

Name of Work: Development of Phase I Campus including Building for IIM Raipur at Naya Raipur SH: Furnishing and Stage Lighting works of Auditorium

SCHEDULE OF QUANTITY

Name of the Contractor/Firm							
S. code.	Description of Items	Quantity	Unit	Quoted rates are negative or positive	Rate in Figures in Rupees	Rate in words (in Rupees)	Amount (in Rupees)
1	STAGE FURNISHING						
1.1	Supply & Installation of MAIN CURTAIN made out of 100% velvet curtain cloth of 260 GSM with horizontal sliding arrangement complete with fixing rails, brackets, sliding arrangement , motorised operation etc. 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 of size as per drawing title stage lighting & furnishing drawing etc all complete as per direction of Engineer In Charge	1	Number	normal Item			0
1.2	Supply & Installation of CENTER CURTAIN made out of glazed cotton curtain cloth of 240 GSM with horizontal sliding arrangement complete with fixing rails, brackets, sliding arrangements motorised operation etc complete with runners, master runners, pullies, 3mm steel wire rope, 1HP motor (Crompton) 2nos. air breaker contactors (L&T/SIEMENS), 2 nos. micro switches for auto stop, 3nos. 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 of size as per drawing title stage lighting & furnishing drawing etc all complete as per direction of Engineer In Charge	1	Number	normal Item			0
1.3	Supply & Installation of REAR CURTAIN made out of glazed cotton cloth of 240 GSM with horizontal sliding arrangement complete with fixing rails, brackets, sliding arrangement and motorised operation etc 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 of size as per drawing etc all complete as per direction of Engineer In Charge	1	Number	normal Item			0
1.4	CYCLORAMA CUM SCREEN :- Providing and fixing cyclorama screen in plastic perforated material of perforations size 1.2mm (standard perforations) 0.5mm (micro perforations) perforations density 4.5% & weight 0.35kg/m2.. The screen to be fixed on tubular frame made out of 35mm dia MS pipe. The screen is to be fixed as per approved drawing. The cyclorama MS framework is to be provided with wheels/ castors for forward/ backward movement of size as per drawing title stage lighting & furnishing drawing etc all complete as per direction of Engineer In Charge	1	Number	normal Item			0
1.5	WINGS:- Providing and fixing cloth wings made out of black glazed cotton cloth of 240 GSM fixed on overhead pivote track of size as per drawing title stage lighting & furnishing drawing	6	Number	normal Item			0
1.6	FRILLS:- Providing and fixing average frills made out of double gathering glazed cotton cloth of 240 GSM to be installed above the stage on 28mm dia GI pipe of size as per drawing title stage lighting & furnishing drawing all complete as per direction of Engineer In Charge	4	Number	normal Item			0
1.7	Providing & Fixing 50mm dia B class GI Pipe/ 40 x 60 x 40 mm C Channel with the inverted ends to be hung from existing grid or roof structure including cutting, welding, fixing, accessories, bolting etc all complete for side wings, lighting bars, ladder etc. all complete as per direction of Engineer In Charge	400	KG	normal Item			0
1.8	Supply & Installation of Motorized Hoisting System for Lighting/ Set Scenery/ Frill Bar with pullies master pulley with 6mm wire rope for each pulley, 2 hp 3 phase motor (Crompton/ ABB/ Siemen) with the DC brake, 2 nos air breaker contactor Siemens or LT micro switch for auto stop Drum threaded mechanism, frame clamps nut bolt complete in all respects. all complete as per direction of Engineer In Charge	4	Number	normal Item			0

1.9	providing & fixing of M.S. Pipe Ladders to be provided on sides of the Stage to be fixed on the existing Structure or top grid. Made of 50mm x 25mmx3mm MS pipe to fix 3 nos. lights on each ladder including painting etc as required. all complete as per direction of Engineer In Charge	6	Number	normal Item		0
1.10	providing & fixing of GI "C" track / Strut of Size 40X60X40mm / 40 x 50 x40 mm, 2.5 mm thick forming a grid system for suspending light bars / Curtain Mechanism and other equipment for fulfilling all the lighting requirement forming Grid of 1.2 x 1.2 Mtr for Stage Lighting for suspension and fixing bars etc. complete with the spring type nuts and washers as required and size as per drawing in stage area etc all complete as per direction of Engineer In Charge	1	Number	normal Item		0
2	STAGE LIGHTS					
2.1	LED PROFILE 36* Supply & Installation of LED profile 200w 36* voltage0-90-250v/50-60hz,working position: Any safe working position ,lamp: super high power LEDs; white 180w (cool white or warm white) average life time is over 5000h,CRI:->90,Lens angle :19*/26*/36*,optinal, LED display channel-2 ch,IP rate :IP 20 indor, speacial zoom fuction with manual adjustment, control mode: master /slave synchronization,DMX 512 control and automatic ,run,construcation:die-casting aluminium housing silver white and black,optinal. all complete as per direction of Engineer In Charge	16	Number	normal Item		0
2.2	Supply,Installation, testing & commisioning of LED cob par LIGHT 200w 1 ld RGBW (Warm white optional) LED 4,6,7,9,3 DMX channel, End to end capability digital display,Angle 25* (optional 30*,45*)Dimmer 0-100% linerly Adustable strobe:-0-20F.P.S.,IP rating :-IP65,Control :-512,Ac Power: 90-260v Auto Sensing,power con in and oout,power consumption:220w ,DMX Data in/out 3 pin XLR. all complete as per direction of Engineer In Charge	20	Number	normal Item		0
2.3	Supply,Installation, testing & commisioning of Moving Head Sharpy Light 230w,POWER SUPPLIES 110-240V 50/60 Hz ,INPUT POWER,LAMP SOURCE Discharge lamp with a short arc burner in a reflector system - Type: YODA MSD Platinum 7R,- Output Lamp power: 230W- Colour temperature: 8,500 K,- Average life: 2,000 h OPTICS,3-lens optical group combination,Focus: electronic Light output at 20 meters (65 feet): 59,760 lux,COLOR SYSTEM Interchangeable color wheel with 14 colors + open EFFECTS SECTION,I nterchangeable gobo wheel with 17 fixed gobos + open,High speed shake effect,8-face rotating prism SHARPY 23,Frost filter,Mechanical shutter and adjustable speed strobe effect,Mechanical dimmer,CONTROL AND PROGRAMMING 16 DMX 512 control channels ,Display: LED RED Display Pan/Tilt Resolution: 16 bit,Movement control: vectorial DMX signal connection: 3 PIN output,BODY,Aluminium structure with die-cast plastic cover.Two side handles for transportation. Device locking PAN and TILT mechanisms for transportation and maintenance. MOVING BODY.Travel:- PAN = 540° - TILT = 50°ELECTRONICS, Function reset from the lighting desk ON/OFF lamp control from the lighting desk" AUTOTEST" function from menu Electronic monitoring with status error SAFETY DEVICES Bipolar circuit breaker with thermal protection. Automatic break in power supply in case of overheating or failed operation of cooling system. Forced ventilation with axial fans.Hanging system: with fast-lock omega clamps (1/4 turn) on the base. all complete as per direction of Engineer In Charge	2	Number	normal Item		0
2.4	Supply,Installation, testing & commisioning of LED spot light 150w Cobe LED current drive 5 Amp.colour temperture 3200k input voltage 100-240v A/c on board 4 digital display 2 ch DMX with DMX protocol,Aluminium hanging,cooling fan with P/c lens all complete as per direction of Engineer In Charge	6	Number	normal Item		0
2.5	LED Fresnel light: Supply,Installation, testing & commisioning of LED Fresnal light 150w Cobe LED current drive 5 Amp.colour temperture 3200k input voltage 100-240v A/c on board 4 digital display 2 ch DMX with DMX protocol,Aluminium hanging,cooling fan with Fresnal lens. all complete as per direction of Engineer In Charge	16	Number	normal Item		0
2.6	Supply,Installation, testing & commisioning of Blinder 4way Light sources :DWE 120v 650w x4,Power supply: Ac 220v-240v/50hz,DMX channel:-1 channel Dimmer. all complete as per direction of Engineer In Charge	8	Number	normal Item		0

2.7	Supply,Installation, testing & commissioning of LED Cob24 (4in1) Light 250w RGBW 10w Each x24 LED,80° reflector,Die-casting aluminium housing silver,white,black ect optional master slave synchronization,DMX 512 control,Auto run,0-100% liner dimmer,no noise,quite working whiout heating problem super even mixing colour with COM 4in 1 LEDs for cyclorama. all complete as per direction of Engineer In Charge	4	Number	normal Item			0
2.8	Supply,Installation, testing & commissioning of LED cyclorama light 4 in 1 L:ED wal washer,light source:-18PCS 12w Each LED,Lens angle 26*(30*,45*,60*) optional,channel mode : 3/4/6/7 9 DMX channel mode,0-100% liner dimmer,function: colour mix ,automatic colour change,built in program and strobe effect with adjustable speed.sound controlled via built in microphone,adjustable sound sensitivity,LED Display,easy to control, control: audo.sound active,DMX 512,software (connect to computer),coverheating protection, Voltage : 100-220v,50/60hz,power:-230, Ip rating :-IP 65. all complete as per direction of Engineer In Charge	6	Number	normal Item			0
2.9	Supply,Installation, testing & commissioning of Indoor LED par 54 LED Par 200w, voltage-110v-250v/50-60HZ,lamp-TX high power LEDs; 3w x54 LED,(R 14pcs; G14pcs; B14pcs; W12pcs) working position; any safe working position LED display, channel-4/5/7 CHS,Beam Angle- 15/25/45/600 ,IP Grad-IP20,control mode- master/slave synchronization,DMX-512 control and auto matic run function, construction- Aluminium and plastic body,silver,white and black optional. all complete as per direction of Engineer In Charge	32	Number	normal Item			0
2.10	8 Channel DMX Splitter: Supply,Installation, testing & commissioning, testing & commissioning of DMX SPLITTER WITH ONE INPUT AND SIX OUTPUTS WITH COMPLETE INTERNAL WIRING AND ALL OUTPUT ELECTRICALLY ISOLATED FROM INPUT . Splitter shall be suitable for one DMX universe and all connections shall be through 3/5 pin XLR connectors complete with electrical input wire etc all complete as per direction of Engineer In Charge	2	Number	normal Item			0
3	Dimmer and Controller						
3.1	Supply,Installation, testing & commissioning, testing & commissioning of Control panel with Internal Flash Drive, similar in functionality to a hard disk but faster and more rugged. Provides enough storage for:- The entire Fixture Library of more than 3,000 files, Over a hundred show files. Removable external Memory Stick. Cache the entire Fixture library of more than 3,000 files, Improved method of Fixture selection for Patching, New Locate Fixture button, Fixture Selects (selecting the top row of faders), 2048 Channels. 240 Intelligent Fixtures. 240 Dimmer Control Channels. Theatrical Plotting and Playback 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. Front panel now reverse printed Poly Carbonate Laminate using technology from the Diamond 4, this is incredibly hard wearing and looks excellent. Each console individually has an electronic serial number, linked to physically engraved metalwork numbering making reselling of stolen consoles more difficult. Supplied with PC applications: Avolites Visualiser, Pearl Simulation program and Cache builder etc all complete as per direction of Engineer In Charge	1	Number	normal Item			0
4	Wiring						
4.1	Supply,Installation, testing & commissioning, testing & commissioning of DMX Point Wiring complete with 2 core 23/0.2 Cu PVC sheathed sheilded cable having impedance not less than 100 ohm from splitter to light fixtures & between light fixtute to light fixture as required.	200	Meter	normal Item			0
4.2	Supply,Installation, testing & commissioning, testing & commissioning of Light Point Wiring from Dimmer / DB to individual fixtures including looped point with 3 core 2.5 sqmm PVC sheathed copper cable on cable tray / conduit pipe & complete with 6/16 amp power socket / IEC socket etc as required.	120	Number	normal Item			0
5	Acoustical False Ceiling						

5.1	PROVIDING & FIXING GYPSUM BOARD CEILING AND BULKHEAD, as marked in the drawings, consisting of GI perimeter channels of size 0.55mm thick (having one flange of 20mm and another flange of 30mm and a web of 27mm) along with perimeter of ceiling, screw fixed to brick wall/ partition with the help of nylon sleeves and screws, at 610mm c/c. Then suspending GI intermediate channels of size 45mm (0.9mm thick with 2 flanges of 15mm each) from the soffit at 1220mm c/c with ceiling angles of width 25mm x 10mm x 0.55mm thick fixed to soffit with GI cleats and steel expansion fasteners. Ceiling section of 0.55mm thickness having knurled web of 51.5mm and two flanges of 26mm each with lips of 10.5mm are then fixed to the intermediate channel with the help of connecting clips and in a direction perpendicular to the intermediate channel at 457mm c/c. 12.5mm tapered edge gypboard (confirming to IS: 2095-1996: Part-I) is then screw fixed to ceiling section with 25mm drywall screws at 230mm c/c. Screw fixing is done mechanically with drilling machine with suitable attachment. & all complete as per direction of Engineer In Charge	15	SQM	normal Item			0
5.2	PROVIDING & FIXING WOOD-VENEER FALSE CEILING: Providing and fixing veneer finish wooden false ceiling , as marked in the drawings. The suspension system comprises of aluminium hollow pipe section 50mmx50mmx3mm frames forming grid of 600mmx600mm.The suspended aluminium frame shall rest on aluminium angle 50mm X 75mm at perimeter fixed on the Brick masonry wall/RCC.The aluminium frame shall be hanged from the ceiling with suspender rod of 10mm dia threaded MS rod all complete & inclusive of cleats, bolts, washers, cutting, hoisting etc. all complete. The 12mm MR grade commercial ply to be fixed on aluminium Frame in the bottom with screws properly , and 4mm thick wooden colour approved veneer shall be fixed on commercial ply as per pattern shown in the detailed drawing.The veneer shall be duly finished with two or more coat of melamine polish to the satisfaction of Engineer-in-charge.	75	SQM	normal Item			0
6	Auditorium Flooring						
6.1	Providing & Fixing of Loop pile Carpet Flooring of approved color /shade/pattern made up of 100%pp with total height of 6mm. Pile weight not less than 650 gsm and total weight not less than 1750 gsm including pvc edge profile etc. The underlayer thermosheet (8mm) of supreme make or equivalent shall be laid with SR505 grade adhesive. The quoted rate shall be inclusive of surface preparation including making good the undulation in the base surfacemaking the surface in line and level, etc all complete as per direction of Engineer In Charge.	550	SQM	normal Item			0
6.2	PROVIDING & FIXING OF 25MM HDF SKIRTING of 100mm with laminate of approved color suede finish, flush in line with the fabric paneling. The top of the skirting to have a 12mm x 12mm groove, polished black and melamine for dust protection. (in running meter)	250	Meter	normal Item			0
6.3	providing & fixing of edge guard, anti slip step profile, corner guards etc (complete with their fixing details, screws, grips etc all inclISlve)	236	Meter	normal Item			0
7	STAGE FLOORING (Basework) Providing & Fixing 2"x3" second class teak wood gridwork base for stage floor, filled with fine river sand and covered with 12mm thick ISI marked BWR grade waterproof ply for auditorium stage flooring. Note: Rate is including labour, wood cost & base preparation as req and sand filling etc. etc. all complete as per direction of Engineer In Charge.						
7.1	Wood work in grid	2	Cum	normal Item			0
7.2	12mm thick Ply of BWR grade	265	SQM	normal Item			0
7.3	Sand filling	15	Cum	normal Item			0
8	Work in Stage Area						
8.1	Providing & Fixing PARTITION FOR PROSCENIUM side panels and proscenium top, using 50 x 50 x 3 mm MS tubular structure and 12mm thick ISI marked BWR grade ply topping on both sides, painted as per specifications. Finished on outer (audience) side in 1.5mm thick wood-grained laminates as per approval. etc. all complete as per direction of Engineer In Charge	36	SQM	normal Item			0
8.2	Wall Treatment: WOOD GRAINED SOUND SLATS PANELLING - Providing and Fixing of Channelled laminated sound slats of width 128mm, thickness of 16mm and length 2440 mm, made of a high density fibre board substrate with a laminated finish facing as per the approved shade & finish. The boards shall have a special perforation pattern where the visible surface has a perforation of 2mm width at pitch of 14mm of visible panel / 4mm width at pitch of 28mm visible panel each. The panels shall provide a minimum humidity resistance of RH70. The edges of the panels shall be "tongue-and-grooved" to receive special clips for installation. The panels shall be mounted on aluminium splines using clips. The back of the perforated panel shall have sound absorbing non-woven acoustical fleece. of 0.2mm for providing Sound absorption via the acoustic impedance method. The Panels are to be fixed on GI framework as recommended by the manufacturer with screw fixed horizontal / vertical to wall at every 600mm c/c with centre & edge bracket in tongue & groove system on GI framework. The end panel / edges to have wood beading in matching finish. The cavity of framework should be inserted with 50mm thick rock wool insulation of density 24kg/cum.	625	SQM	normal Item			0

9								
9.1	<p>PROVIDING & FIXING WOOD-GRAINED VENEERED REFLECTIVE PANELLING FOR SIDE AND REAR WALLS OF THE AUDITORIUM: providing & fixing of paneling on the side walls and rear walls of the auditorium as shown in the drawings, using:</p> <ul style="list-style-type: none"> • GI frame work of 48mm GI Studs, 0.55mm th. @ 610mm c/c . With an air-gap of 50mm from the wall surface. • The frame work to be filled with Rock wool of 50mm thick of 24 kg/m Cu. laminated with Black FRP Tissue on the outer side, and chicken wire mesh support on the rear side abutting the wall face • The panels to be finished with 12mm BWR grade commercial ply, and 4mm thick wooden veneer as per approval, finished in pattern as per detailed drawing, duly melamine polished. 	50	SQM	normal Item			0	
9.2	<p>PROVIDING & FIXING FIBRE ACOUSTICAL TILES PANELLING FOR SIDE WALLS OF THE AUDITORIUM: providing & fixing of acoustical Paneling on the walls of Auditorium area using:</p> <ul style="list-style-type: none"> • GI frame work at 610mm centers of 50mm x 50mm sectionS in 18 gauge fixed with MS angle cleats to wall by using metal fasteners, • Rock wool in fill 50mm thick of 24 kg/m Cu. Density with 50mm air-gap. <p>Providing and supplying Acoustical soft fiber Wall Panelling with square edges. Panels made of fiber glass substrate 25mm thick and wrapped on the front side with an acoustical fabric of approved color & shade. Colours as per approved of size 1200x600 or 600x600 mm providing a minimum sound absorption level of 0.85 NRC to be affixed to wall using impalers .</p> <p>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.</p>	95	SQM	normal Item			0	
9.3	<p>PROVIDING & FIXING ACOUSTICAL PANELLING ON THE WALLS OF STAGE AREA using:</p> <ul style="list-style-type: none"> • GI frame work at 610mm centers of 50mm x 50mm sectionS in 18 gauge fixed with MS angle cleats to wall by using metal fasteners, • rock wool in fill 50mm thick of 24 kg/m Cu. Density with no air-gap. <p>Finished in 12mm thick fully perforated gypsum tiles with self tapping screws.</p> <ul style="list-style-type: none"> • Finished in two coat of black plastic emulsion paint. 	240	SQM	normal Item			0	
Grand Total								0.00

codeTE:

1. If quoted rates is "normal Item" this amount will be paid to contractor/Firm by IIM RAIPUR. IF quoted rates is "Minus Item" this amount will be
2. If any cells (Rates) left Blank, then the same will be treated as "Zero".



