

**No. THI/PROP/872/03/2016**

**Embassy of India**

**Thimphu**

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**Dated the May 29, 2019**

**CORRIGENDUM-II**

**Reference:** Notice Inviting Tender No. THI/PROP/872/03/2016 dated May 03, 2019 and Corrigendum-I dated May 25, 2019 for “Renovation of Auditorium at EoI, Thimphu”.

**Subject:** Amendments in tender document after pre-bid meeting

Subsequent to queries raised by prospective bidders during the Pre-Bid Meeting held on May 17, 2019 at Embassy of India, Thimphu, Bill of Quantities (BoQ)/Technical Specifications has been amended and is at **Annexure-I**. The replies to the queries raised during the meeting are tabulated below:

S.No.	Query	Reply
1.	Acoustic panel BOQ line item no. #19, the description is not clear. You have asked for acoustic panels with NRC Value of .85 to 1 but the material description is not clear. To achieve the NRC value of 0.85 the material description and make should be clear.	Make incorporated. Refer item No. 19.1.
2.	For Line item # 21.23, Sound system proposed in BOQ the quantity of materials is not spelt out properly as well the system that you have asked for is a conventional type which is in the phase out state. Thus we request you to kindly provide us the detailed BOQ with your brand selection.	Modified. Refer item No. 21.23 of BoQ.
3.	Line item # 21.24, Display System for Auditorium is also of conventional type and the specification of screen and projector is also not spelt out clearly. Thus request you to kindly provide us the details of the same	The existing BoQ has been prepared on conventional concept and does not include hi-resolution display screen.  However, item for Projector remains same as item no. 21.24.2
4.	We have found that the auditorium also requires a proper stage curtains and truss system to hold lights and curtains which is missing.	Refer Item No. 19.3 of BoQ
5.	We would also like to raise our concern for proper camps to be arranged for our labors who would be stationed at the site for timely completion of the project.	Labour cannot be housed in the property. Bidder has to make arrangements for the same.
6.	A proper place for dumping of the scraps must be provided so that wastes can be dumped and segregated.	Management of waste has to be done by contractor at his own cost. No place inside the property would be provided for disposal of scrap/waste material.
7.	The windows need to be sealed as per our site visit.	Modified. Refer Item No. 18.6 of BOQ.

**2.** Bidders are advised to take into account the abovementioned amendments before submission of their bids against this tender. Bidders who have already submitted their bids as per earlier technical specifications can send their revised bids in the light of correct technical specifications as mentioned above. For any queries/clarifications, bidders may contact our Office through e-mail: [hoc.thimphu@mea.gov.in](mailto:hoc.thimphu@mea.gov.in).

**3.** This corrigendum will form integral part of tender and will be submitted duly signed and stamped along with bids.

**4.** Interested bidders may submit their bids on or before 1200 hrs on June 6, 2019. Technical bids will be opened at 1600 hrs on June 6, 2019. Interested bidders or representatives authorized by bidders may attend the bid opening.

**5.** All other terms and conditions against this Notice Inviting Tender shall remain unchanged

Sd/-

**(Sameer D. Akolkar)**

Second Secretary & Head of Chancery

E-mail: [hoc.thimphu@mea.gov.in](mailto:hoc.thimphu@mea.gov.in)

Tel. 00975-2-323227

**BoQ for "Renovation And Modernization Of The Auditorium Building With Acoustic Treatment, Control Room, Flooring, Lighting And Sound System, Construction Of Public Toilet At India House Thimphu"**

Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
1	<b>Dozer Excavation/Bench Development</b>					
1.1	Earthwork in excavation over areas by Dozer including levelling and dressing (Bench Development).	cu.m	32.00			
	<b>Sub Total(1)</b>					
2	<b>Excavation</b>					
2.1	Excavation in Foundation Trenches or drains ,including dressing &ramming disposal of surplus soil within 50m lead and all lift,complete as directed by EIC (Infra)					
2.1.1	Ordinary Soil	Cu.m.	60.50			
2.1.2	Hard soil	Cu.m.	60.50			
	<b>Sub Total(2)</b>					
3	<b>Stone soling ,Filling &amp; Edging</b>					
3.1	Filling of trenches, sides of foundation etc. in layers <200mm using selected excavated earth ramming etc. within all leads & lifts.	sq.m	72.60			
3.2	Providing and laying dry earth bedding under floors including consolidation each deposited layers by watering, ramming and dressing.	sq.m	26.26			
3.3	Providing and laying hand packed stone filling or soling with hard stones in foundation and rooms Including filling of voids with send/screened materials watering & ramming complete	Cu.m	49.36			
	<b>Sub Total(3)</b>					
4	<b>Anti-Termite Treatment</b>					
4.1	Providing and injecting chemical emulsion for Pre-construction antitermite treatment using aldrin emulsifiable 0.5% concentration in Auditorium flooring	Sq.m	225.00			
4.2	Providing and laying moisture barrier using plastic sheeting underlay-200 micro-metre	Sq.m	225.00			
	<b>Sub Total(4)</b>					

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
5	<b>Damp Proof Concrete</b>					
5.1	Providing and applying a coat of hot bitumen (maxphalt) 80/100 or equivalent using 1.7kg per sq.m including the surface dressing.-Auditorium flooring	Sq.m	225.00			
5.2	Providing and laying damp-proof course with cement concrete 1:2:4, 20mm aggregate ,50 mm thick in Toilet	Sq.m.	272.85			
	<b>Sub Total(5)</b>					
6	<b>Form work</b>					
	Providing and fixing centering and shuttering (formwork), including strutting, propping etc. and removal of formwork					
6.1	All works upto Foundation & plinth etc.	sqm	95.13			
6.2	Lintels, floor beams and bresumers cantilevers etc.	sqm	71.04			
6.3	Columns, pillars, post struts etc.	sqm	50.68			
6.4	Suspended floor, roof, landing, shelves and their supports, balconies, chajjas, etc.	sq.m	51.52			
	<b>Sub Total(6)</b>					
7	<b>Plain Concrete Cement</b>					
7.1	Providing and laying in position plain cement concrete excluding the cost of centering and shuttering in proportion 1:3:6 (1 cement : 3 sand : 6 graded crushed rock 20 mm nominal size) - All work upto plinth level	Cu.m	29.01			
7.2	Providing & mixing water proofing materials in the proportion 12kg/cum or as prescribed by the manufacturer.	Cu.m	52.03			
	<b>Sub Total(7)</b>					
8	<b>Steel Reinforcement</b>					
8.1	Providing and fixing Thermo-Mechanically Treated reinforcement bar (Yield Strength 500 MPa) for R.C.C works including cutting, bending , binding, placing in position complete.	kg	5256.70			
	<b>Sub Total (8)</b>					
9	<b>Reinforced Cement Concrete</b>					

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
	Providing & laying in position reinforced cement concrete excluding the cost of centering, shuttering and reinforcement in proportion 1:1:2 (1 Cement:1 Sand:2 Graded crushed rock 20 mm nominal size)					
9.1	All works upto Foundation & plinth etc.	cum	17.4			
9.2	In columns, pillars, posts, etc upto any heights	cum	4.4			
9.3	In suspended floors, roofs, landings, balconies, shelves,and chajjas	cum	7.7			
9.4	In beams, lintels, bands, staircases, windows	cum	7.9			
9.5	Bhutan Type Traditional Cornice in RCC 1:1:2, 20mm aggregate, including cost of formwork, finishing with 6mm thick plaster 1:3 on the exposed surface, excluding reinforcement and decorative painting, as per approved design for					
9.5.1	Single Storied building, including Phana	m	25.0			
9.5.2	Phana (at roof levels)	m	25.0			
9.5.3	Lintel Cornice (only cornice portion at external face)	m	15.0			
	<b>Sub Total (9)</b>					
<b>10</b>	<b>Masonry Works</b>					
10.1	Providing & laying concrete solid brick ( 240 mm X 115 mm 80 mm ) in Superstructure- In cement mortar 1:3	Cu. m	15.00			
10.2	Extra for concrete block brick work in superstructure above plinth level	cum	15.00			
10.3	Extra, for mixing water-proofing compound in cement mortar.	Cu. m	15.00			
10.4	Providing & laying Concrete Solid Block Masonry (115 mm) in superstructure -In cement mortar 1:3	sqm	60			
10.5	Providing & laying Random Rubble Masonry with hard stone in foundation & plinth-In cement mortar 1:4	cum	12.25			
	<b>Sub Total (10)</b>					
<b>11</b>	<b>Flooring</b>					

**BoQ for "Renovation And Modernization Of The Auditorium Building With Acoustic Treatment, Control Room, Flooring, Lighting And Sound System, Construction Of Public Toilet At India House Thimphu"**

Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
11.1	Providing & fixing white/ coloured anti-skid glazed tiles in flooring on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement :300x300 mm	sq.m.	37.57			
11.2	Providing & fixing white/ coloured glazed tiles in walls of toilet (Dado Work) on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement :300x300 mm	sq.m	20.00			
11.3	Providing & fixing white/ coloured glazed tiles in flooring laid on bed of 12mm thick cement mortar 1:3 finished with flush pointing in white cement: 600 x600 mm -auditorium flooring preferably in wooden colour	sq.m.	225.00			
11.4	Providing & fixing white/ coloured Glazed tiles, 150 x150 mm in skirting, step risers, dado, finished with flush-pointing in white cement	sq.m.	12			
11.5	Providing & fixing 6mm, commercial ply to stage area	sqm	75.00			
	<b>Sub Total (11)</b>					
12	<b>Plastering</b>					
12.1	Providing and laying 15mm Cement plaster (C.M. 1:4) on external walls	sq.m	60.00			
12.2	Providing and laying 12mm Cement plaster (C.M.1:4) on internal walls	sq.m	144.00			
12.3	Providing and laying 6 mm cement plaster C.M. 1:4 in ceilings	sq.m	37.57			
	<b>Sub Total (13)</b>					
13	<b>Roofing</b>					

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
13.1	Providing & Fixing Pre Painted Corrugated Galvanised Iron (CGI) sheeting including bolts, hooks & nuts 8mm dia with bitumen & G.I limpet washer filled with white lead for connection excluding the cost of purlins, rafter & trusses - 25g sheet	sqm	93.60			
13.2	Providing & fixing 450mm over all semi-circular plain G.I gutter, including brackets, bolts, nuts, washers & rain water pipes connections, excluding the cost of pipes	m	25.00			
13.3	Providing & fixing 600mm ridges or hips in Pre Painted Galvanised Steel sheets, including bolts, hooks and nuts 8mm dia G.I limpet and bitumen washers for connection.	m	9.00			
13.4	Providing & fixing Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. Priming					
13.4.1	In Tees, angles, flats and channels	kg	3500.00			
13.4.2	Steel work welded, in built up sections, trusses, frame-works including cutting, hoisting, fixing and appl. Priming (Entry Gates )	kg	300.00			
13.5	Providing and fixing wind tie of 40 x 6mm flats	m	36.00			
13.6	Providing and fixing on wall face PVC coupler-110mm for rigid rain water pipes including jointing with seal ring leaving 10 mm gap for thermal expansion - complete	each	10.00			
13.7	Providing and fixing M.S round holding down bolts with nuts & washer plates	kg	175.00			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
13.8	Providing and fixing bolts of various size including nuts & washer	kg	175.00			
13.9	Providing & fixing M.S. rivets of various sizes	kg	175.00			
13.10	Providing, making and fixing M.S. flats, straps, sole plates etc.	kg	175.00			
13.11	Providing and fixing on wall face single socketed rigid PVC ( Working Pressure 4 kgf per sq.cm) rain water pipe-110mm including jointing with seal ring leaving 10 mm gap for thermal expansion- complete	m	50.00			
	<b>Sub Total (13)</b>					
14	<b>Painting</b>					
14.1	Providing and applying Water-Proof Cement Paint on new works - three coats on External Walls.	sqm	60.00			
14.2	Providing and applying acrylic washable distemper, two coats on new work, including cement primer coat- Internal Walls	sqm	144.00			
14.3	Providing & applying one coat of primer - wood work - pink primer	sq.m	40.00			
14.4	Providing & applying wood preservatives- Brown, two coats on new work.	sq.m	40.00			
14.5	Providing, preparing & applying sum dung non washable Bhutanese painting -Ding	sq.m	60.00			
	<b>Sub Total(14)</b>					
15.0	<b>Door and Windows</b>					
15.1	Providing and fixing in position dressed wood work in frames of doors, windows, clerestory windows and other frames wrought, framed and fixed in position- in mixed conifer.	Cu. m	3.00			



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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
15.2	Providing & fixing blue pine moulded beading to door, window frames with iron screws including plugs, priming coat on unexposed surfaces (50 mm x20 mm)	m	60.1			
15.3	Providing & fixing 38 mm thick Panelled or glazed doors Shutters etc. complete including wood or glass for pannels, hinges and fixed in position- in mixed conifer.	sqm	4.84			
15.4	Providing & fixing 35 mm thick Panelled or glazed doors Shutters etc. complete including wood or glass for pannels, hinges and fixed in position- in mixed conifer.	sqm	25.20			
15.5	Providing and fixing 30 mm thick flush doors shutters (prefabricated ), block-board core with commercial ply veneer	sqm	12			
15.6	Providing & fixing Wire-gauze Shutters 25 mm for doors & windows using galvanised M.S wire gauze 0.56mm dia wire including the cost of hinges fixed in position- in mixed conifer.	kg	4.84			
15.7	Providing & fixing ornamental steel grills (10 mm wide, 5 mm thick ) in frames with M.S. flats & bars including round headed bolts and nuts etc.	kg	200.00			
15.8	Providing & fixing anodised aluminium butt hinges with necessary aluminium screws etc. complete (For Both main and wire gauge shutter )					
15.8.1	100mm-For Windows	each	16.00			
15.8.2	175mm-For Doors	each	48.00			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
15.9	Providing and fixing Brass Tower Bolt (barrel type) of approved quality with necessary screws etc. complete.					
15.9.1	250mm- for Door	each	6.00			
15.9.2	100mm- For Window	each	8.00			
15.1	Providing and fixing brass Sliding Door Bolt with Nuts of approved quality with necessary screws etc. complete.					
15.10.1	250mm	each	6.00			
15.10.2	200mm	each	12.00			
15.11	Providing and fixing brass Handle of approved quality with necessary screws etc. complete.					
15.11.1	100mm	each	6.00			
15.11.2	75mm	each	12.00			
15.12	Providing & fixing bright finish brass spring-loaded, hinged door-closer with necessary screws etc. complete	each	2.00			
15.13	Providing and fixing Bright finish M.S. Door Stopper with nuts with necessary screws etc. complete	each	8.00			
15.14	Providing & fixing bright finished brass hook-and-eye with necessary screws etc. complete,100 mm	each	8.00			
15.15	Providing and fixing 40x3mm M.S. hold fast 400mm long, fixing to frame with 10mm bolts & nuts, plugs, concrete blocks 300x100x150mm with 1:3:6, 20mm aggregate	Each	50.00			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
15.16	Providing & fixing anodised Aluminium section for doors, windows, ventilators, partitions framing, false ceiling framing of specified sections including all accessories such as U-rubber gasket for fixing glass panes, weather strips or weather seals, roller, springs, etc complete (excluding the cost of glass panes or boards in case of partitions/doors/windows and ceiling boards in case of ceiling) Sliding and open able doors	Kg	100.00			
15.17	Extra for providing and fixing plain glass panes on aluminium section complete (excluding the cost of aluminium frame & accessories) -5.5mm thick, plain glass	sqm.	15.00			
15.18	Providing & fixing Panelled or Panelled-&-Glazed partition, single-central-panelling including frame-100mm framing, 38mm thick Champ or Blue Pine panelling	sqm	75.00			
15.19	Providing & fixing Mixed Conifer (undressed) in wooden steps .	cum	5.00			
	<b>SubTotal(15)</b>					
16	<b>Water Supply and Sanitary</b>					
16.1	Providing and fixing European- type vitreous china w.c. pedestal including seat and lid with c.p. brass hinges, 15 lit. white PVC low level cistern , fittings, brackets, repair walls- White, with plastic seat & lid	Each	4.00			
16.2	Providing & fixing Indian-type vitreous china w.c squatting pan, including 100 mm H.C.I P or S trap, 10 lit low level vitreous china cistern & fittings, repair walls -580mm, colour Orissa-model	Each	2			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
16.3	Providing and fixing white vitreous china wash basin, including C.I brackets, 15mm C.P brackets, 15mm C.P brass pillar taps, c.p. chain & rubber plug, 32mm p.v.c waste, 32mm dia trap & union, repair walls-Flat back basin size 550x400mm with a pair of 15mm c.p. brass pillar taps	Each	6.00			
16.4	Providing & fixing white vitreous china flat back, lipped front urinal basin 430x260x350mm including partition, fittings, brackets, G.I. flush pipe & spreaders, brass unions, G.I. clamps, painting, repair walls	Each	4.00			
16.5	Providing and fixing 600x450 bevelled edge mirror (superior glass) including 4mm AC sheet base fixed to wooden cleat.	Each	7.00			
16.6	Providing & fixing 450x120mm glass shelf, including c.p brass brackets fixed to wooden cleats	Each	7.00			
16.7	Providing and fixing C.P. towel rail 750x20mm with c.p brass bracket fixed to wooden cleats	Each	10.00			
16.8	Providing and fixing CP brass toilet paper holder.	Each	7.00			
16.9	Providing and fixing liquid soap container, c.p, including c.p. brass lid & brackets, wooden cleats, c.p. brass screws.	Each	6.00			
16.1	Providing & fixing brass full way valve with wheel-32mm	Each	4.00			
16.11	Providing and fixing CP brass stop cock 20 mm dia with standard CP knob.	Each	12.00			
16.12	Providing and fixing 15mm, standard vertical, c.p knob bib cock incl. fittings	Each	6.00			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
16.13	Providing & fixing P.V.C soil waste and vent pipes, single or double socketed, including pipe clip complete (excluding the cost of PVC fittings)-75 mm dia	m	15.00			
16.14	Providing and fixing 110mm dia PVC door bend,	Each	6.00			
16.15	Providing and fixing 110mm dia PVC plain bend,	Each	6.00			
16.16	Providing and fixing PVC Nahini floor trap 110mm dia inlet and 75mm dia outlet.	Each	10.00			
16.17	Providing & fixing plastic tank including all accessories complete- 1000 litres Capacity	Each	4.00			
16.18	Providing & fixing square mouth S.W gully-trap A-grade including C.I grating, C.I. cover with frame of 300 x 300 mm, brick masonry chamber	Each	6.00			
16.19	Providing and laying PPR pipes including fitting and clamps and repair of walls complete as approved by EIC					
16.19.1	20mm dia	m	30.00			
16.19.2	25mm dia	m	30.00			
16.19.3	32mm dia	m	10.00			
16.20	Constructing Brick masonry manhole in cement mortar 1:5, R.C.C top slab with 1:2:4 20mm aggregates, foundation concrete 1:4:8 40mm aggregates, 12mm plaster in CM 1:3 finished with floating coat of neat cement and making channels in cement concrete 1:2:4 20mm aggregates, neatly finished complete - Inside size 900 x 800 mm and 450 mm deep including C.I.cover with frame (light duty) 455mm x 610 mm internal dimension total weight of cover and frame to be not less than 38 kg. (weight of cover 23 kg. and weight of frame 15 kg.)	Each	2.00			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
16.21	Providing and laying G.I. Pipes including G.I. fitting like Tee, Bend ,Unioun , push on joints ,tail piece, joints					
16.21.1	32 mm dia	m	20			
16.22	Constructing Septic Tanks, in R.R Masonry in cement mortar 1:6, including fittings, C.I cover with frame, 40mm thick concrete flooring (40mm aggregates) cement plaster concrete base in C.C 1:4:8 etc. complete as per standard design - for 50 users	Each	1			
16.23	Constructing Soak Pit -Size 1200x1200x1200mm, filled with brick bats including 100mm SW drain pipe X 1200mm long	Each	1			
16.24	Providing & fixing in position urinal partition in granite slab of 1.00 m x 0.60 m x 20 mm thick of approved colour & shade with half round, with all necessary accessories for fixing etc., complete in all respect between urinal bowls with wooden plugs fixed in walls and brass screws.	sqm	4			
16.25	Providing and Laying Ductile Iron K - 9 pipes 100 mm for Chimny including all fittings	m	10			
	<b>Sub Total(17)</b>					

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
17	<b>Protection Works</b>					
17.1	Providing and laying 50mm thick Plinth Protection and grouted with fine sand mix including well rammed, finishing the top smooth With cement concrete 1:3:6, 20mm aggregates, laid over 75mm thick layer of compacted gravel (40mm)	sq.m.	37.50			
17.2	Constructing second class brick masonry open surface drain in cement mortar 1:4 including earth work in excavation 100mm thick concrete bed 1:5:10, 40mm aggregate and 25 mm thick cement concrete 1:2:4, 12mm aggregate for filling haunches including 12mm cement plastering 1:4 with a floating coat of neat cement and disposal of surplus earth etc. complete - 250mm x 300mm depth.	m	25.00			
17.3	Providing and fixing welded steel work in grating over surface drains	Kg	163.89			
	<b>Sub Total (17)</b>					
18	<b>Dismantling</b>					
18.1	Dismantling wooden flooring including stacking useful materials & disposal of rubbish	sqm	225.00			
18.2	Demolishing cement concrete 1:3:6 & richer, including disposal of materials	cum	22.50			
18.3	Demolishing brick work including stacking useful materials & disposal of rubbish-In cement mortar	cum	6.70			
18.4	Dismantling doors, windows, and clerestory windows <3sq.m (steel, wood) including architrave, hold fasts,stacking within 50m lead	each	1			
18.5	Dismantling existing acustic strawboard on auditorium walls and extracting useful materials	sqm	240.00			
18.6	12mm, commercial ply to cover existing windows from inside	sqm	75.00			
	<b>Sub Total (18)</b>					

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
19	<b>Acoustic Panels</b>					
19.1	Providing and fixing wall paneling comprising of 25mm thick commercial wall panel boards of size 600x600mm fixed into wall using surface impalers. Impalers shall be fixed on the wall using the screws and impalers shall have the darts for holding the panels in place. Panels shall be of square edged with NRC value between 0.85 to 1 of standard make. Complete as per the standard drawings and specifications. Complete as per the EIC. Any of the following makes : Anutone; Ecco board Wooden board with fire rated and chemically treated for termite protection. ((it should have NRC Value between .85 to 1).	sqm	265.00			
19.2	Providing & Fixing of Mineral Fibre Acoustical Suspended Ceiling System with Fine Fissured (Microlook) egde tiles with 15mm Exposed grid. The tile shall be laid on Suprafine 38 with 15 mm wide T - section flanges colour white having rotary stitching on all T sections i.e. the Main Runner, 1200 mm & 600 mm Cross Tees with a web height of 38mm and a load carrying capacity of 14 Kgs/M2. The T Sections have a Galvanizing of 90 grams per M2.	sqm	268.10			
19.3	Main/rear curtain made out of Velvet curtain cloth with horizontal/vertiecal I sliding arrangement complete with fixing rails, (sliding arrangement & motorized operation complete with runners, Master runners, pulleys, 3mm steel wire rope, one HP motor (Crompton) 2 nos. air breaker contractors (L&T seiemens, 2 nos micro switche for auto stop, 3 nos push buttons for forward, reverse and stop position. The curtain should be draped to half area when in close position. Minimum overlap at center should be 900mm and should be stiched with double gathering with platform.	sqm	2.00			
	<b>Sub Total (19)</b>					
20	<b>Seating arragment</b>					



**BoQ for "Renovation And Modernization Of The Auditorium Building With Acoustic Treatment, Control Room, Flooring, Lighting And Sound System, Construction Of Public Toilet At India House Thimphu"**

Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
20.1	Supply of Auditorium Chairs , made as per Fire Safety Norms and Standards, with maximum lumbar support for fatigue free healthy seating, engineered for ergonomic shape, environment friendly , complete is all respect as directed and in color shade approved by the the Engineer-in-Charge	each	225.00			
	<b>Sub Total (20)</b>					
<b>21</b>	<b>Electrical works</b>					
21.1	Light point wiring with 1.5 sq mm PVC insulated copper conductor 1.1 kV grade wires in 2 mm thick HDPE concealed conduit including cost of cutting and filling chases and including providing and fixing a 6 amp 240 Volt grid plate mounted switch with moulded cover plate in sheet steel galvanised box and circuit wiring and including circuit wiring with 1.5 sq mm copper conductor PVC insulated wire, complete as required					
	One point controlled by one 6 amp switch					
21.1.1	Short Point (upto 3m)	each	110			
21.1.2	Medium Point (3 to 6 m)	each	150			
21.1.3	Long Point (6 to 10m)	each	80			
21.2	Wiring for a 5/6 pin 240 volt 6 amp single phase and neutral switch socket outlet with 2.5 sq mm PVC insulated copper conductor 1.1 kV grade wires in 2 mm thick HDPE concealed conduit including cost of cutting and filling chases and providing and fixing of a combined 3 pin 240 volt 6 amp socket outlet with safety shutters and 6 amp 240 volt single pole grid plate mounted switch with moulded cover plate in galvanised sheet steel box and including circuit wiring with 2.5 sq mm copper conductor PVC insulated wire, complete as required	each	100			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
21.3	Wiring for 5/6 pin 240 volt 16 amp single phase and neutral switch socket outlet with 4.0 sq mm PVC insulated copper conductor 1.1 kV grade wires in 25mm dia 2 mm thick HDPE conduit including providing and fixing of a combined 3/6 pin 240 volt 16 amp switch socket outlet with safety shutters and 16 amp 240 V single pole grid plate mounted switch with moulded cover plate in sheet steel galvanised box complete as required	each	150			
21.4	Providing and making 300 x 300x 300 mm Brick masonry chamber with CI cover in ground complete with sand cushioning at Meter Board and Tel tag Block	each	4			
21.5	Providing and fixing of bracket holder for stair case light,balcony and dinning/drawing room	each	18			
21.6	Supply and drawing of the following P.V.C. insulated copper conductor 1.1 kV grade wires from meter to Distribution Board including the cost of providing and laying the concealed 2 mm thick HDPE conduits and including the cost of cutting and filling chases as required and making suitable end connections complete as required					
21.6.1	4 x 16sq mm PVC insulated copper wires in 32 mm dia 2 mm thick HDPE conduit (Meter Board to DB)	m	200			
21.6.2	25 mm dia HDPE conduit (from DB to switch board and switch board to points separately)	m	400			
21.6.3	32 mm dia HDPE conduit (from main to each DB)	m	250			
21.7	Wiring for lighting circuit with 1.1kV grade, 2 x 2.5sq mm PVC insulated copper conductor cable in PVC surface conduit including connections, painting, testing and commissioning etc. as required,	m	400			
21.7.1	Supplying of 6A SP/TPN MCB	each	150			
21.7.2	Supplying of 16A SP/TPN MCB	each	50			
21.7.3	Supplying of 32A SP/TPN MCB	each	40			
21.7.4	Supplying of 50A and 62A SP/TPN MCB	each	20			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
	<b>Main Switch Board Lighting Auditorium</b>					
21.8	Design, manufacturer, supply, installation, testing and commissioning of 2 mm thick MS sheet fabricated cubical type meter board dust & vermin proof complete with hinged and lockable doors & covers with opening for meter reading. The meter boards shall be wall mounted and dead front construction complete with inter-connections by copper tapes/wires & powder coated etc. MDB suitable for 430V 3 phase 4 wire 50Hz AC supply					
21.8.1	a) Incoming /Outgoing as per calculation	Set	1			
	b) Bus Bar					
	Ms panel board with 3 phase indication light					
	<b>Main Switch Board Stage Lighting</b>					
21.9	Design, manufacturer, supply, installation, testing and commissioning of 2 mm thick MS sheet fabricated cubical type meter board dust & vermin proof complete with hinged and lockable doors & covers with opening for meter reading. The meter boards shall be wall mounted and dead front construction complete with inter-connections by copper tapes/wires & powder coated etc. MDB suitable for 430V 3 phase 4 wire 50Hz AC supply					
21.9.1	a) Incoming /Outgoing as per calculation	Set	1			
	b) Bus Bar					
	c) Ms panel board with 3 phase indication light					
21.10	<b>EARTHING</b>					
21.10.1	Supply and making earth pits including the cost of 5 feet length 40 mm dia Class B GI Pipe, funnel with wire mesh charcoal, coke, salt all earth work masonry work for manhole CI cover frame painting etc. as required with as per IS 3043 : 1987. with Copper Plate 600x600mmx3mm	each	3			
21.10.2	Providig and fixing 4.0 mm dia single strand insulated copper conductor for earthing of DBS and main panel	m	150			
21.10.3	Providing and fixing 2.5mm dia single strand insulated copper conductor for loop earthing	m	450			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
21.10.4	Providing and laying of metal strip at 0.5m below ground level for as strip earth electrodes including soldering etc as required GI strip 25 x 4mm	m	50			
21.11	<b>LIGHTING DETAILS</b>					
21.11.1	Providing and fixing Ceiling rose - Anchor -3224	each	60			
21.11.2	Providing and fixing domestic luminaries for fluorescent tube fittings incl., suitable tube 1x40W 1200mm Philips TMS 200/140 LPF of approved brand	each	10			
21.11.3	Providing and fixing 1200mm ceiling fan including electronic regulator of approved brand	each	8			
21.11.4	Providing and fixing Aluminium louveres for exhaust fan complete all accessories as required.(crompton)	each	4			
21.11.5	Cyclorama screen in plastic perforate material. The screen to be fixed on tublat frame					
21.11.5.1	1000W PLANO CONVEX SPOT LIGHT	each	4			
21.11.5.2	1000W FRESNEL HALOGEN SPOT LIGHT	each	4			
21.11.5.3	1000W HALOGEN SPOT LIGHT (PROFILE)	each	4			
21.11.5.4	5X3W LED LIGHT FOR CYCLORAMA & STAGE BAR	each	12			
21.11.5.5	Modular High Efficiency Mirror Optics (4x 14w	each	25			
21.12	Cyclorama Juncton Box specially designed for required to be enable every similar color light to be connected in parallel within the capacity of dimmer.	each	2			
21.13	Providing and fixing indoor ceiling mounted luminaries suitable for LED lamp for maximum wattage upto 1x18 watts complete with all accessories such as base, holder, glass globe etc. excluding lamp - Globe dia 250, projection 315mm, finish-painted.of approved brand	each	12			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
21.14	Supplying of LED lamps 18 w,250 volts A.C, of approved brand	each	12			
21.15	LED LAMPS of approved brand	Each	98			
	<b>FIRE FIGHTING AND PROTECTION</b>					
21.16	Smoke detectors					
	Supply and installation of Analog addressable optic smoke detectors(multi sensor) suitable for detecting a wide range of smoke from slow smouldering and fast flaming fire.The detector shall have following features and also including supply of all fixing materials complete as required.					
21.16.1	I. Solid state addressing arrangement in combination with a hand held programmer to configure the sensor address.	Each	35			
21.17	Electronic Hooters					
	Supplying, installing ,testing and commissioning of Hooter Cum Strobe at 85 dBA @ 3m for Audible annunciation and 75cd flashing at 1 Hz for visual indication. With Control Module. The Hooter cum Strobe with Control Module shall be flush or surface mountable type with all accessories etc., complete and as per technical specification. The devices shall be of EN and LPCP listed.	Each	10			
21.18	<b>Manual call station</b>					
21.18.1	Supplying, installing ,testing and commissioning of break glass type Manual call point . The Manual call point with monitor module shall be single stage type with all accessories and suitable sinages complete., the Manual call point shall be as per technical specification. and shall be of EN and LPCP listed.	Each	10			
21.18.2	Supplying, installing ,testing and commissioning of Addressable Monitor Module complete with all accessories. The two wire monitor module shall mount in a 101.6 mm square, 54 mm deep electrical box or with an optional surface back box. The monitor module shall be as per technical specification and shall be of EN and LPCP listed.	Each	10			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
21.18.3	Supply, installing testing and commissioning of Addressable Control Module. It shall be provided to supervise and control the operation of one conventional device of compatible, 24 VDC powered, polarized audio/visual Notification layout. The Addressable control module shall be as per technical specification. And shall be of EN and LPCP listed.	Each	2			
21.19	<b>Fire alarm control panel</b>					
21.19.1	Supply, installation,testing and commissioning of micro processor based,digital,distributed processing real time,multi tasking and multi - user type 4 loops as per Analogue addressable type fire alarm control panel (FACP) and control panel shall have the following features including supply of all fixing materials interconnections earthing complete as required.	set	1			
21.20	<b>Supply and Wiring</b>					
	Supply and wiring with 2C x 1.5 sq.mm FR twisted pair shielded,1.1KV grade PVC insulated unarmoured copper conductor cable, PVC overall sheathed cable in already laid conduit with interconnections complete as required (For fire detector )	Mts	1500			
21.21	<b>Conduit</b>					
21.21.1	Supply and embedment of 25mm dia HGMS conduit concealed in wall / floor / ceiling including supply and drawing of 12 SWG Glwire as fish wire including supply of all fixing materials complete as required	Mts	600			
21.22	<b>FIRE EXTINGUISHERS -</b>					
21.22.1	Supplying, installing and commissioning of ABC Powder 10 Kg Fire Extinguisher containing Mono Ammonium Phosphate Powder 50, Stored Pressure Type, Pressure Gauge, fitted with discharge hose, wall mounting bracket etc., Discharge Time less than 15 Secs, Controllable discharge mechanism, Range minimum 4 Meters, applicable on Class A,B,C and electrically started Fire, A Rating- 8A, B Rating 34B, Can Construction : Deep drawn & Co2 Mig welded, Valve Construction : Forging & Machining, Internal Coating of Can : Epoxy Powder coating, External Coating of Can : Epoxy Polyester Powder coating, Sheet metal thickness : 1.60MM, ISI approved as per IS:15683:2006	Each	12			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
<b>21.23</b>	<b>Sound System</b>					
21.23.1	FOH LINE ARRAY (L&R)		0			
a)	SITC ACTIVE HIGH POWER 2800 W POWER RATING 136 DB SPL MAX RDNET REMOTE MONITORING AND CONTROL 18" HYPER VENTILATION NEODYMIUM SUBWOOFER Standard compliance CE MARKING: Yes Make: RCF/VERTEC HARMAN/NEXO Details; Subwoofer,Amplifier for subwoofer and FOH speakers, Stage front fill loudspeakers	Nos	2			
b)	SITC 1400 Watt Peak power - 700 Watt RMS 135 dB max SPL 55 Hz 20 kHz frequency response 2 x 10" Woofers 1 x 3" Compression Driver Standard compliance CE MARKING: Yes Make: RCF/VERTEC HARMAN/NEXO Details; Main FOH speakers with built in amplifiers	Nos	6			
c)	Suspending flying accessories Make: RCF/VERTEC HARMAN/NEXO Details: Mounting bracket for Array speakers	LOT	1			
d)	SITC SC-Semicolon 2 AES Signal Cable (100m) Make: SOMMER Details; Cables for connecting speakers	Nos	1			
21.23.2	MOH		0			
a)	SITC LF Transducer: 12 in (305 mm), cone HF Transducer: 1.4 in (35.6 mm) compression driver Frequency Response (-6 dB) 49 - 20 kHz Frequency Range (-10 dB) 47 - 20 kHz Nominal Coverage Angle: 75° Axisymmetric Maximum Rated SPL1: 126 dB Amplifier: Class D Peak: 800 W (LF), 200 W Make: QSC/RCF/TURBOSOUND	Nos	2			
b)	SITC AES Signal Cable (100m) SOMMER Details: cables for connecting	Nos	1			
c)	Green Room		0			

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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
	LF Transducer: 8 in (203 mm), cone HF Transducer: 1.4 in (35.6 mm) compression driver Frequency Response (-6 dB) 56 - 20 kHz Frequency Range (-10 dB) 53 - 20 kHz Nominal Coverage Angle: 90° Axisymmetric Maximum Rated SPL1: 124 dB Amplifier: Class D Peak: 800 W (LF), 200 W (HF) Make: QSC/RCF/TURBOSOUND Loudspeaker for Green rooms and Pre function area, Speakers for Post function area,DI Box,Amplifier for Pre/Post function area and green room	Nos	2			
21.23.3	Microphones		0			
a)	Wireless Handheld BLX D Make: SHURE Details: <u>Wireless Handheld Microphone</u>	Nos	2			
b)	PODIUM 18" Super Cardiac MX DC Make: SHURE Details: <u>Wired stage microphone</u>	Nos	1			
c)	SITC AES/EBU DIGITAL Signal Cable (50m) Make: SOMMER Details: <u>Cables</u>	Nos	1			
21.23.4	Mixer DIGITAL		0			
a)	SITC 96kHz FPGA processing, 32-48-channel Digital Mixer with 25 Faders, 6 Fader Layers, 32 x 32 USB Interface, and Network Audio Support, 0.7ms latency, Automatic mic mixing makes it easy to manage large multi-mic setups Make: DIGICO/SQ Details; Digital audio /amplifiers processor,Expansion for audio processor, 32 Channel audio mixer,Outboard effect processer,Control room Speakers, AES digital output	Nos	1			
21.23.5	Cabling & Accessories		0			
a)	Interconnects, connectors, EP, XLR, TRS, SPEAKON -AXR SERIES Make: AMPHENOL AX SERIES Details: <u>Cable end XLR male/female</u>	Nos	140			



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Sl. No.	Description of Items	Unit	Quantity	Quoted Rate		Amount (Nu.)
				In Figure( Nu.)	In Words(Nu.)	
b)	Snake Cable 32 Ch 40mtr Make:SOMMER/KLOTZ Details: Cables	Nos	1			
c)	DI BOX Make:RADIALBSS Details; Stage breakout box with 12 mic in 2 line in and 2 line out	Nos	1			
d)	ONLINE TRUE SINE WAVE UPS 1-500 Make:APC	Nos	1			
21.24	<b>DISPLAY SYSTEM FOR AUDITORIUM</b>					
21.24.1	Removing along with its mounting arrangement Tensioned Motorised Front Projection Screen, Matte White, Size: 290" Diagonal - 153.5"H X 246"W VIEWING AREA with an additional black drop of 36". Wide format 16:10 aspect ratio.	<b>each</b>	1			
21.24.2	Removing along with its ceiling mountsLUMENS, Native resolution WUXGA(1920 X 1200) with standard Lens. Contrast Ratio: Up to : 7500:1 Aspect ratio : 16:10 native	<b>each</b>	1			
21.24.3	Supply, Installation, testing & commisioning of the following equipments and accessories as per the design & drawings and as instructed by EIC.	<b>each</b>				
21.24.3.1	32 Inch LED display for Green room including wall mounting arrangement	<b>each</b>	1			
21.24.3.2	32 Inch LED display with Floor mount cart for stage foldback display	<b>each</b>	1			
	<b>Sub Total (21)</b>					
	<b>Greand total</b>					
	<b>Greand total (In Words)</b>					