



NATIONAL HIGH SPEED RAIL CORPORATION LIMITED (NHSRCL)
 (A Joint Sector Company of Govt. of India and Participating State Government)
 2nd Floor, Asia Bhawan, Road No.205, Sector-9, Dwarka, New Delhi-110077, India

Addendum No. 02
 Date: 14.09.2023

Name of Work: Complete Interior Fit out works including Flooring, Wall and Ceiling finishes, Partitioning, Civil, Furniture, Furnishing, Electrical, HVAC, MEP, Fire Fighting, IT and Audio-Visual Works of NHSRCL office space at WTC Nauroji Nagar,

Tender Number: NHSRCL/CO/LA/WTC/2022/2 / Published Date: 11.08.2023

Item No.	Refer Para No.	Original/Existing	Revised
1	Vol-1/NIT Page no 4 Clause 1.1.2 Key details:	Tender Security (in original) as per clause C18 of ITT shall be accepted only up to 12.09.2023 (latest by 1700 Hrs in the office of GM/Procurement at the address mentioned hereinafter.	Tender Security (in original) as per clause C18 of ITT shall be accepted only up to 25.09.2023 (latest by 1500 Hrs in the office of GM/Procurement at the address mentioned hereinafter.
2	Vol-1/ITT F1.1	Subject to paragraph F2, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive and compliant to the requirements contained in the Tender Documents as per paragraph E4 and Tenderer with the highest composite score shall be considered for the award of the work as per paragraph E5.5	Subject to paragraph F2, the Employer will award the Contract to the Tenderer whose Tender has been determined to be substantially responsive and compliant to the requirements contained in the Tender Documents as per paragraph E4 and who has offered the Lowest Evaluated Tender Price as per paragraph E5.5
3	BOQ - Schedule A,B,C,D	Header name of Schedule A: Schedule A-NDSR Item Schedule B: Schedule D-NDSR Item Schedule C: Schedule B-DSR 2021(Civil) Schedule D: Schedule C-DSR 2022(E&M)	Header name of Schedule A: Schedule A-NDSR-1 Items Schedule B: Schedule B-NDSR-2 Items Schedule C: Schedule C-DSR 2021 (Civil) Schedule D: Schedule D-DSR 2022 (E&M)
4	Volume- 3, TOR, Para 6 Warranty/Guarantee period for Specialized Items page no. 20 - 21	Warranty/Guarantee period for Specialized Items: For specialized works such as Lighting System (Luminaires and its components, LMS including Software & Hardware and its components, Façade Lighting and its control etc.), LV Items (CCTV, Displays, Audio Visual System, Access Control System, Active Network Components, IPPBX Exchange, IBS etc), the guarantee period shall be for a minimum period of 05 years, in which: The contractor shall be fully responsible for and shall guarantee proper performance for a period of 01 one years/ Manufacturer's guarantee period from the commissioning of equipment/completion date of building, whichever is later. For this, a specific 01 years written guarantee by the Contractor (to be furnished in a non-judicial stamp paper of value not less than Rs.100/-) and shall be submitted before final payment for the performance of the system and shall not in any way limit any other rights the Employer may have under the contract. Apart from this, along with completion of items, the Contractor shall furnish the Warranty/Guarantee Certificate from the OEMs in the name of NHSRCL, clearly specifying the period of Guarantee for 01 (one Years) along with Description of item and its quantity and shall also furnish the OEM certificate for supplying maintenance spares, associated parts and any other support required for the period or equipment life as specified by OEM, whichever is longer (after warranty/guarantee period of 1 years)	Warranty/Guarantee period for Specialized Items: For specialized works such as Lighting System (Luminaires and its components, LMS including Software & Hardware and its components, Façade Lighting and its control etc.), LV Items (CCTV, Displays, Audio Visual System, Access Control System (VMS), Active Network Components, IPPBX Exchange, IBS, etc), the guarantee-warranty period shall be for a minimum period of 05 years (five) , in which: The contractor shall be fully responsible for and shall guarantee proper performance for a period of 01 one years/ Manufacturer's guarantee warranty period from the commissioning of equipment/completion date of building, whichever is later. For this, a specific 01 years written guarantee warranty by the Contractor (to be furnished in a non-judicial stamp paper of value not less than Rs.100/-) and shall be submitted before final payment for the performance of the system and shall not in any way limit any other rights the Employer may have under the contract. Apart from this, along with completion of items, the Contractor shall furnish the Warranty/Guarantee Certificate from the OEMs in the name of NHSRCL, clearly specifying the period of Guarantee warranty for 05(five year) or as specified whichever is higher along with Description of item and its quantity and shall also furnish the OEM certificate for supplying maintenance spares, associated parts and any other support required for the period or equipment life as specified by OEM, whichever is longer (after warranty/guarantee period of 05 (five) years)
5	BOQ Preamble Sr. No. 6	The rates and prices to be tendered for various Schedules are for completed works and complete in all respect.	The rates and prices to be tendered for various Schedules are for completed works and complete in all respect. "Base Rate" has been indicated against the certain BOQ items. The basic market prevailing unit cost of any material to be procured to execute any BOQ item, wherever specified, is referred as the "Base Rate". It excludes any associated charges like transport, wastage, handling, GST, any other taxes/duties/cess and Contactor's overheads & profit etc. Contactor's is required to furnish necessary documentation, as per requirement of Engineer, to establish the "Base Rate" for Engineer's approval before execution of the respective BOQ item.
6	Volume- 3, TOR Page 7 Para c	Electrical Works: All Electrical works beyond tap off point (inside electrical rooms at each floor provided by NBCC). The works shall include Low Voltage Electrical Distribution system including Electrical panels, distribution boards, panel flooding system, cable containment system, cables, wiring, LED lighting and lighting control, power outlets and electrical fittings, UPS, earthing, temperature sensor, RH sensor, air quality sensors, pressure sensors, BMS hardware and BMS software etc.	Electrical Works: All Electrical works beyond tap off point (inside electrical rooms at each floor provided by NBCC). The works shall include Low Voltage Electrical Distribution system including Electrical panels, distribution boards, panel flooding system , cable containment system, cables, wiring, LED lighting and lighting control, power outlets and electrical fittings, UPS, earthing, temperature sensor, RH sensor, air quality sensors, pressure sensors, BMS hardware and BMS software etc.
7	BOQ, Schedule A-NDSR-1 Items Description BOQ item, General Lighting Item No 1.05	Supply of 4ft LED Linear recess mounted Luminaire with width<65mm. The Luminaire shall be made of White powder coated finish extruded aluminium housing and PMMA diffuser. The nominal system lumen output of 2000 lumens and a minimum system efficacy of 100 lm/W. The luminaire should have a color temperature of 4000K/ 5700K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF > 0.95. operating Voltage Range of 150 - 270V. Luminaire should comply with IS 10322 part 5/Sec 1 2012 for general purpose lighting. Ingress Protection Should be Min IP20. Minimum Internal Surge Protection 2KV. The luminaire shall be with following certifications: LM79-NABL & LM80 issued by LED manufacturer along with Photo Biological Safety Standard.	Supply of 4ft LED Linear recess mounted Luminaire with width<65mm. The Luminaire shall be made of White powder coated finish extruded aluminium housing and PMMA diffuser. The nominal system lumen output of 2000 lumens and a minimum system efficacy of 100 lm/W. The luminaire should have a color temperature of 4000K/ 5700K and CRI>80. The luminaire shall meet IP20 rating with THD<10% and PF > 0.95. operating Voltage Range of 150 - 270V. Luminaire should comply with IS 10322 part 5/Sec 1 2012 for general purpose lighting. Ingress Protection Should be Min IP20. Minimum Internal Surge Protection 2KV. The luminaire shall be with following certifications: LM79-NABL & LM80 issued by LED manufacturer along with Photo Biological Safety Standard. Wattage :- 20 watt
8	BOQ, Schedule A-NDSR-1 Items 9.00 Electrical Item No 1.13	Installation, testing & commissioning (ITC) of light fixtures & sensors of all types, complete with all accessories, including connection with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. Note : Supply shall be part as per Architecture Lighting Boq.	Installation, testing & commissioning (ITC) of light fixtures & sensors of all types, complete with all accessories, including connection with 1.5 sq. mm. FRLS PVC insulated, copper conductor, single core cable and earthing etc. as required. Note : Supply shall be part of as per Architecture Lighting BOQ 1) Supply of lighting fixtures and accessories (like flexible strip wire driver, magnetic track driver, magnetic track, suspension wire, magnetic track end, middle & angular all jointer etc), shall be part of Lighting BOQ. 2) ITC of lighting fixture is included in this BOQ Item. 3) ITC of accessories is included the ITC of lighting fixtures itself.
9	BOQ, Schedule A-NDSR-1 Items 9.00 Electrical Item No 2.7.7	b. Busbar : 80A, TPN, Aluminum, 10kA min.	b. Busbar : 80A, TPN, Aluminum Copper, 10kA min.
10	BOQ, Schedule A-NDSR-1 Items 9.00 Electrical Item No 3.1	2) All necessary coordination with the Electrical system, Precision AC System & BMS for complete integration.	2) All necessary coordination with the Electrical system, Precision-AC System & BMS for complete integration.
11	BOQ, Schedule A-NDSR-1 Items 9.00 Electrical Item No 5.1.9 & 5.1.10	3,4 X 6 sq. mm 3 X 2.5 sq. mm	3,4 X 6 sq. mm 3C X 6 sq.mm Cu or 4C X 6 Sq.mm Cu 3 X 2.5 sq.mm Cu
12	BOQ, Schedule A-NDSR-1 Items 9.00 Electrical Item No 7.11.1.1 to 7.11.1.5	200A 4P Thermal Magnetic MCCB with multifunction meter & indication lamps. 100A 4P/TPN Thermal Magnetic MCCB with multifunction meter & indication lamps. 63A 4P/TPN MCCB with multifunction meter & indication lamps. 40A 4P/TPN MCCB with multifunction meter & indication lamps. 400A 4P MCCB with multifunction meter & indication lamps.	200A 4P Thermal Magnetic 25KA MCCB with multifunction meter & indication lamps. 100A 4P/TPN Thermal Magnetic 25KA MCCB with multifunction meter & indication lamps. 63A 4P/TPN Thermal Magnetic 25KA MCCB with multifunction meter & indication lamps. 40A 4P/TPN Thermal Magnetic 25KA MCCB with multifunction meter & indication lamps. 400A 4P Microprocessor based 25KA MCCB with multifunction meter & indication lamps.
13	Vol-3/TS-EL page no. 34-35	APPROVED MAKE LIST FOR ELECTRICAL WORKS 1 Panels - Tricolite Neptune Adlec Advance 2 Switchgears (MCCB) Schneider L&T ABB Siemens 26 General Lights - Wipro / Philips / Crompton / Panasonic / Halomax / Halonix 27 Special Lights :- Focus / Hybec / Halomax / Halonix	APPROVED MAKE LIST FOR ELECTRICAL WORKS 1 Panels - Tricolite / Neptune / Adlec / Advance Panels & Switchgear 2 Switchgears (MCCB) - Schneider / L&T TERA / ABB / Siemens 26 General Lights - Wipro / Philips / Crompton / Panasonic / Halomax / Halonix / Hybec 27 Special Lights :- Focus / Delta / Halomax 30 Driver for Special Lights - Osram / Meanwell / Fulham 31 LED Chip for Special lights - Cree / Nichia / Lumiled
14	Drawing Title HVAC LAYOUT FIFTH FLOOR Drawing No 012-NHS-230017-D-ME-A1-1005-01	HVAC LAYOUT FIFTH FLOOR	Please refer the attached revised drawing 012-NHS-230017-D-ME-A1-1005-01 (R1) As Per Annexure-2
15	Drawing Title HVAC LAYOUT SIXTH FLOOR Drawing No 012-NHS-230017-D-ME-A1-1006-02	HVAC LAYOUT SIXTH FLOOR	Please refer the attached revised drawing 012-NHS-230017-D-ME-A1-1006-02 (R1) As Per Annexure-2
16	Drawing Title HVAC LAYOUT SEVENTH FLOOR Drawing No 012-NHS-230017-D-ME-A1-1007-03	HVAC LAYOUT SEVENTH FLOOR	Please refer the attached revised drawing 012-NHS-230017-D-ME-A1-1007-03 (R1) As Per Annexure-2
17	Drawing Title HVAC TYPICAL STANDARD DETAIL Drawing No 012-NHS-230017-D-ME-A2-0201-04	HVAC TYPICAL STANDARD DETAIL	Please refer the attached revised drawing 012-NHS-230017-D-ME-A2-0201-04 (R1) As Per Annexure-2



18	Drawing Title ELECTRICAL & ELV TYPICAL STANDARD DETAIL Drawing No 012-NHS-230017-D-EL-A2-0201-05	ELECTRICAL & ELV TYPICAL STANDARD DETAIL	Please refer the attached revised drawing 012-NHS-230017-D-EL-A2-0201-05 A (R1) As Per Annexure-2
19	Drawing Title ELECTRICAL & ELV TYPICAL STANDARD DETAIL Drawing No 012-NHS-230017-D-EL-A2-0201-05	ELECTRICAL & ELV TYPICAL STANDARD DETAIL	Please refer the attached revised drawing 012-NHS-230017-D-EL-A2-0201-05 B (R1) As Per Annexure-2
20	Drawing Title HVAC LAYOUT TERRACE FLOOR Drawing No 012-NHS-230017-D-ME-A1-10 TR -04	HVAC LAYOUT TERRACE FLOOR	Please refer the attached revised drawing 012-NHS-230017-D-ME-A1-10 TR -04 (R1) As Per Annexure-2
21	Schedule A-NDSR-1 Items DUCTING WORK, Item No. 3.1.1	Fabrication, supply, installation, testing & commissioning of powder coated G.I. Oval Factory fabricated & painted/ powder coating Ducting as per SMACNA standards of following duct gauges complete with splitter dampers, turning vanes, wire rope supports etc.as per drawings and specifications. Cost including all low side accessories for oval duct as per drawings and specifications. The scope includes Supply & fixing of Thermal insulation for duct using 13 mm thick class " O " (FM approved & in accordance to UL 94(HB, VO, 1996) Aluminium foil faced Closed cell nitrile rubber based elastomeric insulation with the density of 40 - 55 kg/m³. It should not absorb more than 0.2% water by volume, should not support microbial growth, should not emit objectionable odors and thermal conductivity K value should not exceed 0.033W/m.k @ 0deg C as per DIN EN 12667 and water vapor permeance of 0.10. Joints should be sealed with 50 mm wide 3 mm thick self adhesive insulation tape (Black Cotton Tape not acceptable). Adhesive shall be used additionally with VOC level not exceeding 50 grms / Liter.	Fabrication, supply, installation, testing & commissioning of powder coated G.I. Oval Factory fabricated & painted/ powder coating Ducting as per SMACNA standards of following duct gauges complete with splitter dampers, turning vanes, wire-rope supports etc.as per drawings and specifications. Cost including all low side accessories for oval duct as per drawings and specifications. The scope includes Supply & fixing of Thermal insulation for duct using 13 mm thick class " O " (FM approved & in accordance to UL 94(HB, VO, 1996) Aluminium foil faced Closed cell nitrile rubber based elastomeric insulation with the density of 40 - 55 kg/m³. It should not absorb more than 0.2% water by volume, should not support microbial growth, should not emit objectionable odors and thermal conductivity K value should not exceed 0.033W/m.k @ 0deg C as per DIN EN 12667 and water vapor permeance of 0.10. Joints should be sealed with 50 mm wide 3 mm thick self adhesive insulation tape (Black Cotton Tape not acceptable). Adhesive shall be used additionally with VOC level not exceeding 50 grms / Litre.
22	Vol-3/TS-HVAC page no 66-67 APPROVED MAKE LIST FOR HVAC WORKS	8 Chilled water Cassette units/ Fan coil units -Daikin / York/ Trane/ Carrier 32 Split AC - Daikin/ Hitachi / Mitsubishi heavy industries 38 VRF System & Refnet joints- Daikin / Mitsubishi Electric / Toshiba / Carrier / Trane / York	8 Chilled water Cassette units/ Fan coil units - Daikin / York/ Trane 32 Split AC - Daikin/ Mitsubishi heavy industries/ Mitsubishi Electric / O General 38 VRF System & Refnet joints - Daikin / Mitsubishi Electric / Mitsubishi heavy industries / O General
23	Vol-3/TS-AV Page no 45 List of Approved Makes for Audio Vido Equipment	1 Active LED Display wall Plannar/Barco/samsung 2 Professional Large Format Display Panasonic/Samsung/NEC 4 Podium AHA/Globus/UE 5 Video Conference Camera/Document Camera Lumens/Globus/Polycorn 6 Microphones Sennheiser/Bosch/Globus 7 Digital Signal processor Bose/Symetrix/Globus 8 Amplifier Bose/Symetrix/Globus 9 7.1 Channel with Pre amplified outputs surround sound system Marantz, Yamaha, Harman Kardon 10 Speakers and subwoofer QSC, JBL, Martin Audio 11 Speakers system for normal cabins JBL	1 Active LED Display wall Plannar/Barco/Samsung/ Globus/ OscarsPro /UE 2 Professional Large Format Display Panasonic/Samsung/NEC/ Globus/ OscarsPro /UE 4 Podium - AHA/Globus/UE/ OscarsPro 5 Video Conference Camera/Document Camera - Lumens/Globus/Polycorn/ OscarsPro /UE 6 Microphones - Sennheiser/Bosch/Globus/ OscarsPro 7 Digital Signal processor - Bose/Symetrix/Globus/ OscarsPro 8 Amplifier, Speakers & subwoofer - Bose/Symetrix/Globus/ OscarsPro QSC, JBL, Martin Audio 9 7.1 Channel with Pre amplified outputs surround sound system - Marantz, Yamaha, Harman Kardon, OscarsPro 10 Speakers and subwoofer QSC, JBL, Martin Audio 11 Speakers system for normal cabins - JBL/ OscarsPro /UE
24	Vol-3/TS-AV Page no 06	Pixel Pitch 1.8 mm or better Contrast Ratio 10000:1 or more Viewing Angle (minimum) H: 160 degree; V:120 degree Viewing Distance ≥ 1.8 mm or better Pixel Density 262144 pixels / m² or better Certification BIS certification required	Pixel Pitch 1.8 mm or better 1.50 mm or better Contrast Ratio (Static) 10000:1 or more 6000:1 or more Viewing Angle (minimum) H: 160 degree; V:120 degree H: 150 degree; V:150 degree Viewing Distance ≥ 1.8 mm or better ≥1.50 m or better Pixel Density 262144 pixels / m² or better 440000 pixels / m² or better Certification BIS, CE, FCC & UL certification required
25	Vol-3/TS-AV Page no 06	LED Wall Controller Input 1x Audio,1x DM or better Output 2x LED Outputs over Ethernet or better	LED Wall Controller (of same make as of LED wall) Input 1x Audio,1x DM or better DP 1.2a x 1, HDMI 2.0x2, USB x 2 or better Output 2x LED Outputs over Ethernet or better 4HDBT output, Audio out (SPDIF)x1 or better
26	Vol-3/TS-ELV page no 32		<New para added after para 6.3> Please refer Annexure-1 for Technical Specification for para 6.4 to 6.15 under Voices & wifi System. (Annexure-1 is attached with Addendum-2)
27	Vol-3/TS-CI Page no 23-24	APPROVED MAKE LIST 14 INTERIOR GLASS PARTITION - ALKOM/ALUKE /ALUDOR/BAUX/UNIDOR/ LIKOS 40 CARPET - SHAW /WELSPUN/INTERFACE/CCIL	APPROVED MAKE LIST CIVIL & INTERIOR 14 INTERIOR GLASS PARTITION - ALUK /ALUDOR/ UNIDOR / TOSTEM 40 CARPET - SHAW / WELSPUN / INTERFACE
28	Schedule A-NDSR-1 Items Item no.3.03	Veneer Panelling (factory fabricated) Providing and fixing of Veneered wall Panelling on existing frame work mentioned in partition item with 16mm thick BWR Ply as base and 4mm thick veneer as the finishing layer, panels sizes shall be tailored to fit the designated wall specifications, within a standard range of dimensions and custom size Veneer panels complete with all edges having veneer turned on it etc. The same shall be turned 75mm on sides on the end or as per requirement. The surface will be PU- Matte finished polish along with grooves or profile to be insert as per detail. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specification or as directed by Engineer-in-charge.	Veneer Panelling (factory fabricated) Providing and fixing of Veneered wall Panelling on existing frame work mentioned in partition item with 16mm thick BWR Ply as base and 4mm thick veneer as the finishing layer, panels sizes shall be tailored to fit the designated wall specifications, within a standard range of dimensions and custom size Veneer panels complete with all edges having veneer turned on it etc. The same shall be turned 75mm on sides on the end or as per requirement. The surface will be PU- Matte finished polish along with grooves or profile to be insert as per detail. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specification or as directed by Engineer- in-charge. Base rate of Rs 1800 per sq mtr for Veneer
29	Schedule A-NDSR-1 Items Item no.3.05	SANDWHICH GLASS PANELLING :- Providing and fixing of 8mm thick (one side designer and other side plain toughened) Sandwich glass panelling with framework of aluminium profile in 20x20mm in powder coated finish with back ply of 9 mm thick on which designer glass can be fixed using in combination of double tape with primer applied to ply and mirror silicon sealants with necessary SS Studs arrangements with adhering manufacture specifications. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specifications, schedules or as directed by Engineer-in-charge.	SANDWHICH GLASS PANELLING :- Providing and fixing of 8mm thick (one side designer and other side plain toughened) Sandwich glass panelling with framework of aluminium profile in 20x20mm in powder coated finish with back ply of 9 mm thick on which designer glass can be fixed using in combination of double tape with primer applied to ply and mirror silicon sealants with necessary SS Studs arrangements with adhering manufacture specifications. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specifications, schedules or as directed by Engineer- in-charge. Base rate of Rs 4000 per sq mtr for Sandwich glass
30	Schedule A-NDSR-1 Items Item no.3.06	LEATHER PANELLING :- Providing & fixing of Leather panelling including all materials, labour, hardware and equipment for Leather wall Paneling on one side over solid substrate with, foam cushioning and finish stitching detail and Greengard certified using commercial MDF as base for maximum acoustic performance of STC rating. Commercial leather panels sizes shall be tailored to fit the designated wall specifications, within a standard range of dimensions and custom size leather panels. Perimeter stitching to complying with technical specifications. Typical panel/ panels length may vary due to actual field dimensions as panels are to be of equal sizes. The cost Shall include all hardware, labour material, Stitching etc & work should be completed as per specification schedules or as directed by Engineer- in-charge.	LEATHER PANELLING :- Providing & fixing of Leather panelling including all materials, labour, hardware and equipment for Leather wall Paneling on one side over solid substrate with, foam cushioning and finish stitching detail and Greengard certified using commercial MDF as base for maximum acoustic performance of STC rating. Commercial leather panels sizes shall be tailored to fit the designated wall specifications, within a standard range of dimensions and custom size leather panels. Perimeter stitching to complying with technical specifications. Typical panel/ panels length may vary due to actual field dimensions as panels are to be of equal sizes. The cost Shall include all hardware, labour material, Stitching etc & work should be completed as per specification schedules or as directed by Engineer- in-charge. Base rate of rs 4600 per sq mtr. for Leather
31	Schedule A-NDSR-1 Items Item no.3.02	Providing & Fixing in place MDF as per design/ drawings over existing framework mentioned in partition item fixed with dry wall screw @ 300mm c/c with staggered joints to avoid through joints. The board shall be jointed in plain lining with necessary screws/ nuts & bolts/ nails, including a coat of approved primer on one face, complete as per details, specification or as directed by Engineer -in-charge. Anti-termite Treatment needs to be done before cladding on both side of the ply board. Note :- anti termite treat needs to done before cladding	Providing & Fixing in place MDF as per design/ drawings over existing framework mentioned in partition item fixed with dry wall screw @ 300mm c/c with staggered joints to avoid through joints. The board shall be jointed in plain lining with necessary screws/ nuts & bolts/ nails, including a coat of approved primer on one face, complete as per details, specification or as directed by Engineer -in-charge. Anti-termite Treatment needs to be done before cladding on both side of the ply board. Note :- anti termite treat needs to done before cladding The thickness of MDF For base Ply Work will be 18 mm Thick
32	Schedule A-NDSR-1 Items Item no.3.14	Tile Cladding with Adhesive Providing, Handling, shifting, cutting and cladding of tile as per selection on wall with 4 mm Grout in pattern or paper joint as per design clad over dry wall partition with suitable Adhesive to fix the tile. The tile sample to be approved for workmanship and quality acceptance. The Tiles and joints to be protected by masking tape prior to grouting, i/c necessary pigmentation to match with the colour of Tile. The cost shall include labour, adhesive, cutting, cleaning etc., including all other necessary related works as per specifications and schedule and directed by Engineer In-charge.	Tile Cladding with Adhesive Providing, Handling, shifting, cutting and cladding of tile as per selection on wall with 4 mm Grout in pattern or paper joint as per design clad over dry wall partition with suitable Adhesive to fix the tile. The tile sample to be approved for workmanship and quality acceptance. The Tiles and joints to be protected by masking tape prior to grouting, i/c necessary pigmentation to match with the colour of Tile. The cost shall include labour, adhesive, cutting, cleaning etc., including all other necessary related works as per specifications and schedule and directed by Engineer In-charge. Base rate of Rs 300 per sq mtr for Tile Cladding.
33	Schedule A-NDSR-1 Items Item no.4.14	Veneered Ceiling: Providing and fixing Veneered Ceiling comprising of necessary Aluminium frame work backing size 50x25mm, 2mm thick 600mm C/C. with 16mm thick BWR Ply as base and 4mm thick veneered ply as the finishing layer, complete with all edges having suitable lipping's/ veneer etc.. The same shall be turned 75mm on sides. The surface will be PU- Matte finished polish along with grooves as per detail. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, diffusers etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specifications, schedules as per drawing or as directed by Engineer- In-Charge.	Veneered Ceiling: Providing and fixing Veneered Ceiling comprising of necessary Aluminium frame work backing size 50x25mm, 2mm thick 600mm C/C. with 16mm thick BWR Ply as base and 4mm thick veneered ply as the finishing layer, complete with all edges having suitable lipping's/ veneer etc.. The same shall be turned 75mm on sides. The surface will be PU- Matte finished polish along with grooves as per detail. Provision for cove/ surface lights will have to be kept & Rate to include making necessary cut-outs/ openings for light fittings, diffusers etc. All components to be of approved makes & all spacings should match their recommendation, standards as per specifications, schedules as per drawing or as directed by Engineer- In-Charge. Base rate of Rs 1800 per sq mtr for Veneer



34	Schedule A-NDSR-1 Items Item no.7.01	Working Under Counter in Pantry - Providing and fixing Working Counter made in BWP plywood with with 1mm thick Laminate Finish on shutter & all around on visible surface & Leather texture laminate to be used in Inside all the drawers along with granite stone counter top of 20 mm thickness & Cabinet as per selection along with shutters & drawers including all necessary hardware such as soft drawer close channels and hinges & fittings as per client requirements with finishing inside balancing laminate and complete as per specification, schedule as per detail drawing or directed by Engineer In-charge. Following Hardware Includes :- 1. Glass Basket 2. Plate Tray 3. Cutlary organiser 4. GTPT Over Sink 5. Dustbin Refer Drawing of pantry area.	Working Under Counter in Pantry - Providing and fixing Working Counter made in BWP plywood with with 1mm thick Laminate Finish on shutter & all around on visible surface & Leather texture laminate to be used in Inside all the drawers along with granite stone counter top of 20 mm thickness & Cabinet as per selection along with shutters & drawers including all necessary hardware such as soft drawer close channels and hinges & fittings as per client requirements with finishing inside balancing laminate and complete as per specification, schedule as per detail drawing or directed by Engineer In-charge. Following Hardware Includes :- 1. Glass Basket 2. Plate Tray 3. Cutlary organiser 4. GTPT Over Sink 5. Dustbin Refer Drawing of pantry area. Base rate of Rs 2000 per sq mtr for Granite.
35	Schedule A-NDSR-1 Items Section 8.00, Sr no. 1.01	Sliding and folding Acoustic partition up to false ceiling level :- Supplying, fixing and installing operable partition of consisting of series of individual flat elements of 85 mm thick travelling along the ceiling track assembled to form a solid wall. The sound insulation of the operable partition should be 50db. Elements must be constructed of a torsion-free steel horizontal tube frame and torsion-stiff vertical aluminium profiles, bolted together to make the element strong and sturdy. The frame must be clad either side with 16mm MDF panels hung in acoustic free suspension from the panel frame. The elements must be inter-connected by means of a positive locking concave/convex aluminium profile with an integrated magnetic strip and sealing lip having a linear attraction of 40N/m. Each element must have a spindle mechanism which should be connected to the spring loaded top and bottom retractable seal. The spindle mechanism should be operated manually by a bayonet connected crank handle that acts as a lock in function during cranking process. The horizontal top and bottom seals must be extended manually by crank handle and should ensure a contact pressure of 800N when the seals are completely extended. The seal spindle mechanism must be accessible while the panel is hanging for servicing and adjustment if necessary. Total disassembly of the panel frame to access internal components is not acceptable. No fixed sweep seals allowed in top and bottom of the element that would rub against the track or floor while moving the element. The telescopic element or the end closure element must open and close 120mm horizontally. The movement of the telescopic panel and the operation of the horizontal top and bottom seal and must be operated by a single mechanism. Each element must be suspended from the track capable of withstanding the load of the element. The elements shall run with the help of steel clad, multi directional rollers on a 100mm thick aluminum extruded track capable of taking a weight of 500 kgs/ element. Panel should be stacked in side stacking position. After installation of tracks, a sound barrier should be erected between the RCC and the false ceiling consisting of 1 gypsum board of 12.5mm thick each with mineral wool filling in between having a density of 24kgs/ cubic meter and fitted to a G.I. sheet framework.	Sliding and folding Acoustic partition up to false ceiling level :- Supplying, fixing and installing operable partition of consisting of series of individual flat elements of 85 mm thick travelling along the ceiling track assembled to form a solid wall. The sound insulation of the operable partition should be 50db. Elements must be constructed of a torsion-free steel horizontal tube frame and torsion-stiff vertical aluminium profiles, bolted together to make the element strong and sturdy. The frame must be clad either side with 16mm MDF panels hung in acoustic free suspension from the panel frame. The elements must be inter-connected by means of a positive locking concave/convex aluminium profile with an integrated magnetic strip and sealing lip having a linear attraction of 40N/m. Each element must have a spindle mechanism which should be connected to the spring loaded top and bottom retractable seal. The spindle mechanism should be operated manually by a bayonet connected crank handle that acts as a lock in function during cranking process. The horizontal top and bottom seals must be extended manually by crank handle and should ensure a contact pressure of 800N when the seals are completely extended. The seal spindle mechanism must be accessible while the panel is hanging for servicing and adjustment if necessary. Total disassembly of the panel frame to access internal components is not acceptable. No fixed sweep seals allowed in top and bottom of the element that would rub against the track or floor while moving the element. The telescopic element or the end closure element must open and close 120mm horizontally. The movement of the telescopic panel and the operation of the horizontal top and bottom seal and must be operated by a single mechanism. Each element must be suspended from the track capable of withstanding the load of the element. The elements shall run with the help of steel clad, multi directional rollers on a 100mm thick aluminum extruded track capable of taking a weight of 500 kgs/ element. Panel should be stacked in side stacking position. After installation of tracks, a sound barrier should be erected between the RCC and the false ceiling consisting of 1 gypsum board of 12.5mm thick each with mineral wool filling in between having a density of 24kgs/ cubic meter and fitted to a G.I. sheet framework. Makes for Sliding Folding Partition :- Dorma Kaba/ Gaze/ Hettich
36	Schedule A-NDSR-1 Items Item no.1.3 (a), (b), ©	CORE CUTTING :- Drilling with core cutting machine in Post RCC beams, slabs, floors etc. if not mentioned in the drawing but required by Engineer In-charge for laying pipes and rendering the same in RCC 1:2:4, finishing the same to the satisfaction of the Engineer In-charge, including nominal reinforcement wherever required, complete. The quoted rate shall also include for providing EPOXY based water proofing compound for sealing the joints around the pipes. (Maximum thickness of RCC members shall be 300mm for slab & wall, 600 mm for beam). 75 mm dia. 100mm dia. 150mm dia.	
37	Schedule A-NDSR-1 Section-2, Item no1.04	Providing and fixing Laminated Wooden flooring with AC4 grade (12 mm thk) as directed on existing surface of approved make, quality, shade, having high pressure laminate surface of 0.3 mm thick with surface guard care material of high density fibre board, flooring planks having click joint system (Tongue and groove joint) Joint sealing with wax as per manufactures specifications, properly finishing the exposed edges and T moulding provided at the junction at laminated flooring and vitrified tiles /stone, including skirting, corner profile, door profile complete in all aspects, as directed by the Engineer-in-Charge.	Items are DELETED.
38	Schedule A-NDSR-1 Section-2, Item no 2.02	GI Framing Partition :- Providing and Fixing of GI Frame work consist of 48mm C stud (0.5mm thick, having one flange of 34mm and another of 36mm made of GI Steel) for vertical members placed at 600 centre to centre in 50mm GI floor and ceiling horizontal channel, (0.55mm thick, having equal flanges of 32mm made of GI steel) with joints staggered to avoid leakage through joints. Horizontal frame members at floor level/ skirting level and false ceiling & intermediate level as per details/ site requirement shall be provided as per manufacturer's specifications/ details. Framework to be secured to wall surface/ column surface closely structural support using wood suitable anchor fasteners or metal screw with wooden/ pvc rawel plug as per details.	
39	Schedule A-NDSR-1 Section-2, Item no 4.06	Non-Perforated Metal panel ceiling: Providing and installing of suspended false ceiling systems as per control sample for platform, concourse and subway areas with hook & tiles and various tiles sizes, butt jointed, fully demountable 0.5 mm thick flat pressed steel infill units and fascia ceiling type finished with 80 micron thick powder coated on exposed and unexposed surface as per specification, top fixing of SS expanding anchor bolts, rigid hangers, concealed type with trim, inclusive of cutting for electrical fixtures/ fittings, VAC grilles, fixed framing to support fixtures/ fittings and providing secondary supporting system below cable tray and duct and all complete as shown in drawings and specification.	
40	Schedule A-NDSR-1 Section-4, Item no 1	BASIN MIXER WITHOUT POPUP WASTE SYSTEM WITH 450MM LONG BRAIDED HOSES	
41	Schedule A-NDSR-1 Section-4, Item no 2	TABLE TOP BASIN, SIZE: 690X480X135 MM	
42	Schedule A-NDSR-1 Section-4, Item no 5	OVERHEAD SHOWER 400X400MM ROUND EDGE SQUARE HEAD SINGLE FLOW (BODY & FACE PLATE STAINLESS STEEL WITH CHROME PLATED) WITH RUBIT CLEANING SYSTEM	
43	Schedule A-NDSR-1 Section-4, Item no 6	SHOWER ARM 600X25X25MM SQUARE SHAPE FOR WALL MOUNTED SHOWERS WITH FLANGE.	
44	Schedule A-NDSR-1 Section-4, Item no 11	THERMATIK-R CONCEALED THERMOSTAT BATH & SHOWER MIXER	Items are DELETED.
45	Schedule A-NDSR-1 Section-4, Item no 12	FULLY AUTOMATIC RIMLESS WALL HUNG WC WITH PP ELECTRONIC SEAT COVER FIXING ACCESSORIES AND ACCESSORIES SET SIZE: 400X600X480 MM CERAMIC: WHITE SEAT COVER PANEL: WHITE	
46	Schedule A-NDSR-1 Section-4, Item no 13	PNEUMATIC SINGLE PIECE SLIM CONCEALED CISTERN WITH AUTO FLUSH FLOOR MOUNTING FRAME INSTALLATION KIT & S-TYPE DRAIN PIPE SET FOR WC(W/O CONTROL PLATE) COMPATIBLE WC:IAS-79953BI PP(SOLD AS SEPERATE)	
47	Schedule A-NDSR-1 Section-4, Item no 14	CILICA PNEUMATIC WHITE GLASS CONTROL PLATE	
48	Schedule B-NDSR-2 Item no 29 (a), (b), (c), (d)	Refuge Area furniture (Outdoor) Supplying and placement of Outdoor wicker furniture. The furniture is made of high-quality PE rattan which has strong toughness and superior load-bearing performance. It is waterproof and sun-resistant, prevent damping, fading and cracking, structure is Solid powder-coated aluminium frame with Powder coated SS legs and skid-resistant foot pads for stability. Upper material is PU Wicker, Frame Material is powder coated Aluminium with rust proof coating, Base is PU Solids. A class durable UV Protected wicker hands woven as per design. Powder coating to be outdoor grade. Cushions: Breathable water repellent cushions with 5 inch seat foam. And sink in back cushions with water repellent fabric. Fabric to be washing machine washable ,anti fungal and anti microbial treated. Table top has High-quality Taffened glass fixed with 4 suction cups. WARRANTY: 3 year warranty Synthetic Braid Rectangular Table DIMENSIONS: length 800mm, width 450mm and height 450 mm. Circular table DIMENSIONS: Dia 600mm and height 650 mm. Sofa 3 seater DIMENSION- L2100xD800xH650mm Sofa 1 seater DIMENSION- L830xD800xH650mm	Items are DELETED.
49	Schedule C-DSR 2021 (Civil) Item no 1.03	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajias, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-II) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	Item is DELETED.
50	ITT Clause E 5.1.5		<A new Paragraph is added below the existing clause E 5.1.5> The final inter-se Financial ranking/comparative statement shall be uploaded by NHRCL. The CPP generated inter-se ranking/comparative statement shall not be considered as Final, since some of the BOQ items are deleted.
51	Vol-1/NIT Page no 4 Clause 1.1.2 Key details:		<New row is inserted after 1st row> Approximate cost of the work: Rs. 46 Crore.