Hindustan Prefab Limited.

(A Govt. of India Enterprise)

Provision of Furniture, Acoustic, Heating Ventilating and Air Conditioning System, Audio System and Connected Items for Auditorium at Shokhuvi, Nagaland

I.	FURNISHING & STAGE LIGHTING WORKS				ANNEXURE I	
SL. No.	**Description of Items**	**Quantity**	**Unit**	**Rate**	Amount (in Rs)	**Remarks**
A	**FURNISHING WORKS**					
	Supply ,Installation ,Testing& Commisioning of Following Works:					
1	MAIN & CENTER CURTAIN made out of velvet curtain cloth with horizontal sliding arrangement complete with fixing rails, brackets, sliding arrangement & motorized operation complete with runners, master runners, pullies, 3mm steel wire rope, 1 HP motor (Crompton) 2nos. air breaker contactors (L&T/SIEMENS), 2nos. micro switches for auto stop, 3 nos push buttons for forward, reverse and stop positions. The curtain should be draped to half area when in closed position. Minimum overlap at centre should be 900mm and should be stitched in double gathering Appx. Size:-13000mm x6750mm	2.00	each	380,000.00	760,000.00	Market Rate
2	REAR CURTAIN made out of glazed cotton cloth with horizontal sliding arrangement complete with fixing rails, brackets, sliding arrangement and motorized operation complete with runners, master runners, pullies, 3mm steel rope wire, 1HP motor (Crompton) 2 nos, air breaker contactors (L&T/SIEMENS), 2 nos. micro switches for auto stop, 3 nos. push buttons for forward, reverse and stop positions. The curtain should be draped to half area when in closed position. Minimum overlap at centre should be 900mm. The curtain should be stitched in double gathering. Appx. Size:- 13000X6750	1.00	each	370,000.00	370,000.00	Market Rate
3	CYCLORAMA CUM SCREEN :- Providing and fixing cyclorama screen in plastic perforated material. The screen to be fixed on tubular frame made out of 35mm dia MS pipe. Appx. Size:- 30fit x 15 fit	1.00	each	200,000.00	200,000.00	Market Rate

4	WINGS :- Providing and fixing cloth wings made out of black glazed cotton cloth fixed on 6mm thick commercial plywood fixed on one side of MS 50mm x 25mmx 16G pipe wielded frame work. The pipe framework made out of 25mm x 50 mm pipe. of size 6000x1200mm c/c 900 x 900 fixed with overhead pivote track complete with duly painted on both framework.	6.00	each	48,750.00	292,500.00	Market Rate
5	FRILLS :- Providing and fixing average frills made out of double gathering glazed cotton cloth to be installed above the stage on 28mm dia ms pipe. Size: 13000 (AV) x 1800	5.00	each	45,000.00	225,000.00	Market Rate
6	MOTORISED LIGHTING BAR SYSTEM: Supply and installation of motorised lighting bar type operated with 2 HP single phase motor ,heavy duty gear box ,gear control brake drum of size 150 mm dia with 9 kg torque ,2 Nos air breaker switch for auto stop 48 mm dia GI pipe of suitable size for drums with suitable size with 6 mm rope wire to liftv the suitable size 500 kg capacity	4.00	each	150,000.00	600,000.00	Market Rate
7	Stage Personium Wall: MS Rectangular Pipe Frame Structure: MS Pipe size : 50mmx 25 mm x 16 G Structure Size : 1200 mm width x stage Height approx 5000m. Structure to be made using rectangular Pipe frame at 900 x 900 c/c. 6mm commercial ply to be fixed on the front side of the frame.	4,000.00	kg	95.00	380,000.00	Market Rate
8	Grid Supplying fabricating and installing structural grid fabricated out of MS PIPE/40mmx40mmx5mm (NS) MS angle above stage for supplying light bars. Curtains wing set bar sets. suspending the structure from trusses with suitable size of MS 35x35x5/ flat 35x5	3,000.00	kg	95.00	285,000.00	Market Rate
B	**STAGE LIGHTING**					
1	1000 W Halogen profile light consisting of 2 nos. 150mm dia PC lenses, imported socket, ellipsoidal anodized aluminums reflector, 1000W halogen BipinT-11 lamp, yoke colour frame & suitable clamp .	5.00	each	18,450.00	92,250.00	Market Rate

2	1000W, 240 Volt, PAR Sealed Beam Light with CRC Sheet Metal and aluminum die casting, mat black color, yoke & clamp l lamp Philips, lax man siliveniya	20.00	each	5,625.00	112,500.00	Market Rate
3	1000W Halogen Fresnel light consisting of 1000W Halogen Bipin T-11 lamp, 150mm dia , Imported socket, bottom sliding knob, yoke, colour frame & suitable clamp.	8.00	each	16,200.00	129,600.00	Market Rate
4	500W Halogen Cyclorama Flood Light with 500W Halogen tube. Aluminum anodized reflector, 2 nos compressible recessed single contact holders, color frame & suitable clamp	16.00	each	5,000.00	80,000.00	Market Rate
5	1000 W Halogen light with mash & barndoor consisting of 2nos. single contact compressible holders, yoke, 1000W halogen tube & suitable clamp	6.00	each	3,125.00	18,750.00	Market Rate
6	M.S. Pipe Ladders to be provided on sides of the Stage to be fixed on the existing GI pipe or top grid. Made of 50mm x 25mm MS pipe. [a] Size:- 600 x 600	6.00	each	10,000.00	60,000.00	Market Rate
7	1000W Halogen Plano convex spot light complete with1000 W Halogen Bipin T-11 lamp, spherical anodized reflector, imported socket, and 150mm dia plan convex lens, bottom sliding knob, yoke, color frame & suitable clamp.	8.00	each	12,000.00	96,000.00	Market Rate

8	Moving Head 5R , Automatic re-strike of lamp in case of accidental switching off, Lamp on/off via DMX; reset via DMX, Optical group:3 lenses with multi-coated treatment, Borosilicate diachronic parabolic reflector, Focus: Motorized focus, Zoom:3 selectable beam aperture angles (11° / 15° / 18°), Motorized iris Dimmer / shutter / strobo: Linear dimmer, Shutter, Strobe from 0,85 flash/sec to 10 flash/sec, Colours:2 colour wheels (linear selection); 8 colours + open each Color change with blackout sync, Gobos:2 gobo wheels: Gobo wheel 1: 7 rotating and 16 bit index able Gobos (interchangeable), Gobo wheel 2: 11 gobos, (interchangeable), Gobo change with synchronized blackout, , Effects:Indexable prism rotating in both directions (3-facet), Frost:2 frost filters, Pan / Tilt, Pan 540° (3,9 sec.), Tilt 320° (2,6 sec.), Pan / Tilt locking system, 16-bit resolution, Super Speed function (4 selectable speeds), Automatic Pan/Tilt repositioning in case of knocks, Internal Microcomputer:26 DMX cannels,Connections:2 XLR connectors (In and Out) with 3 and 5 poles selectable by user, with Dome. Type: XR-9, Make: PLS A-PRO,EQVALANT	4.00	each	146,250.00	585,000.00	Market Rate
9	wall mounted dimmer with patch panel 12 nos single phase 4 KW electronic dimmers to be distributed in 3 phases with suitable bus bar arrangement housed in sheet metal enclosure. Digital output, output light indicator, local controls etc.	2.00	each	100,000.00	200,000.00	Market Rate
10	Supply of light Controller Computer light controller, Category: Computer Light Controller. SPECIFICATIONS: Internal Flash Drive, similar in functionality to hard disk but fast and more rugged. Enough Storage for: The entire fixture library of more tham 3000 files, Over a hundred show files. Removable external memoty stick., Cache the entire fixture library of more than 3000 files, improved method of Fixture selection for patching. New locate fixture button, Fixture selects (Selecting the top row of faders), 2048 Channels. 240 functions., Shape Generator for instant creation of patterns and effects. 15 Playback Masters Controlling 450 memories, chases or cue lists. MIDI and Bass, Mid Treble sound to light triggers. Colour VGA output fitted as standard. Avo light	1.00	each	200,000.00	200,000.00	Market Rate

11	LED PAR Light with 54 x 3W high quality LED's 100-120V and 200-240V AC, 50/60Hz (210W@220V), RGBW color mixing +3200K ~ 10000K linearly adjustable color temperature, 0-100% linearly adjustable dimmer, Strobe 0~20 F.P.S, Beam Angle: 14°, LED board temperature display, DMX mode, display setting status, operation mode can be transmitted by synchronous control. Type:	10.00	each	24,750.00	247,500.00	Market Rate
12	Light Point Wiring from Patch Panel to be provided near stage to various stage light fixtures with 2.5 Sq.mm 3 Core PVC Insulated and PVC Sheathed Cable including of suitable size for laying these wires including 20 amps metallic clad sockets with box at top.	120.00	each	2,700.00	324,000.00	Market Rate
13	Fabricating and installing of perforated M.S. cable trays 40 x 100 x 40, 2 mm thick including horizontal and vertical bends, reducers, tees, cross members and other accessories as required and duly suspended from the ceiling with M.S. suspenders and including painting with powder coating etc as required.	100.00	m	900.00	90,000.00	Market Rate
14	Dmx 512	1.00	each	15,000.00	15,000.00	Market Rate
15	LED LIGHT AND MOVING LIGHT CONTROLOR	1.00	each	32,000.00	32,000.00	Market Rate
16	6 way splitter Make : NSC/SATAN	1.00	each	23,000.00	23,000.00	Market Rate
17	Dmx wiring	200.00	m	110.00	22,000.00	Market Rate
18	Supply and installation of Cat walks in MS structural steel framework 1200 mm brankes 900 mm wide upto required length over auditorium false ceiling of height as per drawing with the help of 50X50X5 MS angle 25mm thick wooden plank required MS hanger from truss with cleats bolts etc. railing on both sides of catwalk with 38 mm dia MS pipe placed 1200mm c/c vertically and horizontally runner with 38 mm dia MS pipe at a height of 400mm and 750mm from catwalk base level. painting of catwalk with 2 coats of red oxide and 2 coats of black enamel paint complete.	100.00	rm	5,000.00	500,000.00	Market Rate
	TOTAL ANNEXURE I (IN RS)				**5,940,100.00**	

II	**FALSE CEILING WORKS**	**ANNEXURE II**

SL. No.	Description of Items	Quantity	Unit	Rate	Amount (in Rs)	Remarks
1	Providing & Fixing of Soft Fibre Acoustical Suspended Ceiling System Microlook EDGE TILES WITH 15mm Exposed GRID.					
	The tiles should have Humidity Resistance (RH) of 95%, NRC 0.9 - 1.0, Light Reflectance ≥85%, Colour White, Fire Performance UK Class 0 / Class 1 (BS 476 pt - 6 &7) in module size of 600 x 600 x 20mm , suitable for Green Building application, with Recycled content of 66% GW & 74% RW%.					
	The tile shall be laid on grid of webheight 38 mm 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 . The Tile & Grid system used together should carry a 15 year warranty					
	INSTALLATION: To comprise main runner spaced at 1200mm centres securely fixed to the structural soffit using suspension system (specifications below) at 1200mm maximum centre. The suspension system at the end of each main runner should not be greater than 450mm from the adjacent wall.					
	Flush fitting 1200mm long cross tees to be interlocked between main runners at 600mm centre to form 1200 x 600 mm module. Cut cross tees longer than 600mm require independent support. 600 x 600mm module to be formed by fitting 600mm long flush fitting cross tees centrally between the 1200 mm cross tees.Perimeter trim of wall angles are of size 3000x19x19mm, secured to walls at 450 mm maximum centres.					

	SUSPENSION SYSTEM accessories s consisting of M6 Anchor Fasteners with Vertical Hangers made of Galvanised steel of size 26 x 26 x 25 x 1.2mm with a Galvanised Thickness of 80gsm, A pre Straightened Hanger wire of dia – 2.68 mm of 1.83 m length., thickness of 80gsm and a tensile strength of 344-413 MPa, along with Adjustable hook clips of 0.8mm thick, galvanised spring steel for 2.68 mm with a minimum pull strength of 110 kg. The adjustable clip also consists of a 3.5 mm aquiline wire to be used with the main runner.	675.00	sqm	2,700.00	1,822,500.00	Market Rate
2	Supply and installation of Sken T3,3mm thk, a sound deadening menbrane below roofing sheets of the structure.Sken T3 should be adhered below roofing sheets with stick adhesive S7 and also chiken wire mesh for adequate support / bracing to be provided by the contractor to hold Sken T3 in position (Rain noise insulation system)	700.00	sqm	3,000.00	2,100,000.00	Market Rate
	TOTAL ANNEXURE II (IN RS)				**3,922,500.00**	

III	**ACOUSTIC WORKS**				**ANNEXURE III**	
SL. No.	**Description of Items**	**Quantity**	**Unit**	**Rate**	Amount (in Rs)	**Remarks**
1	Providing and supplying Acousticalsoft fiber Wall Panelling with square edges made of fiber glass substrate 25mm thick and wrapped on the front side with an acoustically transparent and fire-resistant fabric with an option of colours as per the choice of the Architect/ Person in-charge of size 1200x600 or 600x600 mm providing a minimum sound absorption level of 0.90 NRC to be affixed to wall using impalers and construction adhesives .					
	INSTALLATION:					
	Impalers to be fixed to the wall surface using self tapping screws. wall panels shall be pierced through the spikes of the impalers ensuring the line and level of the panels are maintained.	675.00	sqm	5,900.00	3,982,500.00	Market Rate

2	Providing and Fixing of Channelled Wooden slats of width 128mm, thickness of 16mm and length 2440 mm or as required by the Architect/ approving engineer, made of a high density particle board substrate with a laminated / veneered facing as per the approved shade/ species & finish and a melamine balancing layer on the reverse side. The boards shall have a special perforation pattern where the visible surface has a perforation of 2mm width and 14mm of visible panel / 4mm width and 28mm visible paneleach. The panels shall provide a minimum sag resistance of RH90 and a fire rating class of 1 as per Part 7 of BS 476. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. The back of the perforated panel shall have sound absorbing non-woven acoustical fleece. The panels shall be mounted on aluminium splines using clips approved by the Architect/ Engineer-in-Charge.					
	INSTALLATION:					
	Install GI battens (provided by others) of section 50mmx50mm or as approved by the Architect on the solid wall horizontally using screws and plugs at spacing of 600mm centre-to-centre. Screw the aluminium extruded keel for channelled wooden slats over the lowest and second GI batten at an on-center distance of 600mm. Install the first set of wooden panels by inserting the clips for border channelled wooden slats and insert the groove of the panel into the projecting flange of the aluminium clip. Continue installing rows of panels by inserting the tongue into the groove of the earlier inserted panel and progressively installing clips for inside channelled wooden slats into the next keel till the actual height is achieved. Use clips for border channelled wooden slats to finish off the installation. Finish off the edges using wooden moulding of matching colour (provided by others).	350.00	sqm	4,950.00	1,732,500.00	Market Rate
	TOTAL ANNEXURE III (IN RS)				**5,715,000.00**	

IV	FLOORING				ANNEXURE IV	
SL. No.	**Description of Items**	**Quantity**	**Unit**	**Rate**	Amount (in Rs)	**Remarks**
1	Providing and laying Broadloom Carpets of Milliken or equivalent, Nylon 6.6,Infinity Tufted, Precision Multi-level Patterned Cut Pile, manufactured using Digital Injection Dyeing Process, width of min, 12' with protective treatment StainSmart (Stain Repel / Stain resist / Stain Release) , Anti Microbial Alphasan, Stiches/Rows 12.1/ inch, Guage 1/12 (50.4/10 cm),Tufts 145.2/ sq inch, Average Density of 5500 oz/cu. yd., Min. Pile thickness 6.8mm, Effective Face Weight of 32 oz/ sq. yds,flammability >= 0.45 (class1), Appearance Retention Rating (CRI 101) of Severe use.LEED Environmentally preferable ,CRI Green Label plus certificate 5Y, Green Label Plus for indoor air quality (CA 1350 or Equivalent), ANSI / NSF 140- 2007 Gold ranking, manufacturer to be independently certified Carbon Neutral Manufacturer and SMaRT (R) Certified,including fixing with Green Adhesive complete as per drawing and directions of Engineer-In-Charge.	590.00	sqm	2,850.00	1,681,500.00	Market Rate
2	Providing and fixing Phenolbonded Bamboowod flooring with planks of 14 mm thick complete as per specs for stage area	200.00	sqm	5,850.00	1,170,000.00	Market Rate
3	Providing and fixing Phenolbonded Bamboowod wall panelling with planks of 10 mm thick complete as per specs for stage area	100.00	sqm	4,950.00	495,000.00	Market Rate
	TOTAL ANNEXURE IV(IN RS)				**3,346,500.00**	

V	CHAIRS AND FURNITURE				ANNEXURE V	
SL. No.	**Description of Items**	**Quantity**	**Unit**	**Rate**	Amount (in Rs)	**Remarks**
	Supply and Installation of :					
1	Push back with Auto tip - up back & seat Compact seating with waterfall edge design • Aesthetic look with fully fabric covered ' Godrej or equivalent as per make list complete as per detailed specifications	450.00	Nos	13,500.00	6,075,000.00	Market Rate
2	Green Room Furniture ladies & Gents Consisting of Modular Tables 5'X2" Tables 8 Nos , PU Chairs with Arms 16 Nos and other Misc Furniture Items .	1.00	L/S	300,000.00	300,000.00	Market Rate
	TOTAL ANNEXURE V(IN RS)				**6,375,000.00**	

VI	AUDIO AND VIDEO PROJECTION SYSTEM				ANNEXURE VI	
SL. No.	Description of Items	Quantity	Unit	Rate	Amount (in Rs)	Remarks
	Supply,Installation,Testing and Commisioning of following works as per specifications					
1	Wireless Handheld Microphone AKG WMS 45HT Set	2	each	24,000.00	48000.00	Market Rate
2	Wireless Presenter Microphone AKG WMS 45PT Set	2	each	25,000.00	50000.00	Market Rate
3	Gooseneck Microphone AKG CGN521STS	2	each	35,000.00	70000.00	Market Rate
4	Dynamic Vocal Microphone AKG D 5S	4	each	8,500.00	34000.00	Market Rate
5	16Channel Mixer with Effects Sound craft FX16ii	1	each	85,000.00	85000.00	Market Rate
6	Control Room Monitor Speaker JBL C2PS	1	each	36,000.00	36000.00	Market Rate
7	Mounting Bracket for Control Room Speakers JBL MTC-2P	2	each	1,500.00	3000.00	Market Rate
8	Loud Speaker Management System Dbx Drive Rack 260	1	each	80,000.00	80000.00	Market Rate
9	Graphic Equalizer Dbx 231S	1	each	26,000.00	26000.00	Market Rate
10	12" Two Line Array Speakers JBL VRX 932LA-1	4	each	250,000.00	1000000.00	Market Rate
11	Amplifier for above speakers Crown XTi 6002	1	each	200,000.00	200000.00	Market Rate
12	18" Subwoofer Speaker JBL SRX 828S	2	each	255,000.00	510000.00	Market Rate
13	Amplifier for subwoofer speakers (Bridge Mode) Crown XTi 6002	1	each	255,000.00	255000.00	Market Rate
14	Mounting Arrangement & Array Frame for Line Array Speakers	2	each	65,000.00	130000.00	Market Rate
15	Balcony Speakers JBL Control 29AV	2	each	60,000.00	120000.00	Market Rate
16	Amplifier for above speakers Crown XLS 1502	1	each	60,000.00	60000.00	Market Rate
17	Green Room Speakers JBL Control 25-1	2	each	23,000.00	46000.00	Market Rate
18	Dual Channel Amplifier Crown XLi 800	1	each	42,000.00	42000.00	Market Rate
19	12" Two Way Stage Monitor Speakers LBL PRX 412M	2	each	82,000.00	164000.00	Market Rate
20	Amplifier for Stage Monitor Speakers Crown XLS 2502	1	each	76,000.00	76000.00	Market Rate
21	High quality 2 core / 1.5 sq. mm Loudspeaker cable (Chetan / Falcon)	600	metre	90.00	54000.00	Market Rate

22	High quality 2 core / 1.5 sq. mm Shielded Microphone cable (Chetan / Falcon)	500	metre	75.00	37500.00	Market Rate
23	XLR Male/Female, Chassis mount Microphone Connector, Speakon Connectors (Neutrik make) as per the site requirement	1	lot	30,000.00	30000.00	Market Rate

24	8 Channels Microphone Junction Box	2	each	2,500.00	5000.00	Market Rate
25	Equipment Rack	1	each	55,000.00	55000.00	Market Rate
26	Blu ray DVD/CD Player (Sony)	1	each	9,000.00	9000.00	Market Rate
27	Installation, testing, commissioning charges as per the site requirement	1	lumsum	500,000.00	500000.00	Market Rate
	VIDEO PROJECTION SYSTEM					
1	**LCD/DLP technology based Video Projection System: -** 7500 ANSI Lumens, Compatibility upto WUXGA(1920 x 1200) resolution, 2500:1 contrast ratio, 2500 Hrs. lamp life, Dual lamp module, +/- 30 degree Vertical keystone correction, Inputs / Outputs - Computer 1 in (D-sub 15pin) x 1, Computer 2 in (5BNC, R/G/B/H/V) x 1, Monitor out (D-sub 15pin) x 1, HDMI x 1 (1.4a), DVI-D in x 1, LAN (RJ45) x 1 (LAN Control), USB (Type Mini B) x 1, HDBaseT x 1 (Share with RJ45), Display Port x 1, 12V Trigger x 1, RS232 (DB-9pin) x 1, Wired Remote x 1, IR Receiver x 2 (Front + Rear) etc.	1	each	471,200.00	471200.00	Market Rate
2	Ultra Long throw Motorized Zoom Lens for above projectors	1	each	262,400.00	262400.00	Market Rate
3	**Pro scale Presentation Scaler/Switcher with Ethernet Control** 9-input scaler/switcher for analog video, digital video, balanced stereo and S/PDIF audio signals. It up or down-scales composite, s-Video (Y/C), component video (YUV), HDMI, computer graphics video and JPEG files to a selectable computer graphics video or HDTV output resolution on one HDMI and two 15-pin HD outputs. It includes a power amplifier to drive loudspeakers. The unit provides glitch-free switching between sources through FTB™ (fade-thru-black) switching technology. Projector Anywhere™ Technology - Horizontal & vertical geometry controls to compensate for off-axis projector placement.	1	each	292,000.00	292000.00	Market Rate
4	**HDMI / VGA Twisted pair Transmitter & Receiver: -** HDMI / VGA Twisted pair long distance transmitter for sending VGA / HDMI, audio, and bidirectional RS-232 and IR signals, Range up to 100 feets over a shielded CATx cable , Resolution up to 1920 x1200, 1080p/60 Deep Color, and 3D, HDMI/VGA Twisted pair and Receiver to convert the CAT signal to HDMI/VGA, audio, and bidirectional RS-232 and IR signal , Resolution up to 1920 x1200, 1080p/60 Deep Color, and 3D etc.	2	each	46,080.00	92160.00	Market Rate
5	Cable Manager (CableCubby) for Podium for connectivity of VGA, HDMI, Audio, Power, LAN etc.	1	each	25,600.00	25600.00	Market Rate

6	VGA Cable, HDMI Cable, CAT6 Cable, Power Cable, Patch Cables etc. as per the site requirement	**1**	each	12,800.00	12800.00	Market Rate
7	Installation, testing, commissioning charges as per the site requirement	1		100,000.00	100000.00	Market Rate
	TOTAL ANNEXURE VI(IN RS)				**4,981,660.00**	

VII	**INTERNAL ELECTRICAL WORKS**				**ANNEXURE VII**	
SL. No.	**Description of Items**	**Quantity**	**Unit**	**Rate**	Amount (in Rs)	**Remarks**
1	Providing Point wiring for Downlight & Footlights 3x1.5sqmm in PVC conduits with switches complete	140.00	Nos	1,300.00	182,000.00	Market Rate
2	Providing 20W LED fixed Downlight in false celing with fitting complete	84.00	Nos	4,800.00	403,200.00	Market Rate
3	Providing LED footlight with fitting complete	56.00	Nos	2,600.00	145,600.00	Market Rate
	TOTAL ANNEXURE VII(IN RS)				**730,800.00**	