with approved paint in any position above ground. Internal work- exposed on wall				
8.1	i) 50 mm dia. Medium quality(OUTLET)	metre	5	397.76	1988.82
	ii) 32 mm dia. Medium quality(INLET)	metre	5	306.30	1531.49
	iii) 20 mm dia. Medium quality(OVER FLOW)	metre	3	107.7	323.10
9.0	providing manhole for the over head tank	Nos.	2	3000	6000.00
10.0	Iron treatment plant (quote rate)				QUOTE RATE
	Total amount				464495.929 Say 4,64,496.00
(Rupees four lakh sixty four thousand four hundred ninety six only)					

10. EARTH FILLING under RKVY, WBUAFS at Mohanpur Campus

PROPOSED ESTIMATE FOR EARTH FILLING

		UNIT	Quantity	RATE (Rs.)	AMOUNT (Rs.)
1.0	EARTH WORK FILLING IN FOUNDATION				
1.1	Earth work in filling in foundation trenches or plinth with good earth, in layers not exceeding 150mm. Including watering and ramming etc. layer by layer complete.(Payment to be made on the basis of measurement of finished quantity work)				
	i) with carried earth arranged by the contractor within a radius exceeding 3 km. but not exceeding 5km. Including the cost of carried earth.	Cu.m	1128.37	309.07	348745
	ii) With carried earth arranged by the contractor within a radius exceeding 5 km. but not exceeding 10km.including cost of carried earth.	Cu.m	1128.37	383.44	432662
	TOTAL COST (Rupees seven lakh eighty one thousand four hundred eight) only				7,81,408.00

11. MUSEUM (2ND FLOOR) under RKVY, WBUAFS at Mohanpur Campus

PROPOSED ESTIMATE FOR MUSEUM (2ND FLOOR)

		UNIT	Quantity	RATE (Rs.)	AMOUNT (Rs.)
1.0	PLAIN AND REINFORCED CONCRETE AND ALLIED WORKS :				
1.1	Controlled Cement Concrete Grade M25 mix with well graded stone chips (20 mm grade) excluding shuttering and reinforcement, with complete design of concrete as per IS-456 and relevant special publications, submission of job mix formula after preliminary mix design after testing of concrete cubes as per direction of Engineer-in-charge. Consumption of cement will not be less than 300 Kg.of cement per cubic meter of controlled concrete but actual consumption will be determined on the basis of preliminary test and job mix formula .In foundation & Gr floor. (using concrete mixture). M-25 Grade.	Cu.M.	158.00	6036.84	953820.72
1.2	Hire and labour charges for shuttering with centering and necessary staging using approved stout props and thick hard wood planks of approved thickness with required bracing for concrete slabs, beams, columns, lintels curved or straight including fitting, fixing and striking out after completion of works .				
	(a) 25 mm to 30 mm thick wooden shuttering without staging in foundation.	Sq.M.	1124.00	162.42	182560.08
1.3	Reinforcement for reinforced concrete work in all sorts of structures including distribution bars, stirrups, binders etc. including supply of rods, initial straightening and removal of loose rust (if necessary), cutting to requisite length, hooking and bending to correct shape, placing in proper position with chairs and spacers. and binding with 16 gauge black annealed wire at every inter-section, complete as per drawing and direction.				
	No extra payment will be made for chairs& spacers.				
	i) Tor steel / Mild steel	M.T.	23.00	55888.86	1285443.78
2.0	MASONRY AND ALLIED WORKS :				
2.1	Brick work with 1st class bricks in cement mortar (6:1) of (class designation 75)				
	In superstructure .	Cu.M.	197.00	4327.77	852570.69

2.2	125 mm thick brick work with 1st class bricks (class designation 75) in cement mortar (4 : 1) and using H.B. netting in every third layer at any floor.	Sq.M.	122.00	601.43	73374.46
2.3	Plaster (to wall, floor, ceiling etc.) with sand and cement mortar including rounding off or chamfering corners as directed and raking out joints or roughening of concrete surface, including throating nosing and drip course,scaffolding/staging where necessary (upto 4th floor)				
	(i) With 6 : 1 cement mortar				
	(a) 25 mm. thick plaster	Sq.M.	596.00	146.19	87129.24
	(b) 20 mm. thick plaster	Sq.M.	761.00	124.75	94934.75
	(ii) With 4 : 1 cement mortar				
	(a) 10 mm thick plaster	Sq.M.	450.00	95.78	43101.00
3.0	FLOOR FINISH AND ALLIED WORKS:				
3.1	Supplying and laying true to line and level vitrified of approved brand (size not less than 600mm x 600mm x 10mm thick) in floor, skirting etc. set in 20 mm sand cement mortar (1:4) and 2 mm thick cement slurry back side of tiles using cement @ 2.91 kg/m ² or using polymerized adhesive (6 mm thick layer applied directly over finished artificial stone floor/Mosaic etc without any backing course) laid after application slurry using 1.75 kg of cement per m ² below mortar only, joints grouted with admixture of white cement and colouring pigment to match with colour of tiles / epoxy grout material of approved make as directed and removal of wax coating of top surface of tiles with warm water and polishing the tiles using soft and dry cloth upto mirror finish complete including the cost of materials , labour and all other incidental charges complete true to the manufacturer's specification and direction of Engineer-in-charge				
	(i) with application slurry@ 1.75 kg/m ² , 20 mm sand cement mortar (1:4) & 2mm thick cement slurry at back side of tiles, 0.2kg/m ² white cement for joint filling with pigment.				
	(A) Deep colour & white	Sq.M.	420.00	1442.19	605719.80
3.2	Applying, fitting & fixing 1st quality anti skid Ceramic tiles of any size having mat finish in walls and floors including orders to match with the existing work, set in cement sand mortar (1:4) including backing concrete (1:2:4) & 4 nos. of key stones (10mm) fixed with araldite at the back of each tile & finishing the joints with white cement mixed with colouring oxide of required to match colour of tiles other than white (Toilet/kitchen/balcony).	Sq.M.	65.00	729.93	47445.45

3.3	20 mm. to 25 mm. thick , kota stone slab set in lime mortar (2:1) or cement mortar (4:1) including levelling course with same mortar as required in floor,steps and window sill including pointing in cement mortar (1:2) (1cement :2stone dust) with admixture of pigment matching the stone shade, including grinding & polishing as per direction of the Engineer-in-charge at all floors. (overall thickness 40 mm in floors).	Sq.m.	34	833.76	28347.84
3.4	Extra for Kota stone in trades of steps and risers using single length up to 2.0m	Sq.m.	17	15.00	255.00
3.5	Extra for finished nosing in treads of steps of Kota stone including ointin additional strip at bottomkotastonestepointinwitaddesive	metre	45	45.00	6.00
4.0	PAINTING, WHITEWASHING, POLISHING ETC.				
4.1	Rendering the surface of the walls and ceiling with Birla white cement putty of approved make and brand (thickness not less than 1.5 mm.) and smoothing with sand paper	Sq.M.	1325.00	71.61	94883.25
4.2	Applying Interior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive acrylic emulsion paint including scrapping and preparing the surface thoroughly, complete as per manufacturer's specification and direction of the Engineer-in-charge .----- Two coats				
	Water based interior Acrylic primer	Sq.M.	1280.00	36.56	46796.80
4.3	Applying Acrylic Emulsion Paint of approved make and brand on walls and ceiling including sand papering in intermediate coats including putty (to be done under specific instruction of Engineer-in-charge) :				
	(two coat)				
	Standard Quality	Sq.M.	1211.00	49.59	60053.49
4.4	Applying Exterior grade Acrylic primer of approved quality and brand on plastered or concrete surface old or new surface to receive acrylic exterior emulsion paint including scrapping and preparing the surface thoroughly, complete as per manufacturer's specification and direction of the Engineer-in-charge at all elevations.----- Two coats	Sq.M.	596.00	37.27	22212.92

4.5	Protective and decorative Acrylic Finish Exterior emulsion Paint of approved quality, as per manufacturer's specification and as per direction of Engineer-in-charge to be applied over a acrylic primer as required .The rates includes the cost of materials, labour, scaffolding and all others incidental charges but excluding the cost of primer .				
	Two or more coats to give an even shade.				
	Premium 100% Acrylic Emulsion	Sq.M.	550.00	72.52	39886.00
4.6	Painting with best quality synthetic enamel paint of approved make and brand including smoothening surface by sand papering etc.including using of approved putty etc. on the surface , if necessary:	Sq.M.	127.00	72.52	9210.04
4.7	Oil bound distemper (synthetic) to interior wall ,ceiling with two coat of primer (as per manufacturer's specification) including cleaning, smoothening surface (two coats)(at all elevations. to be done under specific instruction).	Sq.m.	880	57.53	50626.40
5.0	ALUMINIUM , STEEL AND ALLIED WORKS :				
5.1	Aluminium Work				
	Supplying, fitting & fixing aluminium windows / ventilators fabricated out of sections manufactured by HINDALCO or equivalent ,minimum15 microns thick colour anodised of approved shade including fixing glass with all necessary fixtures like hinges, stays, handles, glazing clips of extruded quality, sealing the gap between masonry / concrete with polysulphide sealant as per drawings, specification complete with all materials (except glass) as per direction of Engineer-in-charge.				
	(a) Glazed aluminium sliding window.	Sq.m.	112	2959.00	331408.00
5.2	Supplying, fitting and fixing M.S. or W.I. ornamental grill of approved design joints continuously welded with M.S., W.I. flats, bars & pipes for windows, railing etc. fitted and fixed with necessary screws and lugs .				
	(i) Grill weighing above 10 kg./sq.m. and upto 16 kg./sq.m.	Kg.	1583	67.65	107089.95
6.0	ROOF WATER PROOFING AND ALLIED WORKS :				
6.1	Providing and laying avg.45 mm. thick screed concrete in roof of proportion (1:2:4) with 12 mm.down stone chips including mixing curing etc. complete as per specification & direction of the Engineer-In-Charge.	Sq.M.	420.00	370.00	155400.00

6.2	Providing and applying one coat SIKA TOP SEAL 109 membrane over screed concrete on the top of the SIKA FAB1 fabric, to be done with 20mm overlap along entire length wherever necessary. After application of first coat of the membrane and fabric application, allow the membrane to harden. A final coat of SIKA TOP SEAL 109 Hi membrane tube applied over flat /sloped surface of roof including fillets, sides of the openings etc. as per manufacturer's specification and Engineer in charge.	Sq.M.	420.00	550.00	231000.00
TOTAL CIVIL COST					5403275.66
7.0	1.INTERNAL WATER SUPPLY & PLUMBING @4% OF CIVIL COST AS PER CPWD				216131.03
8.0	2.EXTERNAL SERVICE CONNECTION @5% OF CIVIL COST AS PER CPWD.				270163.78
9.0	3. ELECTRICAL (12.5% OF CIVIL COST)				675409.46
TOTAL COST OF PROJECT					6564979.93
					Say
(Rupees sixty five lakh sixty four thousand nine hundred eighty only)					6564980.00

ANNEXURE – IV

12. Establishment of :

- (a) **Video Conferencing (VC) System under RKVY, WBUAFS**
- (b) **Design And Development of Furnished Room with Acoustic management facility at one (1) Locations for the VC under RKVY, WBUAFS**

Schedule – A

Sealed Tenders are invited for the supply and integration/implementation of above mentioned work(s) from OEM / System Integrators with sufficient credentials and sound financial background having experience of similar quantities and qualities of work (documents to be submitted). The Tender document fees should be submitted along with **Techno Commercial Bid** in separate envelopes.

Scope of Work

Video conferencing facility shall be implemented at the following locations:

ARD Head Quarter, LB-2, Sector-III, Salt Lake City, Kolkata – 700 098

An Internet Leased line is terminated at the Project HQ. In order to optimize the use for the Internet, the remote site is accessing Internet and emailing through the Project HQ via the BSNL Leased Line connections. Further, at the central site (Project HQ) there is a file server that will serve as a data and video repository (text, and multimedia – including images, video and voice/audio) which can be accessed from the remote site. Other services, like FAX, IP telephony, live support, blog development etc is also hosted at the Project HQ and used/accessed from the remote locations. Any investigator of this project will be allowed to this server/repository from anywhere in the country for editing or adding if allowed by the network/systems administrator or as per the access policy.

The proposal/offer from the bidders should be submitted in a manner, where compliance to the specifications for all equipment/instruments including –, Desktop PCs, VC kits, speakers, microphones, projector, interactive white board, etc., should be clearly mentioned and submitted in tabular format by the bidder. Deviations, if any, to the desired technical requirements as given below should be clearly mentioned in the compliance document to be submitted by the bidder. The price bid to be submitted in a separate sealed envelope as instructed below, should have the price/unit and applicable taxes/duties clearly mentioned. Failure to comply with these criterions may result in outright rejection of the bid.

The bidders shall furnish their credentials along with tender specific authorization from the Manufacturer/OEM for the respective equipments. The prescribed formats for furnishing these details are given as Annexure at the end of this document.

The location as mentioned above, fully furnished Video Conferencing Room is needed to be developed namely – **ARD Head Quarter, LB-2, Sector-III, Salt Lake City, Kolkata – 700 098**

The Bid Document should also include supply and job works of Items/ materials as required for the establishment of video conferencing room at the said sites with at least one year warranty for all items supplied. The bidders shall also extend one year warranty for the civil/architectural job works rendered in designing, developing of the Video Conference Rooms. In other words, apart from the networking and VC equipments, the bidder shall also offer one year's warranty on the job works/services rendered for developing and setting up of rooms for video conferencing, the bidders should offer at least one year warranty on the following:

- a) Supply of all materials for the development of video conferencing (VC) room
- b) Job works for development of the VC room

The rates for items listed in Annexure-H and all those items and accessories deemed necessary and not explicitly covered in BOQ including material/consumables and services required for supply, erection, setting up of world class Video Conferencing Rooms as per industry standard video conferencing room designs and developments shall be deemed included in item rates. For all items under Annexure-H, it is not necessary to follow the price schedule format as outline in Annexure-F. The bidder may use their own format, provided the items and services rates are clearly outlined along with a separate column for detailing the applicable taxes/levies.

The work should be done to prepare a fully furnished video conferencing room of area of 26'x21' sq ft

At Site sitting arrangement should be at least 25 persons forming the audience and rest 4 sitting arrangements for the executives / presenters / professors / faculties / other dignitaries or delegates. The design of the room should be made in such a way so that it serves the purpose of conference room as well as a training room. The arrangement should be done in such a way, that each individual is able to get the perfect view of the screen /trainer and will be able to get proper audio clarity. The proper lighting affect should also be kept in mind so that video presentations on the TV/screens do not get blurred due to excess lighting or other hindrances. Audience chair should be comfortable, and a writing space conjoined to the chairs should be provided. The chairs for the executives/presenters/professors/faculties/other dignitaries or delegates should be comfortable and adjustable. The sound proofing of the room must be accomplished so that there is no echo. The positioning of the furniture should be done in such a way so that the room should have enough space to move around. The ergonomics should also be kept in mind.

The entire civil work includes flooring; wall paneling & proper wall/ceiling painting; electrical & lightings including power points and air conditioning and carpentry.

ELIGIBILITY CRITERIA FOR PARTICIPATION IN THE TENDER (Schedule-A)

- (i) The bidder shall furnish the documentary evidence that he has financial, technical capability necessary to supply the items mentioned herein and carry out the job works required for successful implementation of the proposed project.
- (ii) The bidder shall furnish all details pertaining to his business or company in the prescribed format given under **Annexure – D**.
- (iii) The bidder's company shall have a minimum turnover of Rs. 1 Crores in each financial year during the last three years, namely 2007-08, 2008-09 and 2009-10.
- (iv) The bidding firm/company must be a single company and no consortium is allowed.
- (v) The Bidder shall furnish tender specific authorization from all the OEM/Manufacturer.
- (vi) The bidding company preferably should be ISO 9001:2000/2008 certified.

- (vii) The Manufacturer of Active Networking Equipments -, Video Conferencing products their own registered & incorporated office in India.
- (viii) The Manufacturer for all Video Conferencing products should have good history being in India with enough support infrastructures to provide after sales support with in India.
- (ix) The bidder should have prior experience of completing 5 networking projects in last 5 financial years and order copy/job completion certificate must be attached.
- (x) Documentary evidence for all the above to be submitted along with the techno - commercial bid.

INSTRUCTIONS TO BIDDERS:

Interested Bidders are required to submit their technical proposals and commercial proposal in **two separate** sealed envelopes as per instructions given below:

The firm shall seal & mark various parts of the proposal as follows:

- A)** Techno Commercial Bid shall be submitted in one envelope super scribed with the heading: “***Techno Commercial Bid for SCHEDULE-A***”. **The Tender No. and Date, Last date & Time of Tender bid Submission shall also be clearly mentioned on the envelope.** A smaller envelope containing the EMD and Tender Document Fees in the form of D.D., with the word - “***EMD***” clearly mentioned on its surface shall also be put inside the envelope containing the Techno-commercial bid.

- B)** Price Bid in one envelope super scribed with words “**Price Bid for SCHEDULE-C**”, “Tender no .WBUAFS/RKVY/513 dated 14.03.2011” shall be submitted.

Price Bid as per format provided in the relevant section to be submitted in a **separate envelope** as mentioned in the tender document. Insertion of Price bid in techno-commercial proposal will result in the outright cancellation/rejection of the bid.

All the envelopes (First Envelope containing the TECHNO-COMMERCIAL BID along with the EMD and Tender document fees, and the second envelope containing the PRICE BID) shall put in a covering envelope superscribed with words “***Tender no. WBUAFS/RKVY/513 dated.14.03.2011. Techno Commercial Bid & Price Bid for SCHEDULE-A***”. ***The last date & time of Submission along with the date and timing of Opening of the Technical Bid shall also be mentioned on the Envelope.***

The sealed envelope containing the Techno Commercial Bid and Price Bid should be addressed to the **-The Principal Investigator, RKVY, WBUAFS Project, 37, K.B.Sarani, Kolkata-700037, West Bengal, India,** and should be dropped personally within the stipulated time in the tender box kept with the Office of the REGISTRAR, WBUAFS situated at 68, K.B. Sarani, Kolkata – 700 037, West Bengal. No other mode of delivery shall be accepted.

Late submission of Bid will not be accepted.

General Terms & Conditions

- (i) Proposals shall be complete in all respect and shall be submitted with requisite information and Annexure. It shall be free from any ambiguity or overwriting.
- (ii) An authorized representative of the entity shall put his/her initials signature on all pages of the proposal.
- (iii) For preparation of proposals, bidders are expected to examine the Tender document in detail and to provide all information required.
- (iv) The bidder should mention in detail their support infrastructure including address, e-mail address, and contact Phone number and Fax number including the Mobile number & e-mail id of the Contact Person (Technical) in this regard and modalities by which fast response to maintenance calls and minimum downtime will be ensured.
- (v) The tender documents shall be placed in sealed cover as mentioned above in instructions to bidders.
- (vi) The filled and sealed envelope shall be received by WBUAFS on or before the due date of submission mentioned above in the Tender Notification. The bids will be opened on the same day (date of submission) at 12.05 hrs in the presence of bidders or their authorized representative. Any envelope received after the said date and time will not be entertained / accepted. The Principal Investigator, RKVY Project, WBUAFS reserves the right to reject any or all bid(s) including the lowest one without stating any reason thereof.
- (vii) The time allowed for the delivery, installation, commissioning and completion of above work shall be 16 (twenty) weeks to be calculated from the issuance of the formal Purchase Order/Work Order/Agreement.
- (viii) The Bidder will submit his tender bid in prescribed format after thoroughly examining the all tender documents. They should understand the requirement and scope of work, technical specifications, clauses, etc before submitting their offer.
- (ix) The chosen currency for evaluation will be Indian Rupee (INR). Prices quoted in other currencies will be liable to get rejected.
- (x) The offer shall remain valid for 90 days from the date of opening of Tender. The value of tender can be increased or decreased and any item can be added, deleted,

withdrawn with a prior notice as per the requirements of RKVY, WBUAFS Project without assigning any reason thereof.

- (xi) The bidder shall submit a copy of their TAN/PAN Certificate, Income Tax Certificate and Audited Balance Sheet of last three years (2007-08, 2008-09, 2009-2010).
- (xii) If a bidder, whose tender bid is accepted, fails to undertake the work as per terms of the contract the earnest Money deposited with the bid shall be forfeited.
- (xiii) RKVY, WBUAFS Project does not bind itself to accept the lowest bid or any tender and reserves the right to reject any or all tenders without assigning any reason.
- (xiv) **Earnest Money:** The Bidder shall submit an earnest Money deposit of 2% of the rate quoted subject to a maximum of Rs. Fifty Thousand only (Rs.50,000/-) in the form of bank draft in favour of “Finance Officer, WBUAFS” along with the Bid in a separate envelope labeled as “ Earnest Money Deposit” along with “Techno Commercial Bid”. Balanced earnest money of 2% of the quoted value shall have to be deposited by the lowest quotationer before issue of Work Order.
- (xv) For the successful bidder, the Earnest money deposit (EMD) shall be returned on submission of performance bank guarantee (PBG). For the remaining bidders, the EMD shall be returned after the contract has been awarded to the successful bidder.
- (xvi) RKVY, WBUAFS Project will not pay any expense, whatsoever incurred by bidder for the preparation and submission of tender bids or for any other related clause.
- (xvii) The notice inviting tender, will form a part of the contract agreement to be executed by the successful bidder with RKVY, WBUAFS Project.
- (xviii) **Rate:** The rate which should be quoted both in figure & words must be inclusive of packing, forwarding, freight and all other incidentals charges.
- (xix) **Sale Tax/Vat** : Rate should be quoted inclusive of sales Tax/Vat however, where quoted separately the advalorem rate payable should be clearly cited in accordance with provision of relevant Act and rules.
- (xx) **Consignee:** All stores are required to be consigned to the Principle Investigator, WBUAFS, RKVY Project.
- (xxi) **Mode of dispatch:** The consignment is required to be dispatched by Road Transport or delivered at this Institute / or at specific location(s) mentioned in the work order under supplier’s own arrangement free of additional charges. All offers of delivery should be made ex-stock. In case of damage or loss in transit, if any will be borne by the supplier.
- (xxii) **Dispatch of Document:** The consignment note or its copy along with the quadruplicate of copy of relevant bill and three copies of priced challan should be dispatched to the Principle Investigator, RKVY, WBUAFS Project immediately on completion of dispatch of consignment. If these documents do not reach the said office within time, demurrage incurred, if any, shall be recoverable from the suppliers.
- (xxiii) **Delivery:** The materials would be delivered /dispatched, installed and commissioned within 16 weeks from the date of receipt of the supply order. Suppliers/contractors

are/is requested to take care that all the items mentioned above is to be supplied in full set basis and the item is required to be installed. User manuals (hard/soft copy) are also to be provided along with the items supplied.

- (xxiv) **Quality Specification:** The material offered should be of the standard quality available unless, otherwise specified conforming strictly to the specification cited. The Principle Investigator, RKVY, WBUAFS Project reserves the right to reject such material as is found unacceptable on these grounds. Items of only branded manufacturers will be given preference.
- (xxv) **Liquidated damages:** If a firm accepts the order and fails to execute the order in full or part as per terms and conditions stipulated therein, it will be open to the Principle Investigator recover Liquidated damaged from the firm at the rate of 1% per month or part thereof, subject to a maximum of 5% of the value of the undelivered items. It will also be open to the Principle Investigator, alternatively to arrange procurement of the required items from any source, at the risk and expense of the firm accepted and failed to execute the order according to stipulations agreed upon. This will also entail removal of the defaulters name from the approved/registered list of suppliers.
- (xxvi) **Performance guarantee:** Firm should submit (i) a performance Bank Guarantee @ 2% of the ordered value which will be released after three months from the expiry of the warranty period; the Performance guarantee may also be returned on furnishing of proof that the items / products are ISO certified.
- (xxvii) **Guaranty/Quality:** The Firm should provide operational guaranty to the all equipments for 12 months from the date of installation & commission. The OEM for Networking, Video Conferencing and passive components is preferred to have ISO certification to ensure their quality and reliability.
- (xxviii) **Sales tax: The tender should be accompanied by Sales Tax registration certificate.**
- (xxix) **Mode of payment:** Payment for Goods and Services shall be made in Indian Rupees as follows:
 - a) On Delivery: Eighty percent (80%) of the Contract Price of the Net working / Video Conferencing equipments/ components excluding maintenance and/or repair charges shall be paid on receipt of goods and upon submission of the documents.
 - b) On Final Acceptance: the remaining twenty percent(20%) of the Contract Price of the goods received shall be paid after the date of the Acceptance Certificate issued by the Purchaser's representative for the respective delivery, commissioning
- (xxx) **Rejection of offer:** Tenders not conforming to the terms and conditions and procedure so out lined are liable to be rejected summarily.
- (xxxi) **Special condition:** Special condition, if any, printed on the quotation sheets of the tenders or condition attached with the tender will not be applicable to the contract

unless these are expressly accepted in writing by the Principle Investigator, RKVY, WBUAFS Project.

- (xxxii) WBUAFS is registered with DSIR, Govt. of India and is, therefore, exempt from Customs as well as Excise Duty. Exemption Letter for Customs Duty and Excise Duty, if required, shall be issued by WBUAFS as and when required/asked for. However, the charges towards Custom Duty/Excise Duty, if any, shall be reimbursed subject to actual against submission of documentary proof.
- (xxxiii) **Discretionary power:** Principle Investigator, RKVY, WBUAFS Project reserves the right to accept or reject any or all tenders without assigning any reasons thereof and also to modify in exceptional case any of the stipulated terms and conditions on merit on genuine and justified grounds if it is in the larger interest of the project. The final acceptance of the tenders rests entirely with the Principle Investigator, RKVY, WBUAFS Project who does not bind himself to accept the lowest tender and/or any compromise with the quality of tender.

• **Other important Instructions:**

- (i) Bidders have to quote for all items in the Schedule of Requirements. Skipping any item from the schedule will lead to outright rejection of the bid. Bidders will not be allowed to raise any request for consideration.
- (ii) While giving technical quotations the bidders have to clearly show technical compliance of the schedule items in a tabular form, where the 1st, 2nd & 3rd columns respectively, shall contain the serial no., technical specifications as given in this tender and statement of compliance (Compiled / Not complied) against each clause as mentioned in the technical specification. The deviations, if any shall also be clearly recorded with suitable remarks in the 4th and/or 5th columns. The offered product model and make shall also be clearly mentioned in the compliance document for each product.
- (iii) Along with the price bid, the bidders are directed to submit (in a separate offer other than the price bid) a quotation for AMC charges for subsequent three years after the initial warranty period of one year. In other words, the bidders should indicate AMC charges for the 2nd, 3rd and 4th year.
- (iv) Minimum one year support commitment has to be given for Video conferencing products by the respective OEMs. The OEM(s) should confirm in their authorization letter that the prices for the offered items are inclusive of 1 year's warranty.
- (v) Technical literatures should be submitted for all the active components offered. Failing to do so may result in outright rejection of the bid. The product literatures being submitted should be available on the manufacturer's public website.
- (vi) Bidders should submit the detailed bill of materials with make, model no., part nos. & quantities for all the active components offered. In case bidder provides illusive/incomplete details by not specifying the same will be outrightly rejected. As

mentioned earlier, the compliance sheet for the offered products/solutions against the specification given in tender should be submitted.

- (vii) The prices should be quoted Item-wise (as per serial no.) as well as total system cost (inclusive of everything).

Bill of Quantity

(Schedule – A, Tender no .WBUAFS/RKVY/513 dated 14.03.2011)

Item No.	Description	UOM	Qty
Active Components			
1	Video Conference Unit - Std. Definition with Data Sharing Box/Module .	Nos.	1
2	LCD TV	Nos.	1
3	Projector	Nos.	1
4	Interactive White Board	Nos.	1
5	Cordless Mike	Nos.	2
6	Cordless Collar Mike	Nos.	2
7	Projector Pointer	Nos.	1
8	Motorized/Semi Auto Slider Screen	Nos.	1
9	KVM Switch with integrated LCD console	Nos.	1
10	Desktop PC	Nos	1
JOB WORKS			
11	Integration Charges, Job works and Documentation	One Time as per actual	
12	Support Charges	1 Year	

Technical Specification

1) Technical Specifications for Video Conferencing Products

a) *Desired Technical Features for Video Conferencing Unit:*

- i. The system should support 4 Mbps Bandwidth over IP Network.
- ii. The system should capable of 6 Sites Multipoint.
- iii. The system should have One Touch Dialing and Auto Dialing capability.
- iv. The system should be able to select different bandwidth for IP and different bandwidth for ISDN in Mixed Mode.
- v. The system can be assigned with a user-defined name to identify the site location name.
- vi. The system should have an In-built dedicated slot for a portable removable media which will enable for composite audio / video recording in MPEG-4 format, of 6 sites from the local site up to 8 hrs and can be played back onto any PC.
- vii. The system should have the flexibility to view and listen to the videoconference session in individual PCs from almost any location that has access to our network.
- viii. The System should have a Triple Display Output.

b) *Desired Technical Features for Camera Unit:*

- i. The image device should be ¼ type CCD.
- ii. The camera should have a minimum 10x Optical Zoom up to a maximum of 40x Digital Zoom.
- iii. The camera should have a minimum Pan (+100 to -100 degrees) and Tilt (+25 to – 25 degrees).
- iv. The Camera should have back light compensation for darker room conditions and Brightness control should be adjustable.
- v. A minimum of 3 meters cable should be supplied for connecting the camera unit with main conferencing unit.

c) *Desired Technical Features for Microphone Unit:*

- i. One External Omni-directional Microphone should be supplied with the main conferencing unit and it should have the interface for connecting 4 External Echo-Cancellation Microphones separately.

d) *Desired Technical Features for Remote Commander Unit:*

- ii. The Remote Commander should support Wireless SIRCS.
- iii. The Remote Commander should have Standby Button.

e) *Desired Technical Specification for Multipoint Video Conferencing*

<i>Feature</i>	<i>Specification</i>
Multipoint Capabilities	6 (1 + 5) sites
VIDEO	
Standards	H.261, H.263, H.263+, H.263++, H.264 & MPEG-4 SP@L3,H.239 Dual Stream Support
Frame rate	Max. 30 frames/s (H.261, H.263, H.263+, H.263++, H.264, and MPEG-4 SP@L3), Interlaced SIF Mode (50 fields/s)
Bit rate	4 Mb/s in H.323 (Incl. audio) & should have options of : <ul style="list-style-type: none"> - 2 Mb/s in H.320 (Incl. audio) when configured with the PRI - 768 Kb/s in H.320 (Incl. audio) when configured with 6 BRI - 384 Kb/s in H.320 (Incl. audio) when configured with 3 BRI
<i>Site-Name Display</i>	The presenter can assign a user-defined name to identify the site location name.
Dialing	Auto Dialing
AUDIO	
<i>Bandwidth and Coding</i>	<ul style="list-style-type: none"> - G.711: 3.4 kHz at 56/64 Kb/s - G.722: 7.0 kHz at 48/56/64 Kb/s - G.722.1: 7.0 kHz at 24/32 Kb/s (H.323) - G.728: 3.4 kHz at 16 Kb/s - G.723.1: 3.4 kHz at 5.3/6.3 Kb/s (H.323) - G.729: 3.4 kHz at 8 Kb/s (H.323) - MPEG-4 AAC (mono) 14 kHz at 64/96 Kb/s (H.323) at 48 Kb/s (H.320)
MICROPHONE	Omni directional External Microphone
ITU-T STANDARDS (excluding audio/video standards)	H.320, H.323, H.221 Bonding, H.281 FECC, H.225.0, H.242, H.243, H.245, T.120

MULTIPLE NETWORK CONNECTIVITY	
<i>IP</i>	RJ45
ISDN (Optional)	<i>(specify whether 3 BRI, 6 BRI and PRI feature can be added in Future)</i>
<i>Mode (IP / ISDN / Mixed)</i>	IP / ISDN Speed Matching Should be able to select different bandwidth for IP and different bandwidth for ISDN in Mixed Mode
NETWORK PROTOCOLS	TELNET (Server), HTTP (Server), FTP (Server), SNMP (Agent), DNS (Client) DHCP (Client), RTP/RTCP, TCP/UDP, ARP, SIP
AUDIO / VISUAL RECORDING	In-built dedicated slot for a portable removable media which will enable for composite audio / video recording in MPEG-4 format, of 6 sites from any 1 site up to 8 hrs and can be played back onto any PC.
REMOTE COMMANDER	Wireless SIRCS, should have Standby Button
CAMERA UNIT	
<i>Image device</i>	1/4 type CCD
<i>Horizontal resolution</i>	460 TV lines
<i>Focal length</i>	3.1 to 31 mm (F1.8 to 2.9)
<i>Focus</i>	Auto/Manual
<i>IRIS</i>	Auto
<i>Zoom ratio</i>	Minimum 10x Optical zoom (Minimum 40x with digital zoom)
<i>Pan angle</i>	Minimum +100° to -100° (Max. 100°/sec)
<i>Tilt angle</i>	Minimum +25° to -25° (Max. 125°/sec)
<i>Preset</i>	Up to 6 positions
<i>S/N</i>	More than 50 dB
<i>Others</i>	Back light compensation for darker room conditions Brightness control should be adjustable

INTERFACES	
<i>Video</i>	D-Sub 15-pin Dedicated Camera I/F x 1 S-video or Composite input x 1 (switchable with conversion connector) S-video output x 2 (for main/sub monitor) Composite output (AUX) RGB output
<i>Audio</i>	Line input RCA AUX input RCA (by passes echo cancellor) External analog microphone input, Mini-jack (Plug in power) x 2 External digital microphone input x 2 Line output RCA x 2 (one mixed output)
<i>Network</i>	10Base-T/100Base-TX External ISDN Unit I/F
<i>Control</i>	SIRCS IR Out x 2 Wired SIRCS In (Control-S)
<i>RGB</i>	I/F RGB output
INTERFACES (Camera Unit)	
<i>Terminal</i>	<i>Dedicated 23-pin</i>
<i>AUX Camera</i>	<i>8-pin Mini-DIN</i>
GENERAL	Operating temperature 5 °C to 35 °C Operating humidity 30% to 70% Storage temperature -20 °C to +55 °C Storage humidity 25% to 75% Power : AC 220 V to 240 V, 50/60 Hz Power Consumption DC 19.5 V, 5 A

SYSTEM COMPONENTS & ACCESSORIES TO BE SUPPLIED	Communication Terminal, Camera Unit (with minimum 3m camera cable), Remote Commander, AC Adaptor/Power Cord, Omni directional Microphone, IR Repeater x 2, Battery for Remote Commander x 2 Operation Manual in CD-ROM (preferably in English) Operation Guide, Quick Connection Guide, Cable Connection Guide Audio Cable (1.0 m), S-Video Cable (1.5 m) Mini DIN 7-pin to RCA Conversion Connector
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f) Desired Technical Specification for Data Sharing Device

DATA TRANSFER	<i>Specification</i>
<i>External Data Transfer & Multiple Connectivity Device (Should able to transfer Data / PC Contents in XGA resolution).</i>	RGB Input x 2 RGB Output x 1 Microphone Input x 5 Line Output x 1 for active speakers

2) LCD TV

Wall Mountable 46 Inches LCD TV with remote, SVGA output, cables and accessories and 1 year warranty.

Preferred Make : Samsung,/Sony/LG

3) Projector

Technical Specification:

SPECIFICATIONS:	DLP Projector
Display technology	0.55" 1-Chip DMD
Resolution	1024 x 768 (Total 786,432 pixels)
Brightness	3000lm
Contrast ratio*1	2000:1
Picture size	40" - 300"
Throw Ratio	1.6 - 2.0
Source lamp	190W (Shut-off Time 6000hr) with Low Mode, 230W (Shut-off Time 3000hr) with Standard Mode
Source lamp	640 x 480 - 1280 x 1024, True : 1024 x 768, Sync on Green available,
Video compatibility	NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60, Component Video ; 480i/p (525i/p), 576i/p (625i/p), 720p (750p), 1080i (1125i 60Hz), 1080i (1125i 50Hz)
Input terminals	RGB ; mini D-sub 15pin x 2, Video ; RCA x 1, S-VIDEO x 1, Digital ; HDMI x 1, Audio ; Stereo mini jack (ø3.5mm) x 2, RCA jack (L/R) x 1
Output terminals	RGB ; mini D-sub 15pin x 1, Audio ; Stereo mini jack (ø3.5mm) x 1
Communication terminal	RS-232C ; mini DIN 8pin x 1, LAN ; RJ-45 x 1
Audio speaker	10W Mono
Dimensions (W x H x D)	325 x 118 x 251 mm / 12.6 x 4.1 x 9.3 inch
Weight	3.3kg / 7.3lbs
Power requirements	AC 100-240V, 50/60Hz
Optional lamp	VLT-XD280LP

4) Interactive Whiteboard

Technical Specifications:

Form Factor	Any effortlessly installable/portable Interactive Whiteboard Solution
Interactive Area	Around 77" Diagonal and above
Technology	Resistive/Capacitive/Optical Touch Technology, multi-point multi-touch input preferred.
Resolution	800x600 or above
Interaction	Interaction By Finger/Stylus Pen, Design oriented towards comfort while writing for a long time during training session.
Surface Dependence	The item should be scratch resistant.
Environment	Operating temperature: 0°C to 50°C; Storage temperature: -25°C to 85°C Operating humidity: 10% to 90% RH, non-condensing; Storage humidity: 10% to 90% RH, non-condensing
Interface	Interface Through USB Cable Only.
Installation	Secure Installation for longer life.
True USB Device	Plug & Play Faster Response with USB-2.0
Power Requirement	Should take power from USB to avoid power cable installation
Compatibility	Compatible on Windows Platform
Export Format	By default it should be able to export files in popular PDF, JPEG etc format, in addition to OEM's format.
Ability to Save & Replay Presentations	Some provision to Real-time capture all the annotations & presentations in the software for later review & reference
Calibration	Easy calibration feature, able to set-up within a short duration.
Software Features	Complete Interactive Whiteboard Software, Various Pen tools, Seamless Mouse Control, Easy Right-Click function, Predefined Backgrounds, Special Tools for Training Environment, Image/Video insert, in-built geometrical tools, Capture with Hand Written Data in Single File etc.

5) Coreless Microphone/Mike

Cordless handheld microphone, with receiver and required accessories that include power cells/battery of reputed make.

6) Cordless Collar Microphone/Mike

Cordless mini-microphone which can be attached to presenter's collar/dress. Receiver and required accessories including power cells/battery of reputed make to be provided.

7) Projector Pointer

Optical/Laser Pointer to be provided that will be used while giving presentations.

8) Motorized /semi-automatic slider screen

Motorized /semi-automatic slider screen of 80 inch size (diagonal) to be provided.

9) KVM Switch with integrated LCD console

- (i) Single console should control up to eight servers.
- (ii) The KVM Switch shall have integrated 17" LCD console with a sliding housing and support at least 110 degrees rotation for a comfortable viewing angle.
- (iii) The LCD console should support resolutions of up to 1280 x 1024 @ 75 Hz.
- (iv) The KVM switch shall have integrated Keyboard and touch pad.
- (v) The KVM switch should be capable of being connected in daisy-chain with other similar KVM switches and should be able to control multiple servers from a single console
- (vi) KVM switches should have front accessible USB port to allow access to USB capable peripherals
- (vii) It should support servers and console with PS/2 or USB keyboards and mouse with automatic PS/2 or USB interface detection
- (viii) It should have additional USB port for connecting USB peripherals like external USB mouse or USB flash drives.
- (ix) It should support Windows 2000/XP/Vista, Linux platforms
- (x) The KVM switch should not require any software to be installed on computers or servers to function.
- (xi) It should have push buttons on its front panel to automatically switch between connected servers. It should have support for keyboard shortcuts/hotkeys to automatically switch between servers displays.
- (xii) It should have two level password security – user and administrator with only authorized users can view while administrators can control computers
- (xiii) Auto Scan feature for monitoring user-selected
- (xiv) It should have Hot plugging capability to add or remove computers without having to power down the switch
- (xv) It should have form factor of 1U and should be rack mountable in 19" system rack.
- (xvi) All necessary cables and connectors for connecting eight servers/computers and one each of monitor/keyboard/mouse should be supplied with the KVM switch.
- (xvii) The KVM switches should be supplied with 1 year warranty support.

10) Desktop PC Specification

Sl. No.	Description	Technical Specification
1	Processor Type	Intel Core 2 Duo Processor E8500(3.16GHz)
2	Chipset	Intel Q45 Express
3	Internal L2 Cache	6 MB L2 (Minimum)
4	System Bus (FSB)	1333 MHz Front Side Bus
5	Motherboard	OEM Motherboard with all necessary Drivers
6	Memory (RAM)	2GB upgradeable up to 8 GB DDR3 1066 MHZ or Higher SDRAM
7	Memory Slot	At least two of which one should be free
8	Hard Disk	320 GB Serial ATA,7200 RPM
9	Color Monitor	19" Flat panel LCD display - TFT
10	Ethernet Card	Integrated 10\100\1000 Mbps NIC
11	Mouse	USB/PS2 Optical Mouse (scroll Wheel)
12	Keyboard	USB/PS2 Keyboard
13	Optical Drive	16X DVD+/- R With Dual Layer Write Capability
14	Video Graphics	Integrated Intel Graphics Media Accelerator
15	Audio	Integrated 6 channel audio Subsystem
16	I/O Ports	1 Serial (9 PIN) 1 Parallel 8 USB 2.0 (at least 2 in front) 1 Ethernet (RJ45) 1 VGA out 1 ESATA 1 Stereo line in 1 Microphone Line in

		1 speakers/Line out 1 headphone (front)
17	Expansion Slots	2 PCI 1 PCI Express x1 1 PCI Express x16
18	Power Supply	220-300 Watt (88%/90% efficient power supply, Energy Star 4.0/5.0 compliant, active/passive PFC)
19	Operating System	Genuine Windows 2007 professional preloaded which is down gradable to Windows XP Professional along with OEM CD Media & Recovery CD
20	Certifications	The hardware must be fully compatible with latest versions of Linux (a Proof to be submitted)
21	Compliance	For PC: UL/CSA, FCC Energy Star Gold and Win 2007 certification For Monitor: UL, FCC Energy Star Gold and Win 2007 certification
22	Warranty	3 years On-site Comprehensive OEM Warranty

Annexure - A

TENDER SUBMITTING FORM

TENDER ENQUIRY NO: WBUAFS/RKVY/513 dt. 14.03.2011

Due to open on: _____ at _____ (time)

Bidder's Ref No: _____

To

The Principle Investigator

RKVY, WBUAFS Project.

37, K.B.Sarani, Kolkata-700037

West Bengal, India

Dear Sir,

Having examined the conditions of the contract as specified in the Bid Documents and the specifications including Addenda Nos. _____ the receipt of which is hereby duly acknowledged, we undersigned offer to supply and deliver Video conferencing, Networking, Acoustic Room Design and any other related job works in conformity with the said conditions of contract and specifications for the sum mentioned in the **Price Schedule**, or such other sums as may be ascertained in accordance with the schedule of prices attached herewith and made part of this Bid.

We undertake, if our Bid is accepted to commence supplies within **10 weeks** from the date of issue of your Purchase Order and to complete delivery of all the ordered items by us specified in the contract within **16 weeks** calculated from the date of issue of confirmed Purchase Order.

If our Bid is accepted, we will furnish the performance guarantee of a Schedule/Nationalized Bank for a sum not exceeding Two (2) percent of the contract sum.

We agree to abide by this Bid for a period of 180 days from the date fixed for Bid opening and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Bid submitted by us is properly sealed and prepared so as to prevent any subsequent alteration and replacement.

We understand that you are not bound to accept the lowest or any bid you may receive.

Date this _____ day of _____

Signature _____

(Name in Block Letters of the Signatory)

Annexure - B

EARNEST MONEY DEPOSIT/BID SECURITY DETAILS

To

The Principle Investigator

RKVY, WBUAFS Project.

37, K.B.Sarani, Kolkata-700037

West Bengal, India

The undersigned hereby tenders for job and agrees to hold this tender open for your acceptance for 180 days from the date of opening of the tender.

Details of EMD are given below:

Demand Draft No: _____ dated _____ drawn on _____

_____ for Rs _____ (in words -
Rupees _____ only) is

enclosed herewith.

as **EARNEST MONEY DEPOSIT/BID SECURITY.**

NAME: _____

COMPANY NAME: _____

ADDRESS: _____

Annexure - C

Tender for Supply, Installation and Commissioning of

Video Conferencing, acoustic room design for RKVY, WBUAFS Project

Declaration form

It is declared that I, Sri/Smt. _____, being the Bidder/ Authorized Signatory / Authorized Supplier / Proprietor / Manager of: M/s _____ of (address of the bidder)

_____ have gone through and understood all the Terms & Conditions laid down in the **Tender document no.** _____ **Dated:** _____ and would abide by the same terms and conditions throughout the period of contract.

I, hereby also agree to execute a “**Contractual Agreement**” with the purchaser based on all the terms and conditions laid down in the **Tender Document no.** _____ **dated** _____ **in the event of being selected as a successful bidder.**

Signature with date

Name in block letters

Seal of the Company

Annexure - D
Tender for Supply, Installation and Commissioning of
Video Conferencing, acoustic room design for RKVY, WBUAFS Project
Information about the Vendor/Bidder
(to be submitted along with the tender)

1. Name of the firm	
2. Registered Address	
3. Contact Phone numbers	
4. Fax number	
5. Name of the sole Proprietor or name of the Partners / Directors	
6. Name of the person authorised to execute contractual agreement and the capacity in which he is authorised	
7. Permanent Account no (PAN No.)	
8. Sales Tax Regn. no	
9. Are you a licensed manufacturer of the product?	
10. Are you an Authorized System Integrator?(enclose documentary proof)	
11. Marketing Networking Equipments since when?	
12. Total manpower in Customer Support. Escalation procedure, Help desk No (Preferably Toll free No) Infrastructure in India and Calcutta specifically	
13. A list of Networking projects	

Signature with date

Name in block letters

Seal of the Company

Annexure - E

DOCUMENTARY PROOF IN SUPPORT OF ELIGIBILITY OF THE BIDDER

MANUFACTURER'S AUTHORIZATION FORM

To

The Principle Investigator

RKVY, WBUAFS Project.

37, K.B.Sarani, Kolkata-700037

West Bengal, India

Dear Sir,

Sub: *Tender no .WBUAFS/RKVY/513 dated 14.03.2011*

**for Establishment of Video Conferencing, Acoustic Room Design At one Location
For RKVY, WBUAFS Project**

We _____ (name of OEM/Manufacturer)

who are established and reputable manufacturers of

_____ having factories at

_____ do hereby authorize M/s. _____

_____ (name and address

of bidder) to bid, negotiate and conclude the contract with you against tender no

_____ for the above goods manufactured by us.

We hereby extend our full guarantee and warranty as per the General Terms & Conditions of Tender for the goods offered for supply against this invitation for bid by the above firm.

Yours faithfully,

(Name)

For and on behalf of

M/s.....

Signature of Manufacturer

Dated:

Seal

Place

:

Note: This letter of authority should be on the letterhead/certificate form issued by the manufacturing concern and should be signed by a authorized person.

Annexure - F

PRICE SCHEDULE

Sl no	Description of items	Your Make/Model/Part Number Details	Qty	Price/unit (Rs.)	VAT / Service Tax (Rs.)	Total Price (Rs)
a	b	c	d	e	f	g=(e+f)*d
1						
2						
3						

Note:

- a) In case of discrepancy unit price and total price, the unit price shall prevail
- b) Charges for annual maintenance for 3 years after expiry of warranty period should be quoted separately in annexed price schedule.

Total bid price in Rs. _____

In words _____

Signature of Bidder _____

Name _____

Business address _____

Place:

Date:

Annexure – G

**PRICE SCHEDULE FOR ANNUAL MAINTENANCE AND REPAIR COST AFTER
WARRANTY PERIOD (2nd, 3rd, 4th Year)**

A	B	C	D	E	F
Schedule No.	Item Description	Quantity	Annual Maintenance & Repair cost for each unit per year Rs./ Year	Total Maintenance & Repair cost for total quantity per year Rs./ Year	Total Maintenance charges for 3 years in Rupees

Note:

- 1) In case of discrepancy between unit price and total price, the unit price shall prevail.
- 2) The Bidders should submit the price schedule in such a manner that it reflects the exact serial number-wise sequence of the Bill of Quantity given earlier. Any extra materials not covered in the above mentioned BOQ but deemed necessary should be indicated separately in the price schedule.

Signature of the Bidder: _____

Name: _____

Business Address: _____

Place:

Date:

Annexure – H

Details of task/job works/services to be rendered for the design, development of Video Conferencing Room at two locations, with support for Acoustics Management.

The Task/work categorizes in Aesthetic work and Cabling. The detail of task/work is given below,

1. The interior design of Site should be done in such a way that it suffices both the purpose of a conference room and a training room.
2. The entire wall panel should be made of imported 12.5mm thickness gypsum board and should be fully sound proof.
3. The false ceiling should be made of imported 15mm thickness gypsum board.
4. Proper lighting and power-switching arrangement should to be done with export quality materials.
5. Anti-skit Wooden Flooring should be done with a gallery style sitting arrangement for the trainees/audience. The flooring colors must retain the total ambiance of the room.
6. Either Berger or Asian Paints must be used for painting.
7. Textures finish wall paint for sound proofing.
8. 15/5 Amps Power plug points must be provided all over the room.
9. Only ISI marked plywood & anti termite should be used for the carpentry with laminate finish & Inside french gala polish
10. A full length opaque black glass door of 12mm thick should be provided and must be sound proof.
11. The curtains should be of export qualities.
12. The widows should be of full glass shutters of export qualities.
13. 2 (two) numbers of 1.5-ton Split AC must be provided at each location.
Preferred Make: Samsung, Carrier, Panasonic
14. 4 (Four) numbers of Wall mounted revolving fans should be provided of popular brand.
Make-HAVELLS/CROMPTON GREAVES
15. 25 chairs for audiences and 4 chairs for the executives should be provided.
16. Acoustic and Public Address System Installation
 - i. At-least 8 numbers of wall mounted export quality speakers each of 8 Ohms should be provided and installed throughout the room so that all participants can hear the Trainers clearly.

- ii. The Mixing Device should have the provision to connect at least 8 microphones (cord and cordless) and have the capability to cancel echo and humming sounds for clear voice output. The device should support remote management. The device should also have the facility to individually manage each microphone connected to it.
- iii. The Amplifier should be of export quality and should be compatible with the installed speakers.

All the above mentioned items should be supplied with required cables and accessories necessary for completion of the job.