

**Malaviya National Institute of Technology Jaipur****Name of work :- Renovation of old library hall near central store at MNIT Campus Jaipur****G-Schedule**

NAME OF THE FIRM

Part - A DSR Civil						
S.No	Qty	Items	Unit	Rate	Amount	Rate In words
1		Carriage of material by mechanical transport including loading,unloading and stacking.				
1.1	1.00	lime,moorum ,building rubbish lead -2 KM	cum	89.20	89.20	Rupees Eighty Nine and Twenty Paise
2		Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift up to 1.5 m, as directed by Engineer-in-Charge:				
2.1	550.00	All kinds of soil	Sqm	53.00	29150.00	Rupees Fifty Three Only
3		Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :				
3.1	1.50	Cement mortar 1:6 (1 cement : 6 coarse sand)	Cum	5582.85	8374.00	Rupees Five Thousand Five Hundred Eighty Two and Eighty Five Paise Only
4		Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level.				
4.1	143.00	Cement mortar 1:4 (1 cement :4 coarse sand)	Sqm	684.20	97841.00	Rupees Six Hundred Eighty Four and Twenty Paise Only
5		Providing and fixing ISI marked flush door shutters conforming to IS: 2202 (Part I) non-decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters :				
5.1	18.00	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws.	Sqm	1559.75	28076.00	Rupees One Thousand Five Hundred Fifty Nine and Seventy Five Paise Only
6		Providing and fixing ISI marked oxidised M.S. sliding door bolts with nuts and screws etc. complete :				
6.1	7.00	300x16 mm	No.	154.85	1084.00	Rupees One Hundred Fifty Four and Eighty Five Paise Only
7		Providing and fixing ISI marked oxidised M.S. tower bolt black finish, (Barrel type) with necessary screws etc. complete :				
7.1	7.00	250x10 mm	No.	64.00	448.00	Rupees Sixty Four Only
7.2	7.00	150x10 mm	No.	44.10	309.00	Rupees Forty Four and Ten Paise Only
8		Providing and fixing ISI marked oxidised M.S. handles conforming to IS:4992 with necessary screws etc. complete :				
8.1	14.00	125 mm	No.	28.60	400.00	Rupees Twenty Eight and Sixty Paise Only
9	7.00	Providing and fixing bright finished brass hanging type floor door stopper with necessary screws, etc. complete.	No.	85.85	601.00	Rupees Eighty Five and Eighty Five Paise Only

10	210.00	Providing and fixing angle iron frames for doors, windows and ventilators of mild steel Angle sections of size 35x35x5 mm, joints mitred and welded by angle iron 35x35x5 mm or 35x 5 mm flat pieces to the existing T-iron frame or to the wall with dash fastener, including fixing of necessary butt hinges and screws and applying a priming coat of approved steel primer, all complete as per the direction of Engineer-In-charge.	Kg	66.00	13860.00	Rupees Sixty Six Only
11		Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS : 15622 , of approved make, in all colours and shades, laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand) jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.				
11.1	268.00	Size of Tile 800x800 mm	Sqm	1414.95	379207.00	Rupees One Thousand Four Hundred Fourteen and Ninety Five Paise Only
12		Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer) with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make in all colours & shade in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including grouting the joint with white cement & matching pigments etc. complete.				
12.1	24.00	Size of Tile 800x800 mm	Sqm	1432.80	34387.00	Rupees One Thousand Four Hundred Thirty Two and Eighty Paise Only
13	329.00	Providing and fixing pre-coated galvanised iron profile sheets (size, shape and pitch of corrugation as approved by Engineer-in-charge) 0.50 mm (+ 0.05 %), total coated thickness with zinc coating 120 gm per sqm as per IS:277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns. Sheet should have protective guard film of 25 microns minimum to avoid scratches during transportation and should be supplied in single length upto 12metre or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling /self tapping screws of size (5.5x 55mm) with EPDM seal, complete upto any pitch in horizontal/ vertical or curved surfaces excluding the cost of purlins, rafters and trusses and including cutting to size and shape wherever required.	Sqm	550.40	181082.00	Rupees Five Hundred Fifty and Forty Paise Only
14		Providing and fixing pre-coated galvanised steel sheet roofing accessories 0.50 mm (+ 0.05 %) total coated thickness, Zinc coating 120 gm per sqm as per IS: 277 in 240 mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws complete :				
14.1	30.00	Ridges plain (500 - 600mm).	m	360.45	10814.00	Rupees Three Hundred Sixty and Forty Five Paise Only
14.2	60.00	Flashings/ Aprons.(Upto 600 mm)	m	332.80	19968.00	Rupees Three Hundred Thirty Two and Eighty Paise Only
15		12 mm cement plaster of mix : 1:6 (1 cement: 6 coarse sand)				
15.1	144.00		Sqm	168.25	24228.00	Rupees One Hundred Sixty Eight and Twenty Five Paise Only
16		15 mm cement plaster on rough side of single or half brick wall of mix : 1:6 (1 cement: 6 coarse sand)				
16.1	144.00		Sqm	194.60	28022.00	Rupees One Hundred Ninety Four and Sixty Paise Only

17	290.00	Providing and applying plaster of paris putty of 2 mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	118.70	34423.00	Rupees One Hundred Eighteen and Seventy Paise Only
18		Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade.				
18.1	290.00	New work (two or more coats) over and including water thinnable priming coat with cement primer.	Sqm	93.70	27173.00	Rupees Ninety Three and Seventy Paise Only
19		Painting with synthetic enamel paint of approved brand and manufacture of required colour to give an even shade:				
19.1	22.00	Two or more coats on new work over an under coat of suitable shade with ordinary paint of approved brand and manufacture.	Sqm	112.30	2471.00	Rupees One Hundred Twelve and Thirty Paise Only
20		Repairs to plaster of thickness 12 mm to 20 mm in patches of area 2.5 sq. meters and under, including cutting the patch in proper shape, raking out joints and preparing and plastering the surface of the walls complete, including disposal of rubbish to the dumping ground , all complete as per directions of Engineer-In-Charge .				
20.1	25.00	With cement mortar 1:4 (1 cement : 4 fine sand).	Sqm	264.80	6620.00	Rupees Two Hundred Sixty Four and Eighty Paise Only
21		Distemping with oil bound washable distemper of approved brand and manufacture to give an even shade :				
21.1	301.00	Old work (one or more coats) .	Sqm	33.35	10038.00	Rupees Thirty Three and Thirty Five Paise Only
22	301.00	Removing dry or oil bound distemper, water proofing cement paint and the like by scrapping, sand papering and preparing the surface smooth including necessary repairs to scratches etc. complete.	Sqm	10.80	3251.00	Rupees Ten and Eighty Paise Only
23	291.00	Hacking of CC flooring including cleaning for surface etc. complete as per direction of the Engineer-in-Charge.	Sqm.	1.50	437.00	Rupees One and Fifty Paise Only
24		Demolishing stone rubble masonry manually/ by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-charge :				
24.1	2.00	In cement mortar	Cum	1005.70	2011.00	Rupees One Thousand Five and Seventy Paise Only
25		Dismantling roofing including ridges, hips, valleys and gutters etc., and stacking the material within 50 metres lead of:				
25.1	329.00	Asbestos sheet	Sqm	32.85	10808.00	Rupees Thirty Two and Eighty Five Paise Only
26	268.00	Dismantling aluminium/ Gypsum partitions, doors, windows, fixed glazing and false ceiling including disposal of unserviceable surplus material and stacking of serviceable material with in 50 meters lead as directed by Engineer-in-charge.	Sqm	24.30	6512.00	Rupees Twenty Four and Thirty Paise Only

27		Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass/ stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) :				
27.1		For fixed portion				
27.1.1	280.00	Powder coated aluminium (minimum thickness of powder coating 50 micron)	Kg	384.50	107660.00	Rupees Three Hundred Eighty Four and Fifty Paise Only
28		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge . (Cost of aluminium snap beading shall be paid in basic item):				
28.1	26.00	With float glass panes of 5.50 mm thickness	Sqm	1003.95	26103.00	Rupees One Thousand Three and Ninety Five Paise Only
29		Galvanised iron perimeter wall angle of size 24x24x0.40 mm of length 3000 mm to be fixed on periphery wall / partition with the help of plastic rawl plugs at 450 mm center to center and 40 mm long dry wall SS screws. The work shall be carried out as per specifications, drawing and as per directions of Engineer-in-Charge.				
29.1	268.00	With fully perforated 12 mm thick micro tegular edged or 10 mm thick square edged GRG false ceiling tiles.	Sqm	1452.90	389377.00	Rupees One Thousand Four Hundred Fifty Two and Ninety Paise Only
			Total		1484824.20	
			DEDUCT COST INDEX	8.82%	130961.49	
			Grand total		1353862.71	
			Percentage "Above" or "Below" or "At par" the Estimated cost of work/schedule			
Sr.No.	Description of Item	Estimated cost of work (in Rupees)	Rate Quoted by Contractor As		Price	
			"Above" or "Below" or "At Par"	% in Figures	In Words	Total Cost (in Rupees)
1	2	3	4	5	6	7
1		13,53,863.00				-
TOTAL COST OF SCHEDULES:-		13,53,863.00	TOTAL QUOTED PRICE=			0.00
Grand Total (in words)			#NAME?			
<u>H-Schedule</u>						
PART-B NDSR CIVIL						
S.No	Qty	Items	Unit	Rate	Amount	
1		Supplying and fixing stone lintels/bed plates of approved quarry rough dressed in cement mortar 1:4 :				
1.1	0.56	Upto 15 cm. thick.	Cum		0.00	
			Total Part B			0.00
<u>H-Schedule</u>						
PART-C ELECTRICAL						

S.No	Qty	Items	Unit	Rate	Amount	Rate In words
1		S&F following sizes (dia.) of ISI marked medium duty PVC conduit along with accessories in surface / recessed using saddles, clamps, fastener as required including cutting the wall, covering conduit and making good the same as required. (Make: AKG, BEC, Precision, Polypack, Polycab)				
1.1	30.0	20 mm	R. mtr.		0.00	
1.2	80.0	25 mm	R. mtr.		0.00	
2		Wiring of light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper conductor 1.1 kV grade and 1.5 sq. mm nominal size FR PVC insulated unsheathed flexible copper earth conductor 1.1 kV grade (IS:694) of approved make in surface / recessed ISI marked medium duty PVC conduit & it's accessories, round tiles, Hot Dipped Galvanized Modular Box with earth terminal, 6 A Modular switch, Modular plate with grid plate, screws, making connections, testing etc. as required. (Make BSR Group-1)				
2.2	40.0	Medium point (up to 6 mtr.)	P. point		0.00	
2.3	50.0	Long point (up to 10 mtr..)	P. point		0.00	
3		Supplying and drawing FR PVC insulated & unsheathed flexible copper conductor ISI marked (IS:694) of 1.1 kV grade and approved make in existing surface or recessed conduit/casing capping including making connections etc. as required. (RR Kabel , National, Finolex)				
3.1	50.0	3x 1.5 sq.mm	Mtr.		0.00	
3.2	150.0	2 x 2.5 sq. mm. + 1x 1.5sqmm	Mtr.		0.00	
3.3	75.0	2 x 4.0 sq. mm. + 1 x 2.5 sq. mm.	Mtr.		0.00	
3.4	75.0	4 x 6.0 sq.mm, Gr.I	Mtr.		0.00	
4		Supplying and drawing PVC/ Polythene insulated and PVC sheathed unarmoured/ armoured telephone cable with 0.5 mm dia. Tinned / annealed copper conductor taped & conforming to ITD specification S/WS -113C of approved make in existing surface or recessed conduit/casing capping.				
4.1		Unarmoured Telephone cable in existing surface or recessed conduit/casing capping. Delton, Finolex, National, RR Kabel, Polycab, Havell's				
a	40.0	3 pair	Mtr.		0.00	
5		P&F 240/415 V AC MCB with positive isolation of breaking capacity not less than 10 KA (B/ C/ D tripping characteristic) ISI marked IS 8828(1996)]/ conforming to IEC 60898 in existing board/sheets including making connections with lugs, testing etc. as required. (Make: Schneider (neo break), Siemens, GE (G2000), ABB, Legrand (Ekinoxe / Lexie))				
5.1		Single pole MCB				
a	26.0	6 A to 32 A rating	Each		0.00	
5.2		Triple pole MCB				
a	4.0	40 A 63 A rating	Each		0.00	
6		P&F 240/415 V isolator conforming to IS:13947-III/ IEC 60947-3 on existing board / sheet including making connections, testing etc. as required. (Make: Schneider (neo break), Siemens, GE (G2000), ABB, Legrand (Ekinoxe / Lexie))				
6.1		Four pole Isolator				
a	6.0	63 A rating	Each		0.00	
7		P&F 240/415 V Residual current circuit breaker conforming to IS:12640:1988/ IEC 61008 on existing board/sheet including making connections, testing etc. as required. (Schneider (neo break), Siemens, HPL, GE , Standard, Indoasian(gold), Havell's, C & S, ABB (S270))				
7.1		Two pole 30 mA sensitivity				
a	3.0	25 A rating	Each		0.00	

8		P&F Recessed/ Surface mounting heavy duty horizontal type sheet steel Distribution board phophatised/ powder painted complete with suitable rating insulated copper bus bar, shorting link , neutral link, earth link and din bar,masking sheet, conforming to IS13032 & IS8623 including making internal DB terminations with copper lugs , testing etc. as required. (Make: Schneider (neo break), Siemens, GE (G2000), ABB, Legrand (Ekinoxe / Lexic))				
8.1		Double door (Three phase)				
a	2.0	6 Way	Each		0.00	
9		P&F metal clad industrial plug top & socket unit with pin and sleeve type contact on porcelain/ bakelite base in sheet steel enclosure (without MCB) including making connections with lugs, testing etc.as required.(Make: Siemens, L&T(Hager), GE, Legrand, Schneider, ABB)				
9.1		Single / Double Pole (Three pin)				
a	8.0	20 A	Each		0.00	
9.2		Three / Four pole (Five pin)				
a	4.0	30A-32A	Each		0.00	
10		P & F following modular accessories made out of unbreakable and fire retardant poly carbonate with silver contacts including making connections testing etc. as required (Make: Legrand (Myrius), ABB (Classic Luminia), Anchor (Wood), Schneider (Opale), Philips, Havell's (Crabtree))				
10.1	10.0	6 A one way switch	Each		0.00	
10.2	70.0	16 A one way switch	Each		0.00	
10.3	20.0	6 A 3 pin shuttered socket	Each		0.00	
10.4	60.0	16 A 6 pin shuttered socket	Each		0.00	
10.5	2.0	RJ-11 telephone jack single two line	Each		0.00	
10.6	4.0	RJ-45 computer jack with shutter	Each		0.00	
10.7	16.0	5 step fan regulator 2 Module	Each		0.00	
10.8	6.0	Blanking plate	Each		0.00	
11		P & F following size mounting grid plates with cover plates. (Make: Legrand (Myrius), ABB (Classic Luminia), Anchor (Wood), Schneider (Opale), Philips, Havell's (Crabtree))				
11.1	6.0	3 Module	Each		0.00	
11.2	30.0	5/6 Module	Each		0.00	
11.3	3.00	8 Module	Each		0.00	
12		P & F following size hot dip galvanized M.S. box with earthing terminal in recess/ surface suitable for modular accessories as required. (Make: Legrand (Myrius), ABB (Classic Luminia), Anchor (Wood), Schneider (Opale), Philips, Havell's (Crabtree))				
12.1	6.0	3 Module	Each		0.00	
12.2	30.0	5-6 Module	Each		0.00	
12.3	3.00	8 Module	Each		0.00	
13		P/Laying P.V.C. / XLPE insulated & P.V.C. sheathed cable of 1.1 KV grade with aluminium conductor of IS:1554 P-I / IS :7098 P - I of Group 1 of approved make in ground as per IS:1255 including excavation of 30cmx75cm size trench, 25 cm thick under layer of sand, IInd class bricks covering, refilling earth,compaction of earth, making necessary connection, testing etc. as required of size. Make:- Gloster ,CCI, Finolex, polycab havell's				
13.1		35.0 Sq.mm				
a	80.0	3.5 core Armoured	Mtr.		0.00	
13.2		50.0 Sq.mm				
a	80.0	3.5 core Armoured	Mtr.		0.00	
14		Supplying and making one end termination with heavy duty single compression brass gland SIBG type, heavy duty aluminium lugs duly crimped with crimping tool, PVC tape etc for following size of Armoured PVC insulated & PVC sheathed/ XLPE aluminium conductor cable of 1100 volt grade as required of size.				
14.1	2.0	3.5 x 35.0 sq.mm	Set		0.00	
14.2	2.0	3.5 x 50.0 sq.mm	Set		0.00	

15	1.0	Plate Earthing as per IS:3043 with copper Earth plate of size 300mm x 300mm x 3.0mm by embodying 3 to 4 mtr. below the ground level with 25 mm dia. G.I. 'B' class watering Pipe including all accessories like nut, bolts, reducer, nipple ,wire meshed funnel, and C.C. finished chamber covered with hinged type with locking arrangement C.I. Cover, C.I. Frame of size 300mm x 300mm complete with alternate layers of salt and coke/charcoal, testing of earth resistance as required. (Make BSR Group-1)	Set		0.00	
16		S & Laying following size earth wire/strip in horizontal or vertical run in ground/surface/recess including riveting, soldering, saddles, making connection etc. as required.				
16.1	20.0	8 SWG G.I. (Hot Dipped) Wire	Mtr.		0.00	
17		P&F of Heavy duty capacitor start, Double ball bearing 900/1400 RPM single phase ISI marked Exhaust fan,IS:2312 marked in existing opening including making connections testing etc. as required. (Almonard, CG, Khaitan, Bajaj, Usha, Orient, , Havell's,Polar).				
17.1	8.0	450 mm sweep(900/1400 RPM)	Each		0.00	
18	48.0	P & F extra down rod of 15 mm dia . ERW (Electrical resistance welded) of 1.6mm nominal thick medium duty steel pipe including cutting, threading, drilling, fixing quarter pin etc as reqd.	Mtr.		0.00	
19		P & F of IP20 LED Recessed / Surface Mounted, Round / Square Non-Dimmable Downlight with die-cast aluminum housing & Heat Sink for heat dissipation, high purity reflector with external driver having efficiency > 85% and in compliance to IEC standards. Power Consumption of ≤ 7W/ 10W / 15W / 18W with ~ 500 / 750 / 1100 / 1250 lumens, System Lumen efficacy of 70 lm / watt output suitable to replace 1x18W / 2x18W / 2x 26W CFL Downlights, life time of 50000 Burning Hours with 70% of initial Lumen maintained. CCT 3000°K , 4000°K & 6000°K. Fixture shall be CE compliance.Make:- Philips, Bajaj				
19.1		Recessed Mounting				
a	20.0	LED Downlight 14/15W, Gr.I	Each		0.00	
20		P & F of IP20 LED ceiling / recessed / suspended mounting light fixture made from CRCA sheet steel housing, high purity / transmissivity diffuser for uniform light distribution. High efficiency driver electronics having efficiency > 85% and in compliance to IEC standards (Integral with light fixture). Power Consumption of 40W / 50W / 60W ~ 3000/3300/4200 lumens, System lumen efficacy of 70 - 80 lm/Watt output suitable for 2x36WFTL / 2x36W CFL / 3x36W CFL light fixtures, life time of 50,000 burning hours with 70% initial lumens maintained. CCT 3000°K, 4000°K & 6000°K. Fixtures shall be CE compliance.				
21		Recessed Mounting				
a	32.0	36W LED light fixture 2'x2' with acrylic / prismatic front cover.	Each		0.00	
22	50.0	Supply , Drawing and Testing of 4 pair, 24 AWG UTP Cat 6 Cable as per latest ammendments of TIA /EIA 568 B.2-1 Specifications in existing MS/PVC Conduits including making connections to Information outlets and Patch Panels with ferruling at both ends for identification with necessary tools for punching, stripping, crimping and testing required. Amp, Avaya, Molex, Panduit, Dax	Mtr.		0.00	
23	4.0	Supply and Installation of Information outlets made of high impact plastic body ABS FR Grade with spring loaded collapsible shutters in jack Recess, suitable for Cat 6 application complying to latest ammendments EIA/ TIA 568 B.2-1 Specifications in existing modular /MS Boxes along with necessary connections as required. Amp, Avaya, Molex, Panduit, Dax	Each		0.00	
Total Part C in Rs.					0.00	
Total A+B+C in Rs.				0.00		