Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh
Aligarh Muslim University, Aligarh-202002, UP

INVITATION FOR QUOTATIONS FOR CONSTRUCTION OF CIVIL WORKS UNDER PROCEDURES

To

_____
_____

Dear Sirs,

Sub : INVITATION FOR QUOTATIONS FOR CONSTRUCTION OF
Extension in Electrical Engg_EED

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

Brief Description of the Works	Approximate value of Works (Rs.)	Period of Completion (In Days)
Extension of SCADA Lab in Electrical Engg. (as per drawing & details enclosed)		**90**

2. Government of India has received a credit from the International Development Association (IDA) in various currencies equivalent to US$ **24300000000** towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase II** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.
3[1]. The _____ Project in _____ state is being implemented by _____, which is an autonomous society registered under the Societies Registration Act.
4. To assist you in the preparation of your quotation, we are enclosing the following:
   i. Layout Drawings of the works;
   ii. Structural Details;
   iii. Detailed Bill of Quantities, with estimated rates and prices;
   iv. Technical Specifications;
   v. Instructions to Bidders (in two sections).
   vi. Draft Contract Agreement format, which will be used for finalizing the agreement for this Contract.
5. You are requested to provide your offer latest by **16:00** hrs. on **07-Jul-2014**
6. Quotations will be opened in the presence of Bidders or their representatives who choose to attend at **16:00** AM/PM on **07-Jul-2014** in the office of **The Principal, Aligarh Muslim University, Aligarh-202002, UP**
7. We look forward to receiving your quotations and thank you for your interest in this project.
8. **Contractor must have registration with AMU.**
9. **Rates must be quoted in Indian Rupees Only.**
10. **The rates must be comparable to approved rates of Building Department, AMU.**

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[1] Delete if inapplicable

Name: **Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh**
Address:
Aligarh Muslim University, Aligarh-202002, UP
Tel. No:
0571 2700042
Fax No.

Instructions to Bidders

SECTION - A

1. Scope of Works

The **Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh** invites quotations for the construction of works as detailed in the table given below

Brief Description of the Works	Approximate value of Works (Rs.)	Period of Completion (In Days)
Extension of SCADA Lab in Electrical Engg. (as per drawing & details enclosed)		**90**

The successful bidder will be expected to complete the works by the intended completion date specified above.

2. **Qualification of the bidder**: The bidder shall provide qualification information which shall include:-
   (a) Total monetary value of construction works performed for each year of the last 3 years:
   (b) Income tax clearance certificate from the concerned IT circle;
   (c) Report on his financial standing; and
   (d) Details of any litigation, current or during the last 3 years in which the bidder is involved, the parties concerned and disputed amount in each case.

3. To qualify for award of the contract the bidder:-
   (a) should have satisfactorily completed as a prime contractor at least one similar work of value not less than Rs. 500,000 in the last three years;
   (b) should possess valid electrical license for executing building electrification works (in the event of the works being sub - contracted, the sub-contractor should have the necessary license);
   (c) should possess required valid license for executing the water supply/sanitary works (in the event of the works being sub-contracted, the sub-contractor should have the necessary license);

4. Bid Price

   a) The contract shall be for the whole works as described in the Bill of quantities, drawings and technical specifications. Corrections, if any, shall be made by crossing out, initialling, dating and re writing.
   b) All duties, taxes and other levies payable by the contractor under the contract shall be included in the total price.
   c) The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.
   d) The rates should be quoted in Indian Rupees only.

5. Submission of Quotations

5.1 The bidder is advised to visit the site of works at his own expense and obtain all information that may be necessary for preparing the quotation.

5.2 Each bidder shall submit only one quotation.

5.3 The quotation submitted by the bidder shall comprise the following :-
   (a) Quotation in the format given in Section **B**.
   (b) Signed Bill of Quantities ; and
   (c) Qualification information form given in Section B duly completed.

5.4 The bidder shall seal the quotation in an envelope **marked the ref. no. of package (TEQIP-II/1AMU03/151)** addressed to the **Principal, Z.H. College of Engg. & Tech., Aligarh Muslim University, Aligarh-202002, UP** (Purchaser). The envelope will also bear the following identification:-

- Quotation for **Extension in Electrical Engg_EED** (Name of the Contract)
- Do not open before **16:00 07-Jul-2014** (time and date of quotation opening).

5.5 Quotations must be received in the office of the **Principal, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh** (Employer) not later than the time and date given in the letter of invitation. If the specified date is declared a holiday, quotations shall be received upto the appointed time on the next working day.

1.6 Any quotation received by the **Principal, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh**, (Employer) after the deadline for submission of quotations will be rejected and returned unopened to the bidder.

6. Validity of Quotation

Quotation shall remain valid for a period not less than **55** days after the deadline date specified for submission.

7. Opening of Quotations

Quotations will be opened in the presence of bidders or their representatives who choose to attend on the date and time and at the place specified in the letter of invitation.

8. Information relating to evaluation of quotations and recommendations for the award of contract shall not be disclosed to bidders or any other persons not officially concerned with the process until the award to the successful bidder is announced.

9. Evaluation of Quotations

The Employer will evaluate and compare the quotations determined to be substantially responsive i.e. which

(a) meet the qualification criteria specified in clause 3 above;
(b) are properly signed ; and
(c) conform to the terms and conditions, specifications and drawings without material deviations.

10. Award of contract

The Employer will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price and who meets the specified qualification criteria.

10.1 Notwithstanding the above, the Employer reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

10.2 The bidder whose bid is accepted will be notified of the award of contract by the Employer prior to expiration of the quotation validity period.

11. Performance Security

Within 15 days of receiving letter of acceptance, the successful bidder shall deliver to the **Principal, Z.H. College of Engineering & Technology, Aligarh Muslim University, Aligarh** (Employer) the performance security (either a bank guarantee or a bank draft in favour of the Employer) for an amount equivalent of 3 % of the contract price. The Performance Security shall be valid till the expiry of the period of maintenance of the work, specified in clause 12.

12. Period of Maintenance :

The "Period of Maintenance" for the work is six months from the date of taking over possession or one full monsoon season whichever occurs later. During the period of maintenance, the contractor will be responsible for rectifying any defects in construction free of cost to the Employer.

13. Purchase of all construction materials including cement and steel as per the specifications (ISI certification marked goods wherever available) shall be the responsibility of the contractor.

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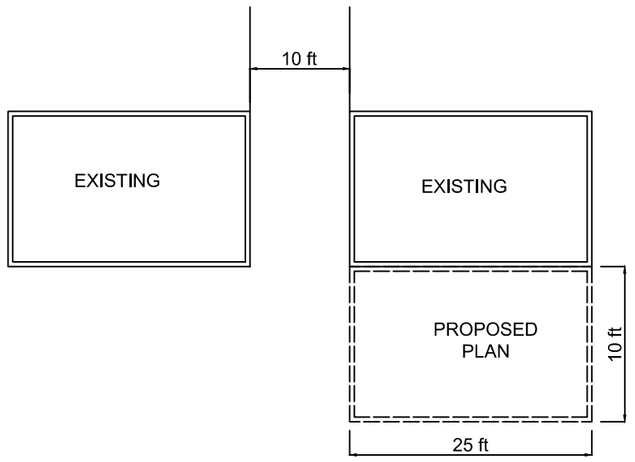
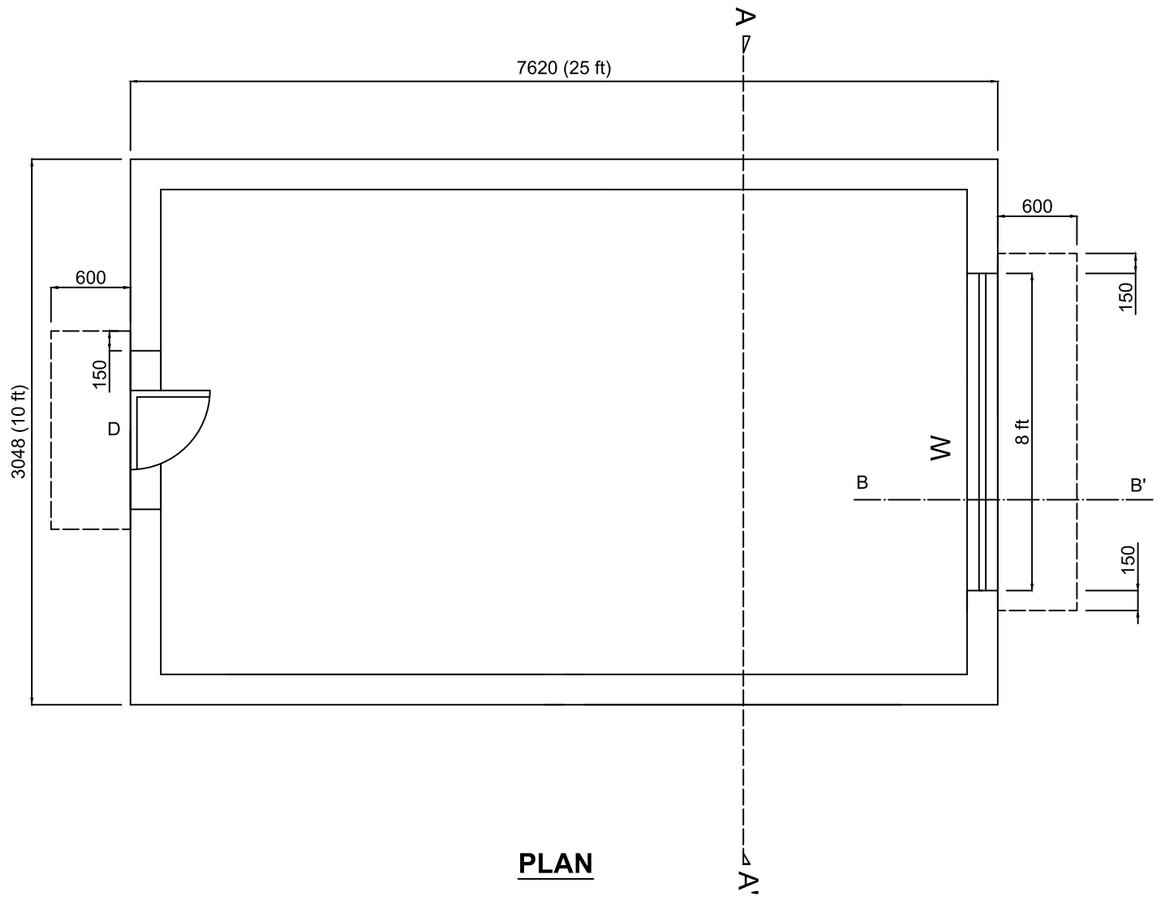
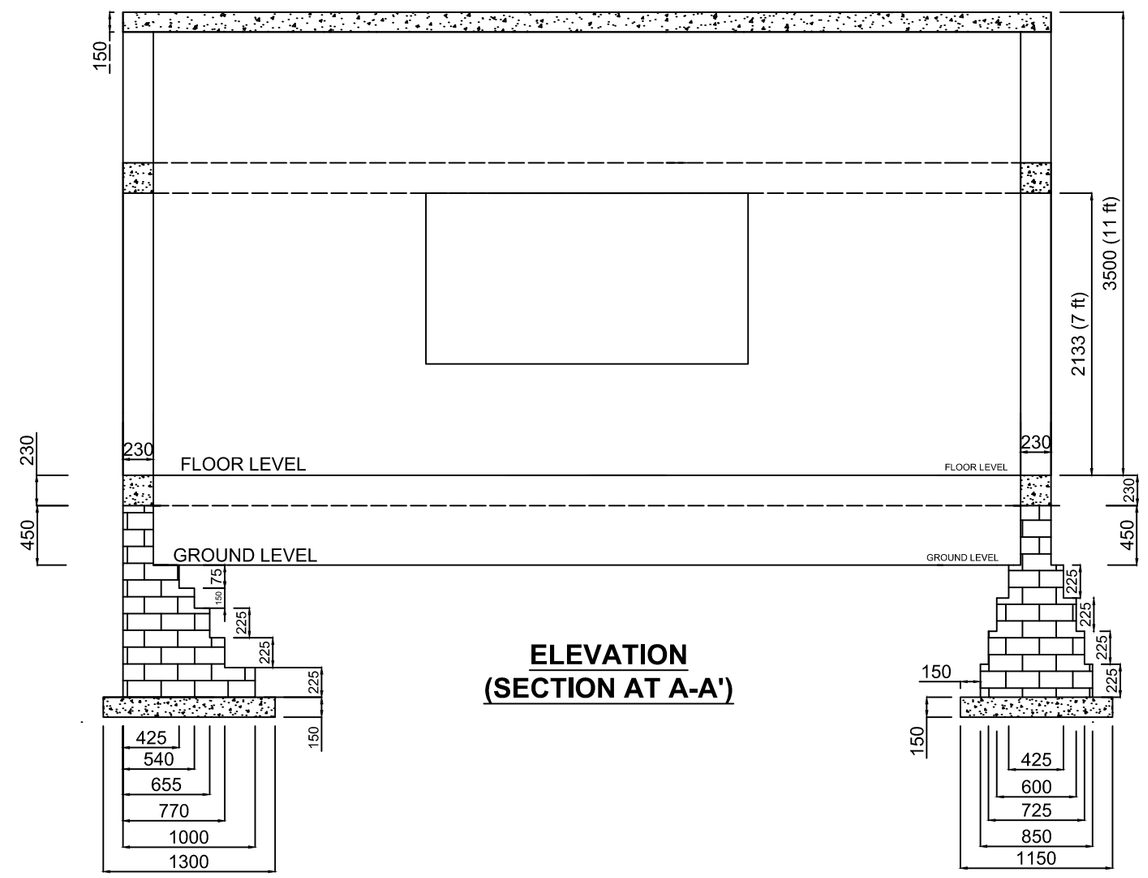
PROPOSED PLAN FOR THE EXTENSION FOR ELECTRICAL ENGINEERING LAB

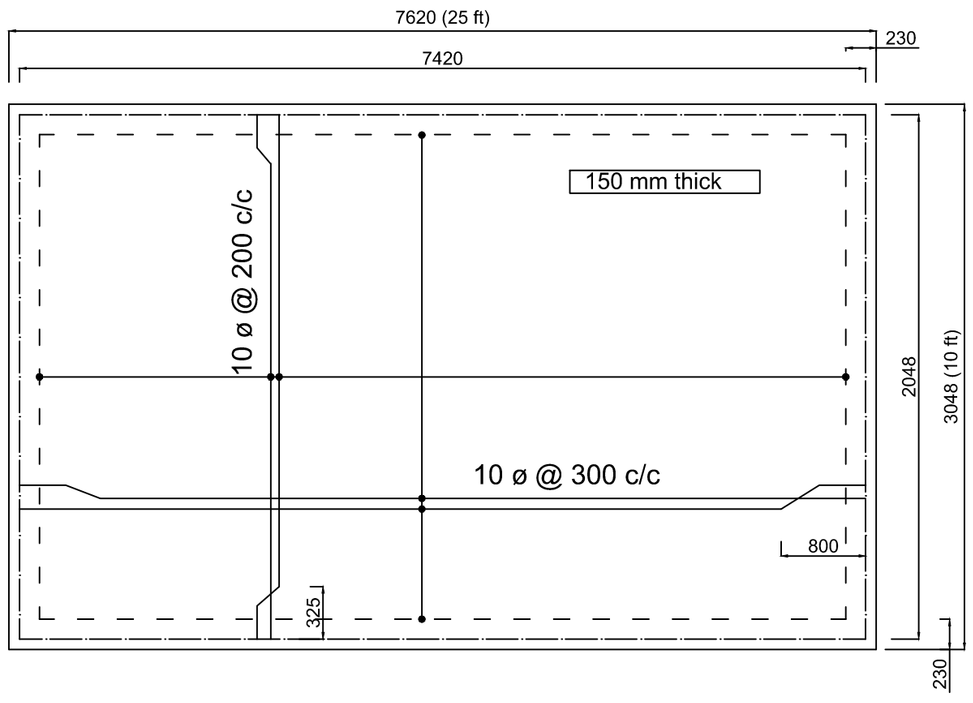




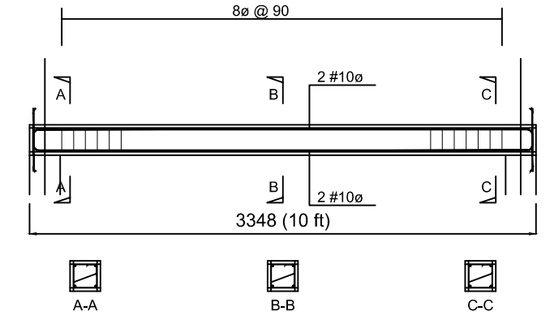
PLAN



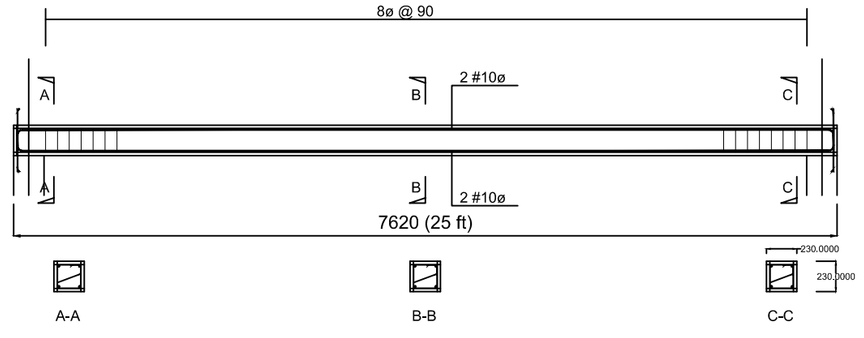
ELEVATION (SECTION AT A-A')



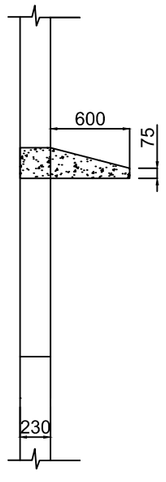
REINFORCEMENT DETAILS IN SLAB



REINFORCEMENT DETAILS IN TRANSVERSE BEAM (BOTH PLINTH AND LINTEL BEAM)



REINFORCEMENT DETAILS IN LONGITUDINAL BEAM (BOTH PLINTH AND LINTEL BEAM)



SUNSHADE DETAIL AT SECTION B-B'

ALL DIMENSIONS IN MM
NOT TO SCALE

INDEX
D - DOOR (3.5 ft X 7 ft)
W - WINDOW (8 ft X 4 ft)
ALL WALLS ARE 9 inches

DESIGNER:
DR. SHAKEEL AHMAD
PROFESSOR
CIVIL ENGG. DEPT.
AMU, ALIGARH

Internal Electrification Extension for Electrical Engineering Lab faculty of Engineering & technology AMU Aligarh.

S.No.	Description of Item	Quantity	Rate	Amount

01. Wiring for light point/fan point/exhaust fan
With 1.5 sq.mm FR PVC insulated copper
Conductor single core cable in surface/recessed
Medium class PVC conduit, with piano type
Switch, phenolice laminated sheet, suitable
Size M.S box and ear thing the point with
1.5 sq.mm FR PVC insulated copper conductor
Single core cable etc as required.
(a) Group B
(SOR 1.8.2/2) 10Nos

02. Wiring for light/ power plug with 2x4 sq.mm FR
PVC insulated Copper conductor single core
cable in surface/ recessed Medium class PVC
conduit along with 1 No 4 sq.mm FR PVC
insulated copper conductor single core cable
Etc as required. (SOR 1.12/3) 20Metre

03. Wiring for light/power plug with 4x4 sq.mm FR PVC
insulated copper conductor single core cable in
surface/recessed medium class PVC conduit along
with 2 Nos 4sq.mm FR PVC insulated copper
conductor single core cable etc as required.
(SOR 1.13/3) 30Metre

04. Wiring for circuit/ sub main wiring along with
earth wire with the following sizes of FR PVC
insulated copper conductor, single core cable
in surface/ recessed medium class PVC conduit
as required. (SOR 1.14/3)
(a) 2x2.5sq.mm+1x2.5sq.mm ear thing wire
(SOR 1.14.2/3) 10Metre
(b) 4x2.5sq.mm+2x2.5sq.mm ear thing wire
(SOR 1.14.7/3) 10Metre
(c) 4x10sq.mm+2x6sq.mm ear thing wire
(SOR 1.14.10/3) 35Metre
(d) 4x6sq.mm+2x6sq.mm ear thing wire
(SOR 1.14.9/3) 20Metre

S.No	Description of Item	Quantity	Rate	Amount
05.	Supplying and fixing stepped type electronic fan regulator on the exiting modular plate switch box including connections but excluding modular plate etc as required. (SOR 1.25/7)	03Nos		
06.	Supplying and fixing metal box of 150mmX75mm X65mmdeep (nominal size)on surface or in recess with suitable size of phenolic laminated sheet cover if front including providing and fixing 3 pin 5/6 amp piano type switch connection painting etc as required. (for light plug to be used in noon residential building) (SOR 1.29/7)	03Nos		
07.	Supplying and fixing metal box of 180mm x 100mm x 60mm deep (normal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including providing and fixing 6 pin 5/6& 15/16 amp socket out late and 15/16 amp socket piano type switch connection painting etc required. (SOR 1.30/7)	03Nos		
08.	Erection of wall bracket/ ceiling fitting of all sizes and shapes containing up to two GLS lamp per fitting completed with all accessories etc as required. (SOR 1.35/8)	03Nos		
09.	Installations testing and commissioning of ceiling fan including wiring the down rods of standard length (up to 30cm) 1.5sq.mm FR PVC including copper conductor single core cab le including providing and fixing phenolic laminated sheet cover on the fan box etc as required. (SOR 1.45/9)	03Nos		
10.	Supplying and fixing extra down rod of 10 cm length G.I pipe,15mm dia heavy gauge including. painting etc. as required. (note: more than 5cm length shall be rounded to the nearest 10cm and 5 cm or less shall be ignored) (SOR 1.47/9)	03Nos		

S.No	Description of Item	Quantity	Rate	Amount
11.	Supplying and fixing following way, single distribution board, 240 volt on surface / recess, completed with tinned copper bus bar earth bar din bar, interconnections, power painted including ear thing etc as required. (But without MCB/RCCB/ISOLATOR) (SOR 2.3/10) 2.3.5 2+4Way, Double door (SOR 2.3.5/11)	01Nos		
12.	Supplying providing and fixing following way horizontal type three pole and nature sheet steel MCB distribution board 415 volts on surface/recess completed with tinned copper bus bar natural bus bar earth bar interconnection powder painted including ear thing etc as required. (But without MCB/RCCB/ISOLOTOR) (SOR 2.4/11) (a) 4 Way (4+12), Double door (SOR 2.4.4/11)	01Nos		
13.	Supplying and fixing 5 amps to 32 amps rating 240/415 volts isolator in the exiting MCB DB completed with connection testing and commission etc. as required. (SOR 2.10/13) (a) Single pole (SOR 2.10.1/13)	16Nos		
14.	Supplying and fixing following rating double pole 240 volts isolator in the exiting MCB DB with connection testing and commissioning etc. as required. (SOR 2.12/13) (a) 40 amps (SOR 2.12.1/13)	01Nos		
15.	Supplying and fixing following rating four pole 415 volts isolator in the exiting MCB DB completed with connection etc. as required. (a) 100amps (SOR 2.13.3/13)	02Nos		
16.	Supplying and fixing DP steel sheet enclosure and surface/ recess along with 25/32 amps 240 volt “c” cure TP MCB completed with connection testing and commissioning etc. as required. . (SOR 2.16/14)	01Nos		

S.No	Description of Item	Quantity	Rate	Amount
17	Supplying fixing TP sheet steel enclosure of surface /recess along with 16/25/32amps 415 volt “c” curve TP MCB completed with connection testing and commissioning etc. as required. (SOR 2.17/14)	01Nos		
18.	Supplying and fixing metal box of following size (nominal size)on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc as required. (a) 200mmx250mmx100mm deep (SOR 1.22.12/6)	04Nos		
19.	Supplying and fixing following piano type switch/socket on the exiting switch box/ cover including connection etc as required. (a) 5/6 amps switch (SOR 1.23.1/6) (b) 3 pin 5/6 amp socket outlet (SOR 1.23.1/6)	12Nos 12Nos		
20.	Supplying of recessed mounting 3x36 watt mirror optic luminaries with P5 paralite lover and electronic ballast with 3Nos 36watt CFL of wipro/Bajaj/Havells make Havells Cat No. LHCC22336325	03Nos		
21.	Supplying of 1200mm ceiling fan complete with down rod/blades etc of Havells/ velocity/crompton Hi-breez (MR)	03Nos		
22.	S/F MS heavy gauge fan box of heavy gauge fan Hook (MR)	03Nos		
23.	S/F bakelite angle/batten holder of SSk make (MR)	04Nos		
24.	Supplying and fixing 30 amps, 415 volts, TPN industrial type,socket outlet, with 4 pole and earth, metal enclosed plug top along with 30 amps "C" curve, TPMCB, in sheet steel enclosure, on surface or in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required.	02Nos		

S.No	Description of Item	Quantity	Rate	Amount
25.	Supplying and fixing 20 amps 240 volt SPN industrial type socket outlet, with 2 pole and earth. metal enclosed plug top along with 20 amps “C” cure SP, MCB, in sheet steel enclosure on surface in recess, with chained metal cover for the socket out let and complete with connections, testing and commissioning etc. as required. (SOR 2.18/14)	02Nos		

TOTAL

NAME OF WORK: EXTENSION OF ELECTRICAL ENGINEERING Lab, ZHCET

SUMMARY (CIVIL WORK)

S.No		HEAD / SUB HEAD				AMOUNT
A		EARTH WORK			Rs.	
B		PLAIN AND REINFORCED CEMENT CONCRETE			Rs.	
C		BRICK WORK			Rs.	
D		STEEL WORK			Rs.	
E		FLOORING			Rs.	
F		FINISHING			Rs.	
G		ROOFING AND WATERPROOFING WORK			Rs.	
H		MISCELLANEOUS			Rs.	

TOTAL	**A**	**Rs.**	**-**
Add 6.71% for Cost Index on DSR 2012 at Aligarh			-
	B	**Total=**	**-**
Add 12.5% for Internal Electrification (B)			-
	C	**Total=**	**-**
Add 5% Contingency on (C)=			-
	D	**Total=**	**-**
Add 4% for VAT on (D)= Rs:			-
		Total=	**-**

EXTEN

SN.	DSR NO.	DESCRIPTION OF ITEMS	QTY	UNIT	RATE	AMOUNT
A		**EARTH WORK**				
1	2.8	Earth work in excavation by mechanical means (Hydraulic All kinds of soil	28.00	Cum		
	2.8.1	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.	28.00	Cum		

2	2.25	Supplying and filling in plinth fine sand (Jamuna sand) under floors etc. including watering, ramming, consolidating and dressing complete.	4.00	Cum		
3	2.27	**TOTAL CARRIED OVER TO SUMMARY**			**Rs.**	-
		PLAIN & REINFORCED CEMENT CONCRETE WORK				
B		Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering. All work upto plinth level				
4	4.1	1:4:8 (1 cement :4 coarse sand :8 graded stone aggregate 40 mm nominal size)	6.00	Cum		
	4.1.9	Providing and laying damp-proof course 50mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size).	5.00	Sqm		
5	4.10	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50 kg of cement.	2.00	Kg/ bag of cement		
6	4.12	Applying a coat of residual petroleum bitumen of penetration 80/100 of approved quality using 1.7 Kg per square meter on damp proof course after cleaning the surface with brushes and finally with a piece of cloth lightly soaked in kerosene oil.	5.00	Sqm		
7	4.13	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size)	1.50	Cum		
8	5.1 5.1.2	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:5:10 (1 Cement : 5 fine sand : 10 graded Brick Ballast 40 mm nominal size)	1.50	Cum		
9	DSR 12 A.R	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases up to floor five level excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20 mm nominal size).	8.50	Cum		

10	(5.2.2-5.2.3/5.2.3)x100=10%,5.3x10%	Providing and laying in position cement concrete of specified grade excluding the cost of centring and shuttering - All work upto plinth level 1:2:4 (1 Cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	1.25	cum		
11	4.1 4.1.3	Centering and shuttering including strutting, propping etc. and removal of forms for : Suspended floors, roofs, landings, balconies and access platforms.	60.00	Sqm		
12	5.9	Lintels, beams, plinth beams, girders, bressumers and cantilevers.	20.00	Sqm		
a)	5.9.3	Edges of slabs and breaks in floors and walls				
b)	5.9.5	Under 20 cms. Wide	22.00	Meter		
c)	5.9.16 5.9.16.1	Weather shade, Chajjas, corbels etc., including edges	4.00	Sqm		
d)	5.9.19	Reinforcement for RCC work including strengthening, cutting, bending, placing in position and binding all complete. Thermo mechanically treated bars of grade Fe 500.	1450.0	Kg		
13	5.22 5.22.6					
		TOTAL CARRIED OVER TO SUMMARY			**Rs.**	-
		BRICK WORK				
C		Brick work with F.P.S. bricks of class designation 75 in foundation and plinth in : Cement mortar 1:6 (1 cement : 6 coarse sand)	18.00	Cum		
14	6.1 6.1.2	Brick work with F.P.S. bricks of class designation 75 in superstructure above plinth level upto floor V level in all shapes and sizes in: Cement mortar 1:6 (1 cement : 6 coarse sand)	21.00	Cum		
15	6.4 6.4.2					
		TOTAL CARRIED OVER TO SUMMARY			**Rs.**	-
		STEEL WORK & WOOD WORK				
D		Structural steel work welded in built up sections / framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In Gratings, Frames, guard bar, ladder, railings, brackets, gates & similar works.	40.00	Kg		
16	10.25					

	10.25.2	Providing and fixing T-iron frames for doors, windows and ventilators of mild steel Tee-sections, joints mitred and welded with 15x3 mm lugs 10cm long embedded in cement concrete blocks 15x10x10 cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and screws or with dash fastener or with fixing clips or with bolts and nuts as require including fixing of necessory butt hinges and screws and applying a priming coat of approved steel primer.	22.00	Kg			
17	10.13.1	Providing and fixing fly proof galvanised M.S. wire gauze to windows and clerestory windows using galvanised M.S. wire gage with average width of aperture 1.4 mm in both directions with wire of dia. 0.63 mm.					
		With 2nd class teak wood beading 62x19 mm	3.00	Sqm			
18	9.51						
	9.51.1	P/F made ISI marked steel glazed doors, windows and ventilators side/top/cntre hung with beading and all members such as K 11 B and K 12 B etc. complete of standard rolled steel sections, joints mitred and flash cut welded and sash bars tenoned and riveted with 15x3mm lugs 10cm long embedded in cement concrete blocks 15x10x10cm of 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size) or with wooden plugs and screws or rawl plugs and srews or with fixing clips or with bolts and nuts as required, including P/F of hinges, pivots, float glass panes with glazing clips and special metal sash putty of approved make and a priming coat of approved steel primer excluding cost of metal beading and other fittings except necessory hinges or pivots complete as per approved design.	45.00	Kg			
19	10.11.1	Renewing glass panes, with putty and nails wherever necessary:					
		Float Glass panes of thickness 4 mm.	3.00	Sqm			
20	14.5						
	14.5.1	Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :					
		35 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	2.30	Sqm			
21	9.21.1 - 9.15.1.1	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :					
		250 x 10 mm	4.00	Nos			
22	9.72	150 x 10 mm	8.00	Nos			
a)	9.97.2						

b)	9.97.4	Providing and fixing aluminium sliding door bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with nuts and screws etc. complete :				
		300x16 mm	2.00	Nos		
23	9.96					
	9.96.1	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.				
		Single rubber stopper	2.00	Each		
24	9.10					
	9.101.1	Providing and fixing aluminium handles ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete :				
		125 mm	4.00	Each		
25	9.10					
	9.100.1					
		TOTAL CARRIED OVER TO SUMMARY			**Rs.**	-
		FLOORING				
E		Providing and laying polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and conforming to 15622 of approved make in all colours and shades, laid on 20 mm thick cement mortar 1:4 (1 cement: 4 coarse sand) including grouting the joints with white cement and matching pigment etc. complete.	22.00	Sqm		
		Size of Tile 60x60 cm				
26	11.41.2	Extra for Providing and laying Double Charged polished vitrified floor tiles instead of Polished vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorptions less than 0.08% and conforming to 15622 of approved make in all colours and shades:	22.00	Sqm		
27	M.R.					
		TOTAL CARRIED OVER TO SUMMARY			**Rs.**	-
		FINISHING				
F		6 mm cement plaster 1:3 (1 cement : 3 fine sand grade-IV) to RCC work.	42.00	Sqm		
28	13.16.1	12 mm cement plaster 1:6 (1 Cement : 6 Coarse Sand)	90.00	Sqm		
29	13.4.2	15 mm cement plaster 1:6 (1 Cement : 6 Coarse Sand) on the rough side of single or half brick walls.	95.00	Sqm		

30	13.5.2	P/A white cement based putty of avg. thickness 1 mm of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete:	227.00	Sqm		
31	13.80	Finishing walls with Acrylic Smooth exterior paint of required shade New work (Two or more coat applied @ 1.67 ltr/10 sqm over and including base coat of water proofing cement paint applied @2.20kg/10 sqm)	95.00	Sqm		
32	13.46 13.46.1	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade on New work (two or more coats) over and including water thinnable priming coat with cement primer.	132.00	Sqm		
33	13.41.1	Painting with synthetic enamel paint of approved brand and manufacture of required colour two or more coats on new work over and under coat of suitable shade with ordinary paint of approved brand and manufacture to give	25.00	Sqm		
34	13.61.1	Cement plaster 1:3 (1 cement : 3 coarse sand) finished with a floating coat of neat cement 12 mm cement plaster	13.00	Sqm		
35	13.9 13.9.1	**TOTAL CARRIED OVER TO SUMMARY**			**Rs.**	**-**

ROOFING & WATER PROOFING WORK

G		Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations.				
36	22.7	Applying and grouting a slurry coat of neat cement using 2.75 kg/Sqm of cement admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge over the RCC slab including adjoinming walls upto 300mm height including cleaning the surface before treatment. Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge over 20 mm thick layer of cement mortar of mix 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge to required slope and treating similarly the adjoining walls upto 300 mm height including rounding of junctions of walls and slabs.				
a)		After two days of proper curing applying a second coat of cement slurry using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge.				

b)		Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 (1 cement : 4 coarse sand) admixed with water proofing compound conforming to IS:2645 and approved by Engineer-in-charge including laying glass fibre cloth of approved quality in top layer of plaster and finally finished the surface with trowel with neat cement slurry and making pattern of 300x300 mm square 3mm deep.				
c)		The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test. All above operations to be done in order and as directed and specified by the Engineer-in-Charge.				
d)		With average thickness of 120 mm and minimum thickness at khurrah as 65 mm	20.00	Sqm		
e)		Providing gola 75 x 75 mm in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 stone aggregate 10 mm and down gauge) including finishing with cement mortar 1:3 (1 cement : 3 fine sand) as per standard design in 75 x 75mm deep chase.	22.00	Mtr		
37	12.21	Making khurrah 45x45 cm with average minimum thickness of 5 cm cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate of 20 mm nominal size) over P.V.C. sheet 1mx1mx400 micron, finished with 12 mm cement plaster 1:3 (1 cement : 3 coarse sand) and a coat of neat cement rounding the edges and making and finishing the outlet complete.	4.00	Each		
38	12.22	Providing and fixing on wall face unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. (i) Single socketed pipes 110 mm diameter	14.00	Mtr		
39	12.41 12.41.2	Providing and fixing on wall face unplasticised - PVC moulded fittings/accessories for unplasticised - Rigid PVC rain water pipes conforming to IS : 13592 Type A including jointing with seal ring conforming to IS : 5382 leaving 10 mm gap for thermal expansion. Bend 87.5°				
40	12.42 12.42.5 12.42.5.2	110 mm bend Providing and fixing unplasticised -PVC pipe clips of approved design to unplasticised - PVC rain water pipes by means of 50x50x50mm hard wood plugs, screwed with M.S. screws of required length including cutting brick work and fixing in cement mortar 1:4 (1 cement : 4 coarse sand) and making good the walls etc. complete. 110 mm	8.00 12.00	Each Each		
41	12.43 12.43.2					
		TOTAL CARRIED OVER TO SUMMARY			**Rs.**	**-**

MISCELLANEOUS WORK

H		Making plinth protection 50mm thick of cement cocrete 1:3:6 (1 cement : 3 coarse sand : 6 graded stone aggregate 20mm nominal size) over 75mm bed of dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth all complete.	18.50	Sqm		
42	4.17	**TOTAL CARRIED OVER TO SUMMARY**			**Rs.**	**-**

Additional Qualifications/Important Information for Bidder

- **Supporting documents to show satisfactory completion of Civil worksof similar cost in any reputed Govt. Organisation or Institute.**

- **VAT Number, PAN No.**

- **Registration of firm with any Centeral Govt. Organisation as Civil Contractor/registration in Aligarh Muslim University.**

- **At the time of payment security 10%, UMI 1% (water charges), 4%VAT, 2.266% Income Tax & 1%Laboru cess shall be deducted from bills at source.**

SECTION - B

1. **Format for Qualification Information.**
2. **Format for Submission of Quotation.**
3. **Format of Letter of Acceptance.**

QUALIFICATION INFORMATION

1 For Individual Bidders

1.1 Principal place of business: _____

Power of attorney of signatory of Quotation.
[Attach copy]

1.2 Total value of Civil Engineering construction work performed in the last three years (in Rs. Lakhs)

19___ _____
19___ _____
19___ _____

1.3 Work performed as prime contractor (in the same name) on works of a similar nature over the last three years.

Project Name	Name of Employer	Descrip-tion of work	Cont ract No.	Value of contract (Rs. Lakhs)	Date of issue of work order	Stipulate d period of comple-tion	Actual date of comple -tion	Remarks explaining reasons for delay and work completed

Existing commitments and on-going works:

Description of Work (1)	Place & State (2)	Contract No. & Date (3)	Value of Contract (Rs. Lakh) (4)	Stipulated period of completion (5)	Value of works* remaining to be completed (Rs. Lakhs) (6)	Anticipated date of completion (7)

* Enclose a certificate from Engineer concerned.

1.4 Proposed subcontracts and firms involved.

Sections of the works	Value of Sub-contract	Sub-contractor (name & address)	Experience in similar work
*	*	*	*
	*	*	
*	*	*	*
	*	*	
*	*	*	*
	*	*	

1.5 Evidence of access to financial resources to meet the requirements of working capital: cash in hand, lines of credit, etc. List them below and attach copies of support documents.

1.6 Name, address, and telephone, telex, and fax numbers of the Bidders' bankers who may provide references if contacted by the Employer.

1.7 Information on litigation history in which the Bidder is involved.

Other party (ies)	Employer	Cause of dispute	Amount involved	Remarks s howing present status

QUOTATION

*
Description of the Works:

To:

Subject : Construction of .....
.....

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

Sir,

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

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

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

We hereby confirm that this quotation is valid for 45 days as required in Clause 6 of the Instructions to Bidders.

Yours faithfully,

Authorized Signature : Date: _____

Name & Title of Signatory : _____
Name of Bidder : _____
Address : _____

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

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

LETTER OF ACCEPTANCE
CUM NOTICE TO PROCEED WITH THE WORK

(LETTERHEAD OF THE EMPLOYER)

Dated : _____

[Name and address of the Contractor]

To : _____
_____
_____
_____
_____

Dear Sirs,

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

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

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

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

Yours faithfully,

Authorized Signature
Name and title of Signatory

Draft Agreement form for Construction through National Shopping

ARTICLES OF AGREEMENT

This deed of agreement is made in the form of agreement on _____ day _____ month _____ 199 ___, between the _____ (Employer) or his authorized representative (hereinafter referred to as the first party) and _____ (Name of the Contractor), S/O _____ resident of _____ (hereinafter referred to as second party), to execute the work of construction of _____ (hereinafter referred to as works) on the following terms and conditions.

2. Cost of the Contract

The total cost of the works (hereinafter referred to as the "total cost") is Rs. ____ as reflected in Annexure - A.

3.1 Payments under its contract:

Payments to the second party for the construction work will be released by the first party in the following manner:-

On signing of agreement	:	25% of total cost
On reaching plinth level (first stage)	:	25% of the total cost
On reaching lintel level (second stage)	:	25% of the total cost
On reaching roof level (third stage)	:	15% of the total cost
Plastering and completion of whole work (fourth stage)	:	10% of the total cost

(The above has been drafted for construction of school buildings; modify this suitably for other works)

3.2 Payments at each stage will be made by the first party:

(a) on the second party submitting an invoice for an equivalent amount ;

(b) on certification of the invoice (except for the first installment) by the engineer nominated by the first party with respect to quality of works in the format in Annexure - B; and

(c) upon proper and justified utilization of at least 50 % of the previous installment and 100 % of any prior installment.

4. Notice by Contractor to Engineer

The second party, on the works reaching each stage of construction, issue a notice to the first party or the Engineer nominated by the first party (who is responsible for supervising the contractor, administering the contract, certifying the payments due to the contractor, issuing and valuing variations to the contract, awarding extensions of time etc.), to visit the site for certification of stage completion. Within 15 days of the receipt of such notice, the first party or the engineer nominated by it, will ensure issue of stage completion certificate after due verification.

5. Completion time

The works should be completed in _____ (months/weeks/days) from the date of this Agreement. In exceptional circumstances, the time period stated in this clause may be extended in writing by mutual consent of both the parties.

6. If any of the compensation events mentioned below would prevent the work being completed by the intended completion date, the first party will decide on the intended completion date being extended by a suitable period :

a) The first party does not give access to the site or a part thereof by the agreed period.

b) The first party orders a delay or does not issue completed drawings, specifications or instructions for execution of the work on time.

c) Ground conditions are substantially more adverse than could reasonably have been assumed before issue of letter of acceptance and from information provided to second party or from visual inspection of the site.

d) Payments due to the second party are delayed without reason.

e) Certification for stage completion of the work is delayed unreasonably.

7. Any willful delay on the part of the second party in completing the construction within the stipulated period will render him liable to pay liquidated damages. @ Rs.* per day which will be deducted from payments due to him. The first party may cancel the contract and take recourse to such other action as deemed appropriate once the total amount of liquidated damages exceeds 10% of the contract amount.
(**Note : The amount of liquidated damages per day should be determined at 0.07 % of the contract value of the works and indicated here**).

8. Duties and responsibilities of the first party

8.1 The first party shall be responsible for providing regular and frequent supervision and guidance to the second party for carrying out the works as per specifications. This will include written guidelines and regular site visit of the authorized personnel of the first party, for checking quality of material and construction to ensure that it is as per the norms.

8.2 The first party shall supply 3 sets of drawings, specifications and guidelines to the second party for the proposed works.

8.3 Possession of the site will be handed over to the second party within 10 days of signing of the agreement.

8.4 The Engineer or such other person as may be authorized by the first party shall hold meeting once in a month where the second party or his representative at site will submit the latest information including progress report and difficulties if any, in the execution of the work. The whole team may jointly inspect the site on a particular day to take stock of activities.

8.5 The Engineer shall record his observations/instructions at the time of his site visit in a site register maintained by the second party. The second party will carry out the instructions and promptly rectify any deviations pointed out by the engineer. If the deviations are not rectified, within the time specified in the Engineer's notice, the first party as well as the engineer nominated by it, may instruct stoppage or suspension of the construction. It shall thereupon be open to the first party or the engineer to have the deviations rectified at the cost of the second party.

9. Duties and responsibilities of the second party

9.1 The second party shall :

a) take up the works and arrange for its completion within the time period stipulated in clause 5;

b) employ suitable skilled persons to carry out the works ;

c) regularly supervise and monitor the progress of work ;

d) abide by the technical suggestions / direction of supervisory personnel including engineers etc. regarding building construction ;

e) be responsible for bringing any discrepancy to the notice of the representative of the first party and seek necessary clarification :

f) ensure that the work is carried out in accordance with specifications, drawings and within the total of the contract amount without any cost escalation ;

g) keep the first party informed about the progress of work ;

h) be responsible for all security and watch and ward arrangements at site till handing over of the building to the first party ; and

i) maintain necessary insurance against loss of materials/cash, etc. or workman disability compensation claims of the personnel deployed on the works as well as third party claims.

f) Pay all duties, taxes and other levies payable by construction agencies as per law under the contract (First party will effect deduction from running bills in respect of such taxes as may be imposed under the law).

10. Variations / Extra Items

The works shall be carried out by the second party in accordance with the approved drawings and specifications. However, if, on account of site conditions or any other factors, variations are considered necessary, the following procedure shall be followed:-

a) The second party shall provide the Engineer with a quotation for carrying out the Variation when requested to do so by the Engineer. The Engineer shall assess the quotation, which shall be given within seven days of the request before the Variation is ordered.

b) If the quotation given by the second party is unreasonable, the Engineer may order the Variation and make a change to the Contract Price which shall be based on Engineer's own forecast of the effects of the Variation on the Contractor's costs.

c) The second party shall not be entitled to additional payment for costs which could have been avoided by giving early warning.

11. Securities

The Performance Security shall be provided to the Employer no later than the date specified in the Letter of Acceptance and shall be issued in an amount and form and by a bank or surety acceptable to the Employer. The Performance Security shall be valid until a date 28 days from the date of issue of the Certificate of Completion in the case of a Bank Guarantee.

12. Termination

12.1 The Employer may terminate the Contract if the other party causes a fundamental breach of the Contract.

12.2 Fundamental breaches of Contract include, but shall not be limited to the following:

(a) the contractor stops work for 28 days and the stoppage has not been authorized by the Engineer;

(b) the Contractor has become bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

(c) the Engineer gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Engineer;

(d) the Contractor does not maintain a security which is required;

12.3 Notwithstanding the above, the Employer may terminate the Contract for convenience.

12.4 If the Contract is terminated the Contractor shall stop work immediately, make the Site safe and secure and leave the Site as soon as reasonably possible.

13. Payment upon Termination

13.1 If the Contract is terminated because of a fundamental breach of Contract by the Contractor, the Engineer shall issue a certificate for the value of the work done less advance payments received up to the date of the issue of the certificate, less other recoveries due in terms of the contract, less taxes due to be deducted at source as per applicable law.

13.2 If the Contract is terminated at the Employer's convenience, the Engineer shall issue a certificate for the value of the work done, the reasonable cost of removal of Equipment, repatriation of the Contractor's personnel employed solely on the Works, and the Contractor's costs of protecting and securing the Works and less advance payments received up to the date of the certificate, less other recoveries due in terms of the contract and less taxes due to be deducted at source as per applicable law.

14. Dispute settlement

If over the works, any dispute arises between the two parties, relating to any aspects of this Agreement, the parties shall first attempt to settle the dispute through mutual and amicable consultation.

In the event of agreement not being reached, the matter will be referred for arbitration by a Sole Arbitrator not below the level of retired Superintending Engineer, PWD to be appointed by the first party. The Arbitration will be conducted in accordance with the Arbitration and Conciliation Act, 1996. The decision of the Arbitrator shall be final and binding on both the parties.

Annexure-A

BILL OF QUANTITIES

Sl. No.	Description of Work	Qty.	Unit	Estimated Cost (Rs.)		Amount
				In figure	In Words	

Gross Total Cost : Rs. .....

We agree to execute the works in accordance with the approved drawings and technical specifications at ..... percentage above/ below the estimated rates, i.e., for a total contract price of Rs. .....(amount in figures) (Rs. ..... amount in words).

Signature of Contractor

Annexure-B

Format of certificate

Certified th at th e w orks up to ---------- level in r espect o f construction of ---------- at ---------- have been executed in accordance with the approved drawing and technical specifications.

Signature
Name & Designation
(Official address)

Place :
Date :

Office seal