



**NATIONAL INSTITUTE OF MENTAL HEALTH AND NEUROSCIENCES
(INSTITUTE OF NATIONAL IMPORTANCE) BANGALORE-560 029
ENGINEERING DEPARTMENT Phone (080) 26995215**

Ref.No.NIMH/ENG/EE/857/2021- 22

Dt:11/08/2021

QUOTATION NOTIFICATION

Sealed Quotations are invited from the reputed agencies/Contractor for the “**For unit rates for preparation of estimate purpose only for the following items in NIMHANS Campus**” addressed to the Executive Engineer, National Institute of Mental Health and Neurosciences, Post Box.No.2900, Hosur Road, Bangalore-29, so as to reach the quotation to undersigned by 03.00 p.m on or before 18/08/2021. Quotations will be opened on the same day at 03.30 p.m. Please furnish your quotation in a sealed cover and rate to be quoted in figures and words. (Excluding GST).

SL No.	Description	Unit	Qty
1	Supply and fixing of Suspender cum clamps designed made out of MS material 150mm x 150mm x 5mm MS Base plate Threaded rod, Black powder coated finish. All the materials under gone through 7 tank process with various chemical treatments to keep them rust free Suitable to hold various type grid & other rigging systems. etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make:Leksa Lighting /Markrich/Aultra Lighting	Each	01
2	Supply and fixing of C Profile MS Hot rolled strips 3mm thick with Extra U bend used either to create basic supports Customized 40 x 50mm, All the materials under gone through 7 tank process with various chemical treatment to keep them rust free Makes easier to suspend all the stage machinery Duly powder coated Matt black texture finish paint etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting	Each	01

3	Supply and fixing of Motor Control Panel with DMX & Manual selectable Motor control panel, cum remote control 1 Way providing power input for motors internally neatly wired with contactors having individual motor control with required Push button, Emergency trip, RYB indicators, Supply Indicator and necessary meters operated wireless smart working functionailty for the motorised lightbars should be there with one neutral & phase connection slots and with 2 vertual load terminals. For each motor unit one each switch units should be installed inside the control panels which can be controlled with our mobiles, touch pads only with the internet connection. Motor control panel duly powder coated with ash grey paint texture finish with all required safety features etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Seimens / Leksa Lighting / Markrich	Each	01
4	Supply and fixing of Cable Connecting Circuit Boxes for the termination of cables from Electrical panel to the grid level point made out of MS Sheet metal fabricated housing duly powder coated with matt black texture finish paint, fitted with required channels and ivery connectors, necessary glands etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting /Seimens / Aultra Lighting	Each	01
5	Supply and fixing of FRLS Copper unarmoured Flexible cable IS694 having 7 Core each of 1.5 Sq mm size etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Polycab /Walna / SBEE	Each	01
6	Supply and fixing of FRLS Copper unarmoured Flexible cable IS694 having 4 Core each of 4 Sq mm size etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Polycab / Walna/ SBEE	Each	01
7	Supply and fixing of High quality Velvet fabric fire retardant treated as per approved colour and make with a gathering of 100% stitched as per site condition, curtain provided with eyelets at every 200/250mm for uniform fixing on to curtain trollies (For Main Curtain) Size:16Mtr x 4.5Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Om Phile / Nexgen / Comrade	Each	01

8	Supply and fixing of Glazed Cotton fabric fire retardant treated as per approved colour and make with a gathering of 50% stitched as per site condition, curtain provided with eyelets at every 200/250mm for uniform fixing on to curtain trollies (For Rear Curtain) Size: 16Mtr x 4.5Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Om Phile / Nexgen / Comrade	Each	01
9	Supply and fixing of Glazed Cotton fabric fire retardant treated as per approved colour and make with a gathering of 50% stitched as per site condition, curtain provided with eyelets at every 200/250mm for uniform fixing on to curtain trollies (For Frills) Size: 13Mtr x 1Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Om Phile / Nexgen / Comrade	Each	01
10	Supply and fixing of High quality Velvet fabric fire retardant treated as per approved colour and make with a gathering of 100% stitched as per site condition, curtain provided with eyelets at every 200/250mm for uniform fixing on to curtain trollies (For Main Valance) Size: 16Mtr x 1.2Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Om Phile / Nexgen / Comrade	Each	01
11	Supply and fixing of Glazed Cotton fabric fire retardant treated as per approved colour and make with a gathering of 0% stitched as per site condition, curtain provided with eyelets at every 200/250mm for uniform fixing. (For Wing) 4.5Mtr x 1.5Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Om Phile / Nexgen / Comrade	Each	01
12	Supply and fixing of on Stage Fixed Frill Bar 13 Mtrs Length Straight as per the design made out of 40NB 48 OD Mild steel pipe dual barrel, supported to hang the frill, connected with MS Flat duly powder coated with matt black texture finish paint. All the materials under gone through 7 tank process with various chemical treatment to keep them rust free etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Aultra Lighting/Leksa Lighting / Markrich	Each	01

13	Supply and fixing of on Stage Fixed Valance Bar 16 Mtrs Length Straight as per the design made out of 40NB 48 OD Mild steel pipe dual barrel, supported to hang the Main Valance of the stage system duly powder coated with matt black texture finish paint. All the materials under gone through 7 tank process with various chemical treatment to keep them rust free etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Aultra Lighting/ Leksa Lighting / Markrich	Each	01
14	Supply and fixing of Fixed Wing Structure designed as per site condition for a height approx 4.5Mtr x 1.5Mtr made up of MS Square tube of 25mm or higher size rested on pivotable trolley on a track for the rotation of the wing. Adjustable floor locking screw jacks with rubber grips. Inverted 4-Wheeler Trolley with Flexi Adaptor Clamp and 360° Rotatable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Aultra Lighting / Leksa Lighting / Markrich--+	Each	01
15	Supply and fixing of Motorized DMX operated Main Curtain 16 Mtrs straight, Centre partting as per design. This mechanisam shall be provided with 01 Nos. of 1.5 HP, 1440 RPM, 90 B5 frame, 3Ph. 415VAC Motor with Brake for Motor System to lift a load which should be synchronized with Motor Control centre Panel. Winch shall have 3 phase motor with an RPM of 1440,KW (HP) : 1.1(1.5), Frame : 90S, EFF:75.0%, MTG : B5, AMP : 2.7Y, Volt:415v, DE BRG : 62052Z, DUTY:S1, FREQ:50Hz, NDE BRG:62052Z, IP:55, AMB:50 degree. The outer surface temperature is limited.It shall have a Worm Reduction Gearbox with GMRV-90 80:1, 90B5, Single Reduction 7.5:1 to 100:1 and the size shall be 90. It shall have an drive unit base frame to fix the gear box which contains one shaft Made up of I Track for complete length Curtain holding trollies with ball bearing for smoother noiseless movement consisting of 4 wheeler master trolley and 2 wheeler trolley placed uniformly at specific interval of 200mm /250 mm throughout the track Overlap of 0.5~0.9 Mtrs. Motor Cable termination box Trollies uniformly distributed along the track at every 200/250mm with a master trolley. Open and close limit controller. Drive unit with suitable capacity of motor unit, Wire Rope shall be of GI Wire ropes Min 3mm Dai Undergone through various chemical treatment to keep them rust free, Black texture finish paint. All metal parts are powder coated etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01

16	<p>Supply and fixing of SITC of Motorized DMX operated Rear Curtain 13 Mtrs straight, Centre parting as per design. This mechanism shall be provided with 01 Nos. of 1.5 HP, 1440 RPM, 90 B5 frame, 3Ph. 415VAC Motor with Brake for Motor System to lift a load which should be synchronized with Motor Control centre Panel. Winch shall have 3 phase motor with an RPM of 1440,KW (HP) : 1.1(1.5), Frame : 90S, EFF:75.0%, MTG : B5, AMP :2.7Y, Volt:415v, DE BRG : 62052Z, DUTY:S1, FREQ:50Hz, NDE BRG:62052Z, IP:55, AMB:50 degree.The outer surface temperature is limited.It shall have an Worm Reduction Gearbox with GMRV-90 80:1, 90B5, Single Reduction 7.5:1 to 100:1 and the size shall be 90. It shall have an drive unit base frame to fix the gear box which contains one shaft Made up of I Track for complete length Curtain holding trollies with ball bearing for smoother noiseless movement consisting of 4 wheeler master trolley and 2 wheeler trolley placed uniformly at specific interval of 200mm /250 mm throughout the track Overlap of 0.5~0.9 Mtrs. Motor Cable termination box Trollies uniformly distributed along the track at every 200/250mm with a master trolley. Open and close limit controller. Drive unit with suitable capacity of motor unit, Wire Rope shall be of GI Wire ropes Min 3mm Dai Undergone through various chemical treatment to keep them rust free, Black texture finish paint. All metal parts are powder coated etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,</p>	Each	01
17	<p>Supply and fixing of Cyclorama Arrangement made up of Aluminium I Track System duly powder coated along with two wheeler trollies placed at a uniform distance of 200mm to 250mm, tie down railing, leading edge frame and tying cotton rope to ensure drum tight fixing. A PVC Perforated screen with unity gain factor semi grey or half white colour with a size of 8 Mtrs x 4.5 Mtrs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,</p>	Each	01

18	<p>Supply and fixing of 100W High Quality LED Parcan Light complete with, Lamp source 3200K CCT Colour temperature CRI & TLCI Values above 95 COB LED source from Citizen/ Philips/ Osram/ Cree or reputed make (LM80 to be provided) DmX 512 dimming with 3 channel control Beam Angle of 9° / 25° / 45° Total Power Consumption of 165W High quality output replacing 1000W Halogen Par Flicker Free 100% for Tv & Film Cameras 11.7KHz Refresh Rate, Linear Dimming 0 ~ 100% Fuse and Internal safety protections Strobe option Adjustable 1~25 times/Sec Variable Fixture provided with Yoke of Manual Adjustment 5 Pin XLR for DmX Black powder coated body. RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2-13:2014 Brand embossed impact on the light body for genuine product etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01
19	<p>Supply and fixing of 200W LED Profile Spot 19 Degree Light complete with, 3200K CCT Colour Temperature COB LED source from Citizen/ Philips/ Osram/ Cree or reputed make (LM80 to be provided) CRI & TLCI above 95 Strobe option Adjustable 1 ~ 25 times / Sec 4 Kinds of dimming curves, Black finish housing Manual Focus with 4 Beam shaping cutters Efficient and well-designed Lamp reflector Efficient Copper tube based Heat Sink for Heat Dissipation Sleek and Unique Designed Light weight body Fixture provided with Yoke of Manual Adjustment DmX 512 dimming with 1 or 3 Channel modes IP20 protection having Lux @ 3 Mtrs above 12040 suitable to illuminate the key presenter or talent on stage. RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2-13:2014 Brand embossed impact on the light body for genuine product etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01

20	<p>Supply and fixing of 200W LED Profile Spot 36 Degree Light complete with, 3200K CCT Colour Temperature COB LED source from Citizen/ Philips/ Osram/ Cree or reputed make (LM80 to be provided) CRI & TLCI above 95 Strobe option Adjustable 1 ~ 25 times / Sec 4 Kinds of dimming curves, Black finish housing Manual Focus with 4 Beam shaping cutters Efficient and well-designed Lamp reflector Efficient Copper tube based Heat Sink for Heat Dissipation Sleek and Unique Designed Light weight body Fixture provided with Yoke of Manual Adjustment DmX 512 dimming with 1 or 3 Channel modes IP20 protection having Lux @ 3 Mtrs above 12040 suitable to illuminate the key presenter or talent on stage. RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2-13:2014 Brand embossed impact on the light body for genuine product etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01
21	<p>Supply and fixing of 400W LED Blinder Light 30 Degree complete with 3200K CCT 4x100W Chip On Board LED Lamp source COB LED source from Citizen/ Philips/ Osram/ Cree or reputed make (LM80 to be provided) DmX 512 dimming with 4 /8 Channel modes CRI & TLCI Value > 90 Strobe option Adjustable 1 ~ 25 times / Sec Variable Beam Angle 30 Degree Total Power Consumption of 420W 11.7KHz Refresh Rate. In built preset's for effects Fuse and Internal safety protections Active Cooling with Low Noise Fan 5 Pin XLR for DmX High quality well designed inbuilt reflector Flicker Free 100% for Tv & Film Cameras Black finish housing, IP20 protection Having Strobe option and smooth dimming illuminate Stage with uniform light intensity levels.RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2-13:2014 etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01

22	<p>Supply and fixing of 100W LED Fresnel Light having COB LED source from Citizen/ Philips/ Osram/ Cree or reputed make (LM80 to be provided) 3200K colour temperature High quality uniquely designed Fresnel Lens CRI,TLCI and R9 value above 96 LED COB Based Source No Multiple Shadows – Single Source illumination Total Power Consumption of 210W Linear dimming 0 ~ 100% Adjustment Flicker Free for High FPS, Power AC90-260V, 50/60HZ Working Temperature - +40° ~ -30°Active Cooling with Low Noise Fan DmX & RDM Control options with latest technology Fixture provided with Yoke of Manual Adjustment Manual and DMX control Option mode through 5pin/3pin xlr Black powder coated fabricated housing with normal yoke.RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2-13:2014 Brand embossed impact on the light body for genuine product . etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01
23	<p>Supply and fixing of 54 x 3W LED Par Light RGBW, Beam Angle 25° complete with LED source from Lumiled / Seoul / Nichia or reputed make (LM80 to be provided) RGBW 3W Lamp source x 54 Pcs DmX 512 dimming with 8 Channel High Bright Red, Green, Blue, White LED's Source Unlimited Color Mixing through DmX 0 ~ 100% Linear dimming In built presets for different colors Strobe Mode 20 times/Sec Data DmX through 5 Pin XLR's65dB ~ 130dB Sound sensing capacity Power In and Out Connections High precision colors, IP20 protection Powder coated Black finish housing Having Sound Control & Master Slave Auto Run Mode Illuminate the Indoor stage with unlimited colour effects Rigidly built pressure die-casted Aluminium body.RDM Control options with latest technology (RDM ID to be specified) Certification having BIS compliant to IS 10322 (Part 5/ Sec 1):2012 CE Certification compliant to EN60598-1:2015, EN61437-2- 13:2014 Brand embossed impact on the light body for genuine product etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01
24	<p>Supply and fixing of Light fixture mouting clamp Customized for suspending on fixed bars on stage Made up of Aluminium Die casted MS threaded T bolt with yellow passivation finish Complete with black powder coating matt black finish. Safe working load 150 KG Suitable to Batten of size 30 OD to 60 OD etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01

25	Supply of Light Fixture dual safety Chain made up of GI wire rope Bundled and twisted together Having load bearing capacity above 200 Kgs Sleeve on the rope. Carabiner Clip etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting	Each	01
26	Supply and fixing of Suspender cum clamps designed made out of MS material 150mm x 150mm x 5mm MS Base plate Threaded rod, Black powder coated finish All the materials under gone through 7 tank process with various chemical treatment to keep them rust free Suitable to hold various type grid & other rigging systems etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting	Each	01
27	Supply and fixing of Fixed on stage Lighting bar/winch of 12Mtr length constructed with an dual construction light bar with an Mild Steel 40NB 48 OD black matt finish with an supporting flat patti of height 200mm x 50mm x 6mm thickness for the extra support with 2 holes of 10mm diameter to fix the cable tray on the bar.It shall be hanged from the roof to accommodate various type of stage light fittings. It should hang from the roof with MS angle which is suspended from the fish plate of 5mm thickness which is fixed on the rcc roof with 4 anchor fastners of 10mm which can take an total load of 400KG each fastner. Made out of 48mm Outer Dia, 40 Nominal Bore Material for the light bar shall be of Mild Steel Pipe. Dual Barrel Arrangement Powder coated with Matt black Texture Fixing Through Suspenders as per site conditions Dual Construction and an additional End Caps on the Pipe end shall be there Light bar Length shall be of customized type as per site condition. Upper pipe of dual construction is used to anchor the bar lower pipe is effectively used to hang the light fixtures etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01

28	<p>Supply and fixing of Fixed FOH Lighting bar/winch of 13Mtr length constructed with an dual construction light bar with an Mild Steel 40NB 48 OD black matt finish with an supporting flat patti of height 200mm x 50mm x 6mm thickness for the extra support with 2 holes of 10mm diameter to fix the cable tray on the bar.It shall be hanged from the roof to accommodate various type of stage light fittings. It should hang from the roof with MS angle which is suspended from the fish plate of 5mm thickness which is fixed on the rcc roof with 4 anchor fastners of 10mm which can take an total load of 400KG each fastner. Made out of 48mm Outer Dai, 40 Nominal Bore Material for the light bar shall be of Mild Steel Pipe. Dual Barrel Arrangement Powder coated with Matt black Texture Fixing Through Suspenders as per site conditions Dual Construction and an additional End Caps on the Pipe end shall be there Light bar Length shall be of customized type as per site condition. Upper pipe of dual construction is used to anchor the bar slower pipe is effectively used to hang the light fixtures etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,</p>	Each	01
29	<p>Supply and fixing of Power Distribution Electrical panel having a Individual MCB control for 22 outgoing circuits Made up of MS Sheet metal fabricated housing Black powder coated Ivery connectors for the internal terminations and external outgoing connecting points, Fibre / brass glands of suitable size fitted MCB control for outgoing circuits.Custom built as per specification and project requirement etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Seimens / Leksa Lighting / L&T</p>	Each	01
30	<p>Supply and fixing of High quality power junction box 4 ways made up of MS Sheet metal fabricated housing. Snap fit fixing /15 (1.5mm) Total Max Rating 10A, 250V A.C 20°C to +70°C Operating Temp Moldings: Nylon, Flammability Rating UL94V-0 Black powder coated, fibre glands of suitable size fitted with owercon or IEC connector Box 10A. Clamp arrangement for fixing or Raul plug arrangement for wall / floor fixing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting</p>	Each	01

31	Supply and fixing of High quality power junction box 2 way made up of MS Sheet metal fabricated housing. Snap fit fixing /15 (1.5mm) Total Max Rating 10A, 250V A.C 20°C to +70°C Operating Temp Moldings: Nylon, Flammability Rating UL94V-0 Black powder coated, fibre glands of suitable size fitted with owercon or IEC connector Box 10A. Clamp arrangement for fixing or Raul plug arrangement for wall/floor fixing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Markrich / Aultra Lighting	Each	01
32	Supply and fixing of High quality Dimming In junction box 1 way made up of MS Sheet metal fabricated housing High temperature resistant insulator material All metal housing offers best overall RF protection & electromagnetic shielding Black powder coated, fibre glands of suitable size fitted with 5 Pin DmX XLR Male socket Clamp arrangement for fixing or Raul plug arrangement for wall /floor fixing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Nuetrick / Aultra Lighting	Each	01
33	Supply and fixing of High quality Dimming Out junction box 1 way made up of MS Sheet metal fabricated housing High temperature resistant insulator material All metal housing offers best overall RF protection & electromagnetic shielding Black powder coated, fibre glands of suitable size fitted with 5 Pin DmX XLR Female socket Clamp arrangement for fixing or Raul plug arrangement for wall /floor fixing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Nuetrick / Aultra Lighting	Each	01
34	Supply and fixing of DmX Loop Junction Box having 1 No. of DmX 5 Pin XLR Female Socket & 1 No. DmX XLR Male Socket fitted on to a sheet metal fabricated compact Junction box powder coated with matt black texture finish paint.High temperature resistant insulator material All metal housing offers best overall RF protection & electromagnetic shielding. Clamp arrangement for fixing or Raul plug arrangement for wall /floor fixing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Leksa Lighting / Nuetrick / Aultra Lighting	Each	01
35	Supply and fixing of Internal Earthing System with copper bare conductors all along the cable trays, metal parts and Installation Hardwares etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01

36	Supply and fixing of Black Powder coated cable trays made out of MS Sheet fabricated for a size of 40 x 75 x 40mm & 1.6 mm thickness undergone through 7 tank process with various chemical treatment to keep them rust free with perforation for heat dissipation provided with lid etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Custom	Mtrs	01
37	Supply and fixing of DmX Male Female Connectors 5 Pin having rubber sheath protection for Cross connecting DmX wiring connections. etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Nuetrick / LL / Aultra Lighting	Each	01
38	Supply and fixing of DmX Male Termination Connector 5 Pin soldered with required capacity of resistor for signal deframing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Nuetrick / LL / Aultra Lighting	Each	01
39	Supply and fixing of DmX Controller consists of 24 Physical Faders to control atleast 96 channels 4 Individual page control switches Master control fader Black out mode Scene saving option upto 96 memories LCD display Smooth movement faders Easy access key pads DmX 512 protocol, 5 Pin XLR Output Optional chase & multifunction keys Sequence mode select etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Lite Puter/ Leksa Lighting/ Avolite	Each	01
40	Supply and fixing of SITC of Opto isolated RDM enabled DmX splitter unit provided with, 8 Isolated outputs Slow blow safety fuse 5 Pin XLR for output interface Dual mode to select 2 universe operation DmX Input through 5 Pin XLR Connector Control Protocol RDM and DMX 512 Powder coated compartment finish Mounting brackets for grid mount etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Lite Puter/ Leksa Lighting/ Elation	Each	01
41	Supply and fixing of FRLS Copper unarmoured Flexible cable IS694 having 3 Core each of 1.5 Sq mm size etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Polycab / Walna / SBEE	Mtrs	01
42	Supplying and fixing of 5 Core DmX Cable with Sheathed housing on the cable, well designed insulation, low noise suitable to transmit DmX signal etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Falcon / Belden / Guru Astronics	Mtrs	01

43	Supply and fixing of 1DLP laser projector with 6,750 lumens, WUXGA 1920 x 1200 Resolution along with ultrashort throw lens Control via RS232, - Control via Ethernet (10/100) RJ45 & IR remote, +/- 100% V , +/- 30% H Motorizes lens shift, Diagonal Image range between 50 to 300 Inches 16:10 Aspect Ratio etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make; Christie	Each	01
44	Supply and fixing of Bracket for Mounting Projector from Ceiling with all necessary accessories etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Custom	Each	01
45	Supply and fixing of 43 inch Display for stage monitor etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Philips	Each	01
46	Supply and fixing of Stage Monitor Display Bracket with all necessary accessories etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make ; Custom	Each	01
47	Supply and fixing of 65 inch Displays Extended Video Reinforcement Displays etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Philips	Each	01
48	Supply and fixing of Bracket for Mounting Extended Displays with all necessary accessories etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make ; Custom	Each	01
49	Supply and fixing of 20X Optical Zoom Camera with Video Output 1080p : 60 / 59.94 / 50 / 30 / 29.97 / 25, HDMI Out & Paning angle of -170° ~ +170°, POE, Ethernet control via Joystick or Laptop / PC along with Mounting Accessories etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Lumens	Each	01
50	Supply and fixing of IP based Joystick Controller for Lumens Camera etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Lumens	Each	01
51	Supply and fixing of 4K HDR 4:4:4 60H HDBaseT extender set with POH along with Bidirection IR & RS 232. 4K 70 Mtr, 1080P 100Mtr etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	05

52	Supply and fixing of Rackmountable IP control Gateway for IR, RS232 & IP Control with sensors & relay control controlled along with software & controlled via PC / iPad or Android Tablet etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
53	Supply and fixing of 3-Input In-wall HDBaseT Transmitter (2 HDMI, USB-C) with USB host & CEC trigger, 4k transmission up to 100Mtr along with Automatic or manual switching of Inputs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
54	Supply and fixing of 4K HDR 4:4:4 60Hz HDBaseT2.0 Receiver with USB Device Inputs, Ethernet & PoH etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
55	Supply and fixing of 4K HDR 4:4:4 60Hz HDMI 6x6 Matrix Switcher with Audio Outputs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
56	Supply and fixing of 5 Mtr HDMI Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
57	Supply and fixing of 2 Mtr HDMI Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
58	Supply and fixing of 1 Mtr HDMI Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
59	Supply and fixing of 0.5 Mtr HDMI Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Wyrestorm	Each	01
60	Supply and fixing of 8 U rack with Rack Plates, Rack Fans for cooling, Power Distribution Box, Glass door, Rotatable & lockable wheels, etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : GA-8U	Each	01
61	Supply and fixing of Live switcher with 4 standards converted HDMI inputs, USB webcam out, audio mixer with EQ and dynamics etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Blackmagic	Each	01

62	Supply and fixing of 4 Port Switch with Accesspoint etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : D-Link	Each	01
63	Supply and fixing of 10-Port Managed POE Switch etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Cisco	Each	01
64	Supply and fixing of HDMI to HDMI, Audio, HDMI devender etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
65	Supply and fixing of iPad for controlling etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Apple	Each	01
66	Supply and fixing of Power Conditioner etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Furman 10A PC	Each	01
67	Supply and fixing of Loudspeakers with Drivers 1 x 15" / 1 x 1.4 HF, Frequency range 55 - 18000 Hz, Power capacity programm / peak: 800 / 1600 W , Impedance 8 Ohm , Coverage range (h x v) 75° x 45° HF-horn, rotatable;Sensitivity 1 W / 1 m -- 98 dB, SPLmax / 1 m / peak 130 dB etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : TWAUDIO	Each	01
68	Supply and fixing of Loudspeakers with Drivers 1 x 8" LF / 1 x 1" HF, Frequency range -66- 20000 Hz, Power capacity programm / peak: 400 / 800 W , Impedance-8 Ohm Coverage range (h x v) 90° x 60° HF-horn, rotatable, Sensitivity 1 W / 1 m - 95 dB ;SPLmax / 1 m / peak -124 dB etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : TW Audio	Each	01
69	Supply and fixing of Digital amplifier with integrated DSP and Dante™ functionality, max. power: 4x 1600W / 8 ohms, 4x 3000W / 4 ohms, 4x 5200W / 2 ohms, with ethernet connection and integrated Wifi interface for control via tablet, 19" / 1RU / 495mm depth, 15.5 kg with DSP and DANTE etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Powersoft	Each	01

70	Supply, erecting, testing & commissioning of Inverter type UPS system suitable for operation on 440/230V, 50Hz, A/C supply, with isolation transformer all accessories complete and 12 volts DC SMF batteries and stand, DC cables wiring complete. For 60 minutes back. 3 phase input and single phase out etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Sets	04
71	Supply and fixing and Installation of Microcellular Closed Cell Nitirle rubber Insulation foam Class "O" with Alu foil, Temperature range -200°C to +160°C Thermal Conductivity As per EN12667, with Zero Ozone Depletion Potential. UL-94 & FM GLOBAL Approved etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Sq.mtr	01
72	Supply and fixing of supporting charges for installing air conditioning ducts for the height of 5.6mtrs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Sq.mtr	01
73	Supply and fixing of releasing the 2x2500 litres solar hot water system and refixing to another building etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Sets	01
74	Supply and laying Union flexible copper wire etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,		
	a) 4.0sq.mm	Mtrs	01
	b) 6.0sq.mm	Mtrs	01
	c) 16.sq.mm	Mtrs	01
75	Supply and fixing of POP UP electrical box with all accessories etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
76	Supply and fixing of DCN-DDI Dual Deligate interference for flush mounted custom solutions etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Bose	Each	01
77	Supply and fixing of DCN-MICL Pluggable Long Microphone length 480 mm (18.9 inch), silver Order number etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make: Bose	Each	01
78	Supply and fixing of DCN-FMICB Flush Microphone Control Panel flush mounted, silver. etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01

79	Supply and fixing of DCN-FMIC Flush Microphone Connection Panelflush mounted, silver etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
80	Supply and fixing of DCN-FPRIOB Flush Priority Panelflush mounted, silver etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make ; Bosch	Each	01
81	Supply and fixing of DCN-DDI Dual Delegate Interfacefor flush mounted custom solutions etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
82	Supply and fixing of DCN-CCUB2 Central Control Unit BasicDCN Next Generation basic central control unit forcontrolling delegate microphones etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
83	Supply and fixing of DCN-FLSP Flush Loudspeaker Panelflush mounted, silver etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
84	Supply and fixing of DCN Extension Cable 20m.20 m (66.0 feet), terminated with connectors, etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch Make : Bosch	Each	01
85	Supply and fixing of DCN Extension Cable 15m. 15 m (49.2 feet), terminated with connectors etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
86	Supplying and fixing of DCN Extension Cable 5m.5 m (16.0 feet), terminated with connectors etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
87	Supply and fixing of DCN Extension Cable 2m.2 m (6.6 feet), terminated with connectors etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
88	Supply and fixing of DCN-FCOUP Flush Coupling (50 pcs) for flush mounted units, set of 50 etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01

89	Supply and fixing of DCN-FEC Flush End Cap (50 pcs) flush mounted, silver, set of 50 pcs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc., Make : Bosch	Each	01
90	Supply and fixing of Sound Craft Mixer Frame sizes 6+2, 8+2 and 12+2 2 configurable auxiliary buses XLR-type and ¼" metal jack connector sockets RCA phono stereo playback inputs and record outputs 3-band EQ with a swept mid on mono inputs 2-band EQ on stereo inputs TRS insert sockets and inserts on all mono inputs and mix output Ten-segment LED output metering Intuitive and comprehensive solo system Headphone output Easily rack mountable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
91	Supply and fixing of Bosch EV HD-A is robust handled UHF wireless system, suitable for any application where the convenience of a handled transmitter wireless handled microphones etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
92	Supply and fixing of AKG Wireless Head Woven Microphone. AKG is your best choice for any application calling for a solution that is more flexible than a simple plug-and-play system yet easy to set up and operate. Half 19" all metal case diversity receiver, Automatic frequency setup function for quick and easy operation. 8 hours battery life and battery status information in hours. Compatible with antenna splitters, power supplies, and high quality directional and omni-directional antennas. Programmable warning functions using a two-color display backlighting to indicate critical operation conditions (low battery, audio peak, RF low) etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
93	Supply and fixing of Bosch 6w Metal ceiling loudspeaker suitable for speech and music etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
94	Supply and fixing of Bosch mixer amplifier, 240W mixing amplifier in a 3U high 19" housing. EN 54-16 certified and EN 60849 compliant. Dual inputs with priority switching. 100 V input for slave operation on 100 V speaker line. 70 V / 100 V and 8 ohm outputs etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01

95	Supply and fixing of EVID 4.2 is perfect for a variety of environments where full-range audio is needed in a limited space: restaurants, bars, bistros, department stores, and outdoor venues. The 4.2 offers the bass response of a much larger speaker, and dual, 4" woofers make the 4.2 a phenomenal performer. etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
96	Supply and fixing of Faceplate HDMI.VGA.AUDIO for Laptop connectivity etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
97	Supply and fixing of 2 Core 1.5 Sqmm PVC Insulated, Cross Laid Up, Overall Aluminium Mylar Tape Shielded along with ATC Drain Wire FRLS Outer Sheath Shielded Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Mtrs	01
98	Supply and fixing of 2 core 0.5 SQ MM X 2 Core shielded cable have Flexible Bare Copper Conductor, PVC Insulated, Cross Laid Up, Overall Aluminium Mylar Tape Shielded along with ATC Drain Wire FRLS Outer Sheath Shielded Cable etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Mtrs	01
99	Supply and fixing of 25mm PVC capping and casing etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
100	Supply and fixing of DI box for Audio laptop connectivity etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
101	Supply and fixing of 17U Free standing equipments rack etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
102	Providing sophisticated earthing for sound system etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01

103	Supply and fixing manageable internet switches connecting to 40 to 50 out let nodes along with patch panel with output connections etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Each	01
104	Supplying, erecting, testing and commissioning of UPS input power supply for 4 nos of 20 KVA and output power distribution by using, MCCBs, MCBS, copper bus bar, Indication lamps, earthing strips enclosed by 14 swg Mild steel fabrication box etc., complete as per direction of the Engineer in-charge of work including cost of all materials, labour charges, loading, unloading, lead lift, transportation charges etc.,	Set	01

Sd/-
Executive Engineer
NIMHANS, Bangalore