

**Civil**

SL. NO.	NSR	DESCRIPTION	QTY	UNIT	RATE	RATE IN WORD'S	AMOUNT
1	NSR	Harmony/Unicos/Geeken- Design & Specification as per or similar to 'Unicos' 80 mm thk. Double skin solid partition complete white in colour (including frames & Panel ) with single clear toughen glass of 5mm/8mm (as suggested) thickness(Design as per architectural details.)	168.03	sqm			
2	NSR	Harmony/Unicos/Geeken- Design & Specification as per or similar to 'Unicos' door( complete set including door frame, door leaf and door hardware of make-Dorma/ hardwyr/ Ozone/ Hettich, i.e Handles, Door Closers, Locks, Tower bolts etc.); size ( 2100 X 700) mm with frame white in colour and clear glass of 5mm/8mm thickness with eatching upto 2100 mm. As approved by the Architect.	18.48	sqm			
3	NSR	Providing and fixing in position veneered ceiling with 4 mm veneer with SS studs made of SS grade 304 as per design and fixed laid over 12 mm BWP ply laid on sub frame structure . Basic structure shall be of G.I frame work ( Refer item no. 3.4 of gypsum ceiling extras hanger shall be provided to take load of ply & veneer ) made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277. The veneer shall be of approved make (Greenply or equivalent) and shade, the grain shall be matched including proviiding grooves. The job shall also include veneer lining on edge of cove including polishing of approved shade. (As laid veneer area shall be measured for billing and cost of polish will be paid separately).	21.19	sqm			
4	NSR	Providing and fixing in position lacquered glass 5.5 mm thick with SS studs made of SS grade 304 as per design and fixed laid over 12 mm BWP ply white synthetic enamel painted which will be paid extra laid on sub frame structure . Basic structure shall be of G.I frame work ( Refer item of BSR for gypsum ceiling extras hanger shall be provided to take load of ply & glass) made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277. The glass shall be of approved make (Ashai or equivalent), the glass line shall be matched including proviiding grooves. The job shall also include edge polishing of glass. (As laid glass area shall be measured for billing and cost of white paint on ply will be paid separately). in false ceiling.	7.00	sqm			
5	NSR	Providing and fixing 40mm thick wooden wall panelling comprising of kail wood framework using 25mx50mm sections at a maximum spacing of 600mm in any one direction (including adding members as required) covered with12mm thick BWP ply layered with 4mm thk. veneer of selected group as approved (Basic Rate Rs.1674/-sqm)on one side pasted and pressed with adhesive to give a uniform and smooth finish, including 4mm thk. S.S. strip framework on all sides of veneer panels with wooden member surround, top moldings / margins, melamine polish etc. to finish the thickness, as shown in the drawings complete. All members / ply etc. shall be treated with anti-termite solution as per norms. No extra shall be paid for making of openings, door / window frames and for making provisions for electric conduits. Only material from one group only will be used and grains to be matched in manners as specified by the Architect.	45.82	sqm			
6	NSR	Providing and fixing in position lacquered glass 5.5 mm thick with SS studs made of SS grade 304 as per design and fixed laid over 12 mm BWP ply white synthetic enamel painted which will be paid extra laid on sub frame structure . Basic structure shall be of G.I frame work ( Refer item of BSR for gypsum ceiling extras hanger shall be provided to take load of ply & glass) made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277. The glass shall be of approved make (Ashai or equivalent), the glass line shall be matched including proviiding grooves. The job shall also include edge polishing of glass. (As laid glass area shall be measured for billing and cost of white paint on ply will be paid separately). in panelling	21.96	sqm			
7	NSR	Providing and laying Laminate wooden flooring (Grade AC4, 8 mm thick), having a good backing layer made up of plastic laminate or melamine as specified by the manufacturer and approved by Engineer-incharge.	38.46	sqm			
8	NSR	Providing and fixing 40mm thick wooden wall panelling comprising of kail wood framework using 25mx50mm sections at a maximum spacing of 600mm in any one direction (including adding members as required) covered with12mm thick BWP ply layered with 1mm thk. laminate of selected group as approved (Basic Rateas per BSR 2013 )on one side pasted and pressed with adhesive to give a uniform and smooth finish, including 4mm thk. S.S. strip framework on all sides of laminated panels with wooden member surround, top moldings / margins, melamine polish etc. to finish the thickness, as shown in the drawings complete. All members / ply etc. shall be treated with anti-termite solution as per norms. No extra shall be paid for making of openings, door / window frames and for making provisions for electric conduits. Only material from one group only will be used and grains to be matched in manners as specified by the Architect.	53.25	sqm			

9	NSR	<p>Supply &amp; Installation of Fully Automatic Sliding door operator compliant with future European standards and produced according to the guidelines for power-operated windows, doors and gates BGR 232, the UVV and the VDE regulations. TÜV design tested, tested according to the low voltage guidelines, production according to ISO 9001:2000 certification. Fulfills the DIN V18650 (prEN 12650).Automatic Sliding Door Operator should have mounting backplate for easy installation and a flexible track profile for improved noise &amp; vibration dampening and easy maintenance. Microprocessor-controlled control unit. Self-learning, with adjustable parameters for opening and closing speed, hold-open time and opening and closing force. Class of protection IP 20. Automatic Sliding Door Operators should be sturdy design with Self balancing Panel suspension system and with Anti-Jump fitting with clear passage width of 3000 mm SD (Two shutters of equal width) and clear height of 2400 .With the following accessories Function programs: Program Modes: - Off, Automatic, Permanent open, Exit only, Partial open. Adjustable Hold Open Time: Hold Open is easily adjustable at module as per client's requirement, Hold Open Time: 0 – 180 Sec. Adjustable Parameters Via parameter display and selection key at electronic module. Adjustable Opening Speed: 10 -70 Cm/S, Adjustable Closing Speed: 10 – 50 Cm/S, Hold Open time: 0 – 180 Sec ,Night Bank Opening time: 0 – 30 Sec ,Auto Error Display, with Error Code Display for error correction. Read-out error store with error codes Emergency off – Connection for Emergency Off Button, On activation Operator will Open Fully and Stop all functions, enabling passenger to pass through in case of Panic. Safety devices: Inbuilt Obstruction detection feature with automatic reversing cycle on obstruction, dynamic and static force limitation, emergency control unit (emergency stop), Safety PhotoCells: 1/ 2 Pair of PhotoCells are provided for safety of passenger standing in line of motion of Moving Panel and for through-passage monitoring Connection: 230 V, 50/60 Hz.</p> <p>Activators: Radar system 02 Nos, with 24 GHz, Mandatory as Int'Nat Standards, Light barriers, comprising receiver and transmitter -01 Pair Locking: Electro-mechanical locking, Bistable UPS of 750 VA shall be provided by others, which will give power backup of 20 min. only &amp; if the duration of power cut to the operator is more than 30 min., then separate arrangement for the same as Automatic Operator require un-interpreted stabilized power supply.</p>	1.00	Each		
10	NSR	Providing and fixing SS concealed tower bolt of approved make and sample				
10.1	NSR	200mm	6.00	Each		
10.2	NSR	300mm	6.00	Each		
11	NSR	<p>Hardwares in Doors Supplying and fixing following fixture of Dorset make including SS screws and other hardware required etc. complete as per hardware schedule, drawings and directions of Engingeer-In-Charge.</p>				
12		Mortice lock (Catlog No. ML 100 SS), Europrofile half cylinder (Catalog No. CL 200 SS) with Stainless steel "D" type handle 203mm long in 19mm dia (Catalog No. SD OR SS)	4.00	Each		
13	NSR	Hanging type floor door stoppers	8.00	Each		
14	NSR	Providing & fixing Stainless Steel 'C' handles 20x20x450mm long as per approved sample complete as per drawings & directions of Engineer-in-charge	2.00	Pair		
15	NSR	Providing and fixing Door closer of approved make including SS screws and other hardware required etc. complete as per drawings & directions of Engineer-in-charge	11.00	Each		
16	NSR	Providing and fixing Mortise dead bolt lock (with both side key operation) of approved make including necessary hardware complete as per drawings & directions of Engineer-in-charge	11.00	Each		
17	NSR	Blind	9.00	sqm		
18	NSR	Dismantaling and cairrage away of debris from site		L/S		
19	NSR	Providing and fixing cupboard as per design of MD OFFICE	3.68	sqm		

20	NSR	TOTAL COST OF FURNITURE					0.00
<b>Electrical</b>							
<b>SUB HEAD I : POINT WIRING</b>							
21	NSR	Supply and installation of telephone tag block of IDC type of following sizes in sheet metal enclosure of suitable dimensions fabricated out of 16 SWG sheet steel with castle key lock, hinged type cover including termination of telephone cables, making connections, painting of box etc, complete as required.					
21.1	NSR	10 Pair	1.00	Each			
22	NSR	Supply, installation, testing, & commission of following splitter with box complete in all respect					
22.1	NSR	2 Way	2.00	Each			
23	NSR	Supplying, instalation, Testing & Commissioning of the Cat 6 information outlets that should confirm or exceed component specifications TIA/EIA-568-B.2-1 standards for physical & electrical Specifications, should be fully unshielded type and should have the tool less mechanism with inbuilt crimping tool complete as required and it should be Third Party certified and tested. (RJ-45 UTP information outlet.) (Legrand/Systimax/Amp)	16.00	Nos.			
<b>SUB HEAD II : SUPPLY &amp; INSTALLATION OF LIGHT FIXTURES &amp; FANS</b>							
24	NSR	Supply, assembling, installation, testing & commissioning of following type of light fixtures and fans. All fluorescent fixtures shall be provided with power factor improvement capacitors & lamps and installation arrangement using proper support etc. complete as required.					
24.1	NSR	1x 6 W LED recessed sleek round panel downlighter with integrated edge-lit LEDs installed with high efficient low glare sheet for optimum light distribution cast aluminium with white paint as required. (Make: Legaro, Cat No-LRP 1006 or Equivalent)	15.00	Each			
24.2	NSR	1x 15 W LED recessed downlighter high efficiency low glare sheet for optimum light distribution cast aluminium with white powder paint as required. (Make: Legaro, Cat No-LDT 4215 or Equivalent)	12.00	Each			
24.3	NSR	1x 22 W LED recessed downlighter high efficiency low glare sheet for optimum light distribution cast aluminium with white powder paint as required. (Make: Legaro, Cat No-LDT 4222 or Equivalent)	20.00	Each			
24.4	NSR	1x 45 W LED recessed sleek panel suitable for 600x600 module with integrated edge-lit LEDs installed with high efficient low glare sheet for optimum light distribution as required. (Make: Legaro, Cat No-LRP 1245 or Equivalent)	17.00	Each			
<b>SUB HEAD II : SUPPLY &amp; INSTALLATION OF LIGHT FIXTURES &amp; FANS</b>							
24.5	NSR	2 X 18 W CFL (Surface Type) low glare Down lightner with specular finished reflector integral type control gear suitable for Horizontal Lamp, CRCA sheet steel body with Electronic Ballast duly wired with lamp complete etc as required. (Make:- PHILIPS FCS105 2XPL-C/ 40 18W EBW or Equivalent)	8.00	Each			
24.6	NSR	1 X 11 W CFL wall/ceiling mounted Mirror Light housing made out of CRCA sheet 0.5 mm thick (min.) white powder coated body inside & outside sleek & decorative type luminaire with opal acrylic cover, complete with lamp and all accessories etc as required. (Make:- PIERLITE CSDC 111EG or Equivalent)	5.00	Each			
24.7	NSR	1 X 6W LED Flexi Strip for Cove Lighting and general purpose lighting applications complete with LED and all accessories etc as required. (Make: LEGERO LYNX6 or equivalent)	75.00	Mtr			
24.8	NSR	Ceiling fan 1200mm Dia sweep with rod & all accessories as complete as required (Supply Only).	1.00	Each			
24.9	NSR	300 mm dia, 900 rpm single phase exhaust fan with louvre shutters etc. as required. (Supply Only).	1.00	Each			
<b>SUB HEAD III : BDB'S &amp; PANELS</b>							
<b>BDB GROUND FLOOR (ADMIN BLOCK)</b>							
25	NSR	Supply, installation, testing & commissioning of cubicle type totally enclosed free standing type moisture, dust and vermin proof Meter Board made out of 2.0 mm thick MS sheet complete with following equipments, including ammeter, ammeter selector switch, voltmeter, voltmeter selector switch, indicating lamps, CT's, internal wiring with suitable size wires/ cable, interconnection, painting etc as required. (As per SLD Enclosed)					

		<b>Incoming</b>				
		1 No. 100 A FP MCCB, 35KA				
		1 Set 150 Amp 4 Strip Al.Bus Bar				
		1 Set Multi LED type Indication lights SPMCB's				
		1 No. Voltmeter (0-500 V) with protection fuses				
		1 Set Ammeter (0-200 A)				
		1 Set CTs for Ammeter 200/5 A ratio				
		1 Nos. Selector Switches for Voltmeter & Ammeter				
		<b>Outgoing</b>				
		2 Nos. 63A TPN MCB, 10KA				
		3 Nos. 40A TPN MCB, 10KA				
		1 Nos. 25A TPN MCB, 10KA				
		1 Nos. 40A DP MCB, 10KA				
		Panel described as above	1.00	Set		
		<b>TOTAL OF BDB'S &amp; PANELS CARRIED OVER TO SUMMARY</b>				
		<b>SUB HEAD - IV - CCTV SYSTEM.</b>				
26	NSR	Supply, Installation, Testing & Commissioning of 1/3" Super HAD CCD, min 580 TVL, 0.001 lux, DSS, DNR, Motion Detection, DC12V, PAL with Varifocal 2.9 - 8mm Lens, Indoor Housing, Box Type Camera as per specification complete as required including power supply unit.	5.00	Each		
27	NSR	Supply, Installation, Testing & Commissioning of 8 Channel Embedded DVR (PAL or NTSC), 400/480fps Recording, Up to 4TB Storage & 25/30fps Recording with pre-alarm recording as per Specification as required.	1.00	Each		
28	NSR	Supply, Installation, Testing & Commissioning 3CX1 sq mm cable for power as per requirement.	100.00	Mtr		
29	NSR	SITC of Radio frequenct coaxial unarmoured cable RG-59.	150.00	Mtr		
30	NSR	SITC of 12 U Rack with power strip with spike arrestors etc complete as required.	1.00	Each		
31	NSR	Supplying & installation of 12 Port Rack mounted LIU box complete with SC Coupler panel, adapter plates including terminating the cables etc complete as required.	1.00	Each		
32	NSR	Supplying Installation Testing & Commissioning of 24-port loaded Cat 6 Modular Jack Panel with integrated rear cable management tray complete including connections etc as required.	1.00	Each		
33	NSR	Supplying & Fixing of 26" inches 500 TVL high resolution LCD monitor with suitable workstation as required.	1.00	Each		
		<b>SUB HEAD-V- FIRE DETECTION SYSTEM</b>				
34	NSR	Supply, Installation, Testing & Commissioning of Microprocessor based 1 loop fire alarm control panel expandable upto x loops fully networkable with each loop capable of taking 125 devices, 8 line x 40 character alpha-numeric liquid crystal display .The panel shall be soft addressable type. The panel shall be able to give pin point location of all fire/fault conditions. Further, the panel must be able to automatically switch off respective control switches when ever any alarm is triggered. The panel shall have in built rectifier, Loop cards,provision for external & internal printer(if required), L C D unit to indicate Fire/Fault Signal with address and analog output, built in printer to log all fire or fault events complete in all respects, integral SMF lead acid batteries with sealed cells of 24 V capable of running for a minimum of 8 hours with integral battery charger complete as required and as per specification.				

34.1	NSR	1 Loops	1.00	Each			
35	NSR	Supply, Installation, Testing & Commissioning of Analog Addressable Intelligent optical smoke detector with decentralise intelligence, automatic function self test, soft addressable Photo type with inbuilt fault isolator as per NFPA style 7 wiring complete with base as required	40.00	Each			
36	NSR	Supply, Installation, Testing & Commissioning of Intelligent addressable Manual Call Point / Pull station complete as per specification.	1.00	Each			
		<b>SUB HEAD-V- FIRE DETECTION SYSTEM</b>					
37	NSR	Supply Installation, Testing & Commissioning of wall mounting addressable type sounder including power supply and accessories.	1.00	Each			
38	NSR	Supply Installation, Testing & Commissioning of response indicator.	20.00	Each			
39	NSR	Supply, installation, testing & commissioning of 3 KVA UPS in paralleling mode at 0.99 input power factor, as per specification given in the document with following broad features. THD(i) shall be less than 3% in the entire loading range. Input power factor shall be 0.99. from 25% to 100% load. UPS shall carry design output at 40 deg. Shall have soft start and hold of for incoming supply. Inverter capability to supply 150% load for 5 sec. Single Phase Input and Single Phase Output. ( Input - 180V - 260V, Single Phase, 2 wire. / Output - 220 Volt, Single Phase, 2 Wire.) Shall not allow deep discharge of the battery and shall not go to 10.5 volts in case of 12 volt cells. Battery shall be external type with rack and suitable for 15 minute backup on 100% load. UPS described as above	1.00	Set			
		<b>SUBHEAD- VII - PA SYSTEM</b>					
		<b>Controller-</b>					
40	NSR	Supply, Installation, Testing & Commissioning of a 16 speaker circuit digital voice alarm controller that supports 16 zones without additional equipment. Direct connection to 16 speaker lines from controller. Monitored emergency Push to Talk paging microphone part of controller. Includes Digital Signal Processor, Audio storage for pre-recorded messages, audio matrix, amplifier monitoring and control, loudspeaker output connection terminals and audio source connection ports for auxiliary inputs.	1.00	Set			
		<b>Paging Station-</b>					
41	NSR	Supply, Installation, Testing & Commissioning of Local Paging Station for all 16 zones. Interfaces with the controller via a CAT5 cable. Equipped with a monitored gooseneck condenser microphone. Equipped with Power On and Fault Indicators, BGM and audio source selection switches, function selection switches, LCD display with scroll up/down switches, Mode selection switch and Enter switch, all call selection switch, Reset/Off Switch and Mic On/Off switch. 16 speaker circuit (zone) selection switches with status indication for easy selection of speaker circuits. One number extra microphone shall be provided for basement zone as using for car calling purpose and controller shall be compatible for the same.	1.00	Set			
		<b>Amplifier</b>					
42	NSR	Supply, Installation, Testing & Commissioning of amplifier to be connected directly to controller with standard 100V line. Equipped with Toroidal Transformer, protective circuits, LED Status indicators and speaker output short circuit protection, extensive heat sinking, fan cooling and soft start. With balanced XLR input. - 500 watt.	1.00	Set			
		<b>Speaker (Ceiling Mounted)</b>					
43	NSR	Supply, Installation, Testing & Commissioning of 6W ceiling speaker 5inch in metal with Line Matching Transformer and tapping of 3W and 6W.	14.00	No.			
		<b>Mounting Rack</b>					
44	NSR	Supply, Installation, Testing & Commissioning of 19" Mounting Rack with required power points suitable for above equipments.	1.00	No.			
		<b>Volume Controller</b>					
45	NSR	Supply, Installation, Testing & Commissioning of 6 watt volume controller with box & modular plate etc complete as required.	10.00	No.			
46	NSR	Supply, Installation, Testing & Commissioning of 2 core, 1.5 sq.mm PVC insulated twisted copper wire in existing conduit as complete as required.	200.00	No.			

## Plumbing

47.00	NSR	Providing and fixing 100mm dia G.I. inlet fitting consisting of 100mm dia main G.I pipe with multiple G.I. sockets (Inlets) of required diameter welded to it (as per site requirement) and fixing the same to C.I trap and setting in cement concrete, complete as per instructions of the Engineer in charge.	7.00	Each			
48.00	NSR	Providing and fixing cast brass Floor Clean Out plug with suitable insert keys for opening, male threaded joint with G.I. socket lead caulked to soil pipe / waste pipe of C.I. and C.I.(LA) pipe as required complete as per instruction of the Engineer in charge.	5.00	Each			

## Fire

<b>Sprinkler System</b>							
49	NSR	Supply, Installation, Testing & Commissioning of Mild Steel pipe (IS:1239 Part-I) heavy class including cutting, threading, welding etc. bends, elbows reducers, clamps, hangers etc. including cutting holes in brick or RCC walls/slabs and making good the same complete including the cost of structural work for supports fabricated from standard sections of required sizes and thickness e.g. galvanised M.S. rods, angles channels, slotted angle, etc., cutting to sizes, drilling welding fixing to insert plates, including painting with one coat of primer and two or more coats of synthetic enamel paint of approved make and shade including all steel work. <b>Note : Pipes upto and 50 mm dia shall be threaded joints, above 50mm shall be welded joints.</b>					
49.1	NSR	80mm dia	10.00	Metre			
49.2	NSR	65 mm dia	12.00	Metre			
49.3	NSR	50mm dia	7.00	Metre			
49.4	NSR	40mm dia	9.00	Metre			
49.5	NSR	32mm dia	10.00	Metre			
49.6	NSR	25mm dia	110.00	Metre			
50	NSR	Providing and fixing brass/bronze lever operated ball valve of full flow with stainless steel ball (AISI 304 and spindle AISI 410) with setting and gland of superior quality having minimum working pressure of 20 kg/cm <sup>2</sup> .					
50.1	NSR	50 mm dia	1.00	Each			
51	NSR	Providing and fixing C.I butterfly valve, wafer end type class PN 1.6 as per I.S:13095 or BS:5155, including necessary nuts, bolts, gaskets etc., complete					
51.1	NSR	80mm dia	1.00	Each			
52	NSR	Providing, fixing, and testing of 15mm dia. Chrome finished sprinkler head with quartz bulb, set to operate at 68°C, complete as per given specifications. (UL/FM Approved) for corridor / public area or wherever required.					
52.1	NSR	Pendent type Sprinkler	40.00	Each			
53	NSR	Providing and fixing electrically operated flow indicating switches with threaded connection for indicating water flow in sprinkler branch line with necessary junction box installed in accessible place. including cost of cable etc. complete. (Wiring from switches to panel and stair-case pressurisation not included).					
53.1	NSR	80mm dia	1.00	Each			
54.00	NSR	Providing and fixing 25mm dia inspecting & testing assembly with gunmetal isolation valve, gunmetal sight glass bypass valve & connected to line drain complete in all respect as per standard practice of code including pressure gauges of approved make.	1.00	Each			
55	NSR	Providing and fixing dial type pressure gauge with isolation cock and pipe at hydrant station & sprinkler line.					
55.1	NSR	Dia diameter 150 mm calibration 0-16 Kg.	1.00	Each			
<b>Fire Extinguishers</b>							
56	NSR	Providing and fixing ISI marked portable fire extinguishers including initial fill & wall suspension bracket of the following type.					
56.1	NSR	CO <sub>2</sub> type 4.5 Kg. capacity Fire Extinguisher . flat base including valve , discharge hose of not less than 10 mm dia 1 m long and complete in all respects including initial fill wall suspension bracket and conforming to IS: 15683.	2.00	Each			

56.2	NSR	Water CO <sub>2</sub> type of 9 lit. Fire Extinguisher with Gun metal cap and nozzle complete in all respects including wall suspension bracket and conforming to IS: 15683.	2.00	Each			
57	NSR	Providing and fixing 5 kg capacity ABC Stored Pressure type fire extinguisher ISI marked under IS:15683 complete with imported Mono Ammonium Phosphate based ABC Powder suitable for all classes of fire.	2.00	Each			
<b>Total C/F to Summary</b>							
<b>HVAC</b>							
58	NSR	<b>Air Cooled Ductable Units</b>					
		Supply, installation, testing & commissioning of Air Cooled Ductable Split Units. The indoor unit shall be ductable split type complete with DX coil, filters, blowers with motor and drive, refrigerant piping, first charge of refrigerant & oil, HP / LP cutout, thermostatic expansion valve, distributor, starter & other necessary controls to form a factory tested compact unit. The outdoor unit shall have condenser coil, fans with motor and drive, scroll compressor, panel etc.					
		Note:- All the length of refrigerant piping inside the conditioned space shall be insulated & insulation of external refrigerant piping shall be as per recommendation of manufacturer.					
58.1	NSR	4.0 TR Ductable Split Unit					
58.1.1	NSR	Supply	1.00	NO.			
58.1.2	NSR	Receive, Installation, Testing & Commissioning	1.00	NO.			
58.2	NSR	8.5 TR Ductable Split Unit with single outdoor unit					
58.2.1	NSR	Supply	1.00	NO.			
58.2.2	NSR	Receive, Installation, Testing & Commissioning	1.00	NO.			
		<b>Air Cooled Cassette Units</b>					
59	NSR	Supply, installation, testing and commissioning of Cassette Units with Rotary / Scroll Compressor & corded control of following capacity. The unit shall be suitable for 30 Running Meter Piping.					
59.1	NSR	1.5 TR					
59.1.1	NSR	Supply	7.00	NO.			
59.1.2	NSR	Receive, Installation, Testing & Commissioning	7.00	NO.			
60	NSR	<b>Refrigerant Piping</b>					
		Supply, installation, testing and commissioning of additional refrigerant piping (two lengths) duly insulated with 25 mm for indoor application and 38 mm for outdoor application closed cell nitrile rubber of density 60+/-10% Kg/m <sup>3</sup> to interconnect indoor & outdoor units for each circuit. (Refrigerant piping for individual circuit shall be restricted to maximum length of 25 Meter by AC Contractor)					
60.1	NSR	a) Cassette Units	150.00	RMT			
60.2	NSR	b) Ductable Units (5.5 TR)	20.00	RMT			
60.3	NSR	c) Ductable Units (8.5 TR)	25.00	RMT			
		<b>Note:-</b> 11 & 16.5 TR Ductable / Package Units shall have 2 & 3 Outdoor Unit of 5.5 TR respectively & refrigerant piping shall be applicable for 5.5 TR as given above					
61	NSR	<b>Acoustically Insulated Inline Fans</b>					
		Supply, installation, testing and commissioning of Inline fans with motor complete in all respect & of following capacities. The casing of inline fans shall be acoustically lined & shall be selected for lower noise level. Fan motor shall have inbuilt speed controller.					
61.1	NSR	a) 200 CFM, 12 mm St. Pr., Single Phase	1.00	NO.			
61.2	NSR	b) 500 CFM, 15 mm St. Pr., Single Phase	1.00	NO.			
61.3	NSR	c) 750 CFM, 15 mm St. Pr., Single Phase	1.00	NO.			
62	NSR	<b>Plastic Propeller Fans</b>					

		Supply, installation, testing and commissioning of propeller exhaust fans of various capacities as given below suitable for 240 volts, 50 Hz, single phase AC supply complete with gravity louvers & speed regulator etc.				
62.1	NSR	a) 100 CFM	1.00	NO		
63	NSR	<b>Condensate Drain Piping</b>				
		Supply, installation, testing & commissioning of PVC Hard drain piping with fittings, valves & insulation with 13 mm for indoor application closed cell nitrile rubber of density 60+/-10% Kg/m <sup>3</sup> .				
63.1	NSR	25 mm Dia. of pipe, PVC Hard Pipe	105.00	RMT		
63.2	NSR	32 mm Dia. of pipe, PVC Hard Pipe	15.00	RMT		
63.3	NSR	40 mm Dia. of pipe, PVC Hard Pipe	15.00	RMT		
64	NSR	<b>Factory Fabricated GI Duct</b>				
		Supply, fabrication, installation and testing of G.S.S. sheet metal ducting complete with Splitter Damper, duct damper, vanes etc. as required & as per specifications & as per approved shop drawings.				
64.1	NSR	a) 24 G (Up To 750 MM)	5.00	SMT		
64.2	NSR	b) 22 G (750 MM To 1500 MM)	5.00	SMT		
65	NSR	<b>Site Fabricated GI Duct</b>				
		Supply, fabrication, installation & testing of sheet metal ducting complete with Splitter Damper vanes as required and as per ISI specifications and as per approved shop drawings.				
65.1	NSR	a) 24 G (Up To 750 MM)	70.00	SMT		
65.2	NSR	b) 22 G (750 MM To 1500 MM)	40.00	SMT		
66	NSR	<b>Acoustic Lining of Duct</b>				
		Supplying and fixing of acoustic lining of duct with fibre glass rigid board of density 48 Kg/m <sup>3</sup> sealed in fibre glass tissue paper and covered with 0.5 mm thick perforated aluminium sheet and conforming to specification given in the tender.				
66.1	NSR	12 mm thick fibre glass rigid board.	15.00	SMT		
66.2	NSR	25 mm thick fibre glass rigid board.	15.00	SMT		
67	NSR	<b>Thermal Insulation on Duct</b>				
		Supplying and fixing of external thermal insulation on ducts with Cross Linked Closed Cell Polyethylene FR-XPE insulation, tape & adhesive (pidilite SR -998) as required of following thickness.				
67.1	NSR	9 mm thick with aluminium metalised surface	80.00	SMT		
68	NSR	<b>Duct Dampers</b>				
		Supply, installation and testing of multiblade box type Galvanized Sheet Steel construction damper for ducts to be provided with suitable links and quadrants for control of volume of air.	1.00	SMT		



69	NSR	<b>Grilles, Diffusers &amp; VCD</b>				
		Supply, installation and testing of Powder coated Aluminium extruded grill / diffusers as per specification & of following sizes:				
69.1	NSR	a) Supply, installation & testing of Powder coated Extruded Aluminium single louvered supply / return air register (grills).	3.00	SMT		
69.2	NSR	b) Supply, installation & testing of Powder coated Extruded Aluminium supply / return air diffuser.	5.00	SMT		
69.3	NSR	c) Supply, installation & testing of Powder coated Extruded Aluminium Fixed Bar Linear Air Register of following sizes.				
69.3.1	NSR	150 MM Linear Grille	5.00	RMT		
69.3.2	NSR	100 MM Linear Grille	5.00	RMT		
69.4	NSR	d) Supply, installation and testing of Volume Control Dampers to be provided in supply air registers / terminals.	5.00	SMT		
69.5	NSR	e) Supply, installation and testing of fresh / exhaust air grilles with bird screen and dampers etc.	1.00	SMT		
70	NSR	<b>Supports of Outdoor Unit for all unit</b>				
		Supply & fixing of MS frames duly epoxy coated for outdoor units.				
70.1	NSR	For Cassette Unit Outdoor	7.00	NO		
70.2	NSR	For Ductable Split Unit Outdoor	2.00	NO		
71	NSR	<b>Single Phase MPCB for Fans &amp; Cassette Units</b>				
		Supply, installation, testing and commissioning of Single Phase MPCB of following capacities.				
71.1	NSR	a) 10 A SP MPCB SET 01	11.00	NO.		
71.2	NSR	a) 16 A SP MPCB SET 01	2.00	NO.		
72	NSR	<b>Isolators for Outdoor Unit</b>				
		Industrial isolator switch for outdoor unit with sheet metal enclosure, rain protection etc & for indoor unit as required to suit the site condition.				
72.1	NSR	63 A 4 pole	1.00	NO.		
72.2	NSR	40 A 4 pole	1.00	NO.		
73	NSR	<b>Power &amp; Control Cabling</b>				
		Supply, laying, testing and commissioning of power and control cabling as per specification given in the tender. (Power supply shall be made available at the isolators / MCB by Client).				
73.1	NSR	i) Power cabling (XLPE insulated, PVC sheathed Al conductor armoured cable of 1.1 KV Grade) including cable end termination with brass compression glands & aluminium lugs.				
73.1.1	NSR	4C x 16 Sq. mm	20.00	RMT		
73.1.2	NSR	4C x 6 Sq. mm	20.00	RMT		
73.1.3	NSR	3C x 2.5 Sq. mm Copper	20.00	RMT		
73.1.4	NSR	3C x 1.5 Sq. mm Copper	10.00	RMT		
73.2	NSR	ii) Control cabling (XLPE insulated Cu conductor of 1.1 KV Grade armoured cable)				
73.2.1	NSR	6C x 1.5 Sq. mm	140.00	RMT		
73.2.2	NSR	6C x 2.5 Sq. mm	10.00	RMT		
74	NSR	<b>Earthing Strip / Wires</b>				
74.1	NSR	a) Supply & laying of 6 mm dia. GI wire or in recess for loop earthing as required.	210.00	RMT		
		<b>TOTAL PRICE INCLUSIVE OF ALL TAXES &amp; DUTIES AS APPLICABLE IN BIHAR</b>				