

**TELANGANA STATE
EDUCATION & WELFARE INFRASTRUCTURE DEVELOPMENT CORPORATION
(AN ENTERPRISES OF GOVT. OF TELANGANA)
DISTRICT COLLECTORATE PREMISES :: NAMPALLY STN.ROAD:: HYDERABAD**

From
A.Ravinder, B. Tech.,
Executive Engineer,
TSEWIDC, Hyderabad.

To
The Principal,
BJR Degree College,
Narayanguda, Hyderabad.

Lr.No. /HD/EE/EWIDC/HYD/2021

Dated: 24 -03-2021

Sir,

Sub: TSEWIDC – Hyd. Division – Works – Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad - Submission of Modified Estimate for obtaining approval- Request - Reg.

Ref: Instructions of the Commissioner, Collegiate Education, Telangana, Hyderabad
Dt: 20-03-2021

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With reference to the subject cited, it is to inform that as per the instructions issued by the Commissioner, Collegiate Education, Telangana, Hyderabad, the Modified Estimate is hereby prepared for the following work with solar roofing 50KW load with a designed load capacity of 40KW as reported by the Principal BJR Degree College, Narayanguda, Hyderabad for which tenders have been already called with VRCC Roofing and is herewith submitted as mentioned below.

S.no	Description	Amount
1	Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad. (Civil Works)	Rs. 50.34 Lakhs
2	Supply & providing of ATUM solar roof VIL-325P Panels at BJR Degree College, Narayanguda Hyderabad	Rs 29.66 Lakhs
	Grand Total	Rs 80.00 Lakhs

Hence, the Principal, BJR Degree College, Narayanguda, Hyderabad is hereby requested to obtain approval from the competent authority for taking up the work..

Encl: Estimate (01) No.

Yours faithfully,


Executive Engineer
TSEWIDC, Hyd.

Copy submitted to the Commissioner, Collegiate Education, Telangana, Hyderabad for favour of kind information

Copy submitted to the Chief Engineer, TSEWIDC, Hyderabad for favour of kind information

SPECIFICATION REPORT

The Specification report accompanying the detailed estimate for Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad.

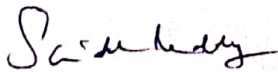
Estimated Cost: Rs. 80.00 Lakhs.

The Commissioner, of Collegiate Education, Telangana, Hyderabad has Accorded the Administrative Sanction for the work "Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad".


Accordingly, the site has been inspected and prepared the detailed estimate with the following provisions:

1. Demolition including stacking of serviceable materials and disposal of
2. Brick Masonry in superstructure with CM (1:8) prop: using Fly ASH Bricks
3. Reinforced Cement Concrete M 20 Design Mix Lintels, Sunshades.
4. Roofing will be provided with 0.5mm thick galvanized / pre painted G.I.
5. Supplying fabricating and fixing in position all heavy steel works like trusses
6. Supply and Fixing MS Pipe 100x100x4mm thick square hollow section
7. Supply and Fixing MS Purlins 96x48x3.20mm thick square hollow section
8. Supply and Fixing of Door with Double leaf shutter, Door Size 1.22x2.13 mtrs
9. Providing and fixing of Casement/ Open able Windows made of pre-painted steel
10. Provision made for Electrification
11. Provision for Atum Solar Roof
12. Provision for GST @ 12%, PS Charges @ 5%, QC Charges @ 0.50%, LS for unforeseen items.

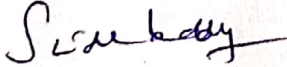
The estimate is prepared duly adopting the Rates of the current SSR 2019-20 and worked-out to Rs 80.00 (L).


Asst. Engineer
Hyderabad



Dy. Executive Engineer
Hyderabad


Executive Engineer
Hyderabad

Name of the Work: Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad.		
General Abstract		
Sl. No.	Description	Estimated Cost
Part - A		
1	Fourth Floor	4493846.00
2	Electrification	520697.00
	Sub Total	5014543.00
	Less Tender Premium 14.61%	-732625.00
	Sub Total	4281918.00
3	Add GST @ 12% Civil Works	513830.00
4	Add PS Charges @ 5%	214096.00
5	Add QC Charges @ 0.50%	21410.00
6	LS towards unforeseen items.	2626.00
	(Part - A) Grand Total Civil Work	5033880.00
Part - B		
1	Atum Sub Estimate	2401716.00
	Sub-Total	2401716.00
2	Add GST @ 18% Solar Panel Works on Sub Estimate (Rs. 2401716/-)	432309.00
3	Add PS Charges @ 5%	120086.00
4	Add QC Charges @ 0.50%	12009.00
	(Part - B) Grand Total	2966120.00
	Grand Total (Part - A + Part - B)	8000000.00


Asst. Engineer,
TSEWIDC, Hyd.


Dy. Executive Engineer,
TSEWIDC, Hyd.


Executive Engineer,
TSEWIDC, Hyd.

Name of the Work: Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda, Hyderabad.

Sl. No	Description	Fourth Floor					Qty	Rate	Amount
		No.s		Measurements					
		3	4	5	6	7			
1	Demolition including stacking of serviceable materials and disposal of unserviceable materials within 100 metres lead for Brick Masonry in Cement Mortar including cost and conveyance of all materials to site, all labour charges, sales and other taxes on all materials etc., complete for finished item of Brick	1	2	44.14	0.23	1.05	21.31		
	Dummy Columns	1	2	17.44	0.23	1.05	8.42		
		2	22	0.75	0.60	1.05	20.79		
							50.52		
							51.00	254.85	12997.00
								1 cum	
2	Brick Masonry in superstructure with CM (1:8) prop: using Fly Ash Bricks of size 290x225x140mm with compressive of 50 Kgs / Sqcm from approved source including cost and conveyance of all materials like cement, sand, fly ash bricks, water etc., to site, including sales & other taxes on all materials, all operational, incidental and labour charges such as mixing cement mortar, constructing masonry, scaffolding charges, lift charges, curing, etc., complete but excluding seigniorage charges for finished item of work. (APSS No. 501 & 504).								
	Brick Above Lintel	2	8	4.35	0.23	3.05	48.82		
	At St Case	1	2	5.80	0.23	3.05	8.13		
		1	2	3.05	0.23	3.05	4.27		
	Sides	2	2	6.00	0.23	3.05	16.83		
	Lift Walls	1	4	2.35	0.23	3.05	6.59		
	Brick Below Lintel	2	8	4.35	0.23	3.05	48.82		
	At St Case	1	3	5.80	0.23	3.05	12.20		
		1	2	3.05	0.23	3.05	4.27		
	Sides	2	6	6.00	0.23	3.05	50.50		
	Ded of Doors	-1	12	1.22	0.23	2.13	-7.17		
	Ded of Windows	-1	36	1.82	0.23	1.37	-20.64		
	Ded of Ventilator	-1	12	1.22	0.23	0.45	-1.51		
		-1	36	1.82	0.23	0.45	-6.78		
							164.33		
						Or Say	164.50	9326.35	1534185.00
								1 cum	
3	Reinforced Cement Concrete M 20 Design Mix (by weigh batching) using 20mm size (SS5) hard blasted granite machine crushed graded metal (Coarse aggregate) from approved quarry, using a minimum quantity of 350 kgs. of cement per 1 cum of concrete including cost and conveyance of all materials like cement, fine aggregate (Sand), coarse aggregate, water etc., to site and cost of all materials including centering using Cashewrina Ballies and Wooden runners & staging including all bracings, cross members etc., shuttering, machine mixing, laying concrete, lift charges, curing etc., complete but excluding cost of steel and it's fabrication charges but excluding seigniorage charges for finished item of work (APSS No. 402 & 403)								
	a) for lintels								

Sl. No	Description	Nos		Measurements			Qty	Rate	Amount
				Length	Breadth	Depth			
1	2	3		4	5	6	7	8	9
	over door D2	1	18	4.15	0.23	0.15	2.57		
	over windows	1	18	4.15	0.23	0.15	2.57		
							5.14		
							Or Say	5.20	15239.15
									79244.00
								1 cum	
b)	-do- for Sunshades of 0.6mt wide and 0.0625mts thick								
	windows	1	18	1.82	0.60		19.65		
							19.65		
							20.00	1117.85	22357.00
								1 Sqm	
4	Roofing: - Roofing will be provided with 0.5mm thick galvanized / pre painted G.I. profiled sheets fixed to the purlins with 14 size self drilling screws with neoprene washer. Side laps are stitched with self tapping / drilling screws. End laps are to be sealed with 25x3 mm Butyl tape. The sheets are provided with anti capillary groove								
	For Rooms	1	1	48.00		15.50	744.00		
	Ded of Solar Sheets	-1	123	1.97		1.00	-242.31		
							501.69		
							Or Say	502.00	823.71
									413502.00
								1 Sqm	
5	Supplying fabricating and fixing in position all heavy steel works like trusses, stanchions, heavy beams and gutter (by using MS tubes and pipes) including cost of welding rods, power charges, erecting in positions and fixing by using chain pulley blocks derek pole arrangements and cranes, etc complete.								
	Trusses	1	1	12102.00			12102.00		
							Or Say	12102.00	127.25
									1539980.00
								1 Kg	
6	Supply and Fixing MS Pipe 100x100x4mm thick square hollow section including Labour Charges for fixing complete including cost and conveyance of all materials to site, sales and other taxes, all labour charges etc., complete for finished item of work								
	Verticle Poles	2	10	3.05			61.00		
							Or Say	61.00	1183.80
							Rmt	1 Rmt	72212.00
7	Supply and Fixing MS Purlins 96x48x3.20mm thick square hollow section including Labour Charges for fixing complete including cost and conveyance of all materials to site, sales and other taxes, all labour charges etc., complete for finished item of work								
	Purlins	1	1	258.00			258.00		
							Or Say	260.00	677.90
							Rmt	1 Rmt	176254.00

Sl. No.	Description	No.s	Measurements			Qty	Rate	Amount
			Length	Breadth	Depth			
1	2	3	4	5	6	7	8	9
###	Supply and Fixing of Door with Double leaf shutter, Door Size 1.22x2.13 mtrs with Medium teak wood Frame of sections size 75mm x 100mm with Flush Door Shutter Solid Bond Wood black board type with commercial ply on both faces of 35mm thick including cost of fixtures such as MS Powder coated Tower Bolts 250mm long 2 Nos. MS Powder coated Handles 150mm long 2 Nos. 300mm long MS Powder coated Aldrops 1No. 125mm long MS Powder coated butt hinges 6Nos. 300 mm long MS Powder coated Flat latch 1No. MS Powder coated heavy Door stoppers 2 Nos. MS Hold fasts 6Nos. Sales and Other Taxes cost and conveyance of all materials to site all Labour charges such as Fixing of Door Frame on shutter Fixing in position with Hardware fixtures etc							
	All Rooms	1	9			9.00		
						9.00	12267.00	110403.00
###	Providing and fixing of Casement/ Open able Windows made of pre-painted steel as per IS 513 of 0.58 mm thick galvanized as per IS 277, finish painted with a polyester paint and section for outer frame of 48 x 50 mm, centre mullion of 48 x 50 mm, section for shutter of 48 x 25 mm and the fixed glass beading section should be 12 x 12 mm and the outer frame and mullions to have rebate for glazed shutter with a 20 mm provision for guard bars/grills. handle, stay, 2 nos. of stainless steel heavy duty pivot hinges provided per shutter and windows fitted with 0.5 mm thick Galvalume corrugated sheet with rubber gaskets including fixing the frames in concrete/masonry wall by means of self expanding screws, Including 10mm Square guard bars with 6" (152.4mm) pitch etc.. complete Centre fixed both ide open able shutter window for sizes							
	windows of size 1.50x1.22	1	36	1.82		1.35	88.45	
						Or Say	88.50	6019.35
							1 Sqm	
						Second Floor Total		4493846.00

S. S. S.

Asst. Engineer,
TSEWIDC, Hyd

R. S. S.

Dy. Executive Engineer,
TSEWIDC, Hyd

For/Engg.

Executive Engineer,
TSEWIDC, Hyd

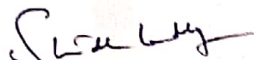
**Name of the Work: Construction / Creation of New Facilities in B.J.R. Degree College,
Narayanguda, Hyderabad.**

SUB ESTIMATE FOR PROVIDING ELECTRICAL ARRANGEMENTS

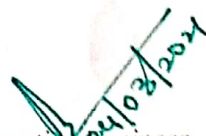
S.n	Description	No	L	B	D	Qty	Rate	Amount
CONDUIT PIPE								
1	Supply and Fixing of ISI 25mm outer dia heavygrade, FRLS with IS:9537 part 3 regid PVC pipe. concealed in Roof Slabs with all required accessories including masonry work and labour charges etc., complete. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / MillionPlast / Precision							
	Carridor	2	1	44.00			88.00	
	Class Rooms	2	9	18.90			340.20	
	Cross Room	2	9	7.01			126.18	
	Carridors	2	6	3.05			36.60	
	For Main	2	1	14.00			28.00	
		2	1	8.00			16.00	
		2	1	2.00			4.00	
	For Bends	2	36	0.30			21.60	
		2	36	0.45			32.40	
	For meter	2	7	0.91			12.74	
							705.72	
							706.00	67.30
								47514.00
								1 Rmt
2	Supply and fixing of concealed box PVC/MS with hook for fan Supply and fixing PVC / MS galvanised Fan hook box with hook including all Labour charges etc., complete. .							
	For Each Room	9	8				72.00	
							72.00	
							72.00	154.75
								11142.00
								1 Each
3	Supply and Fixing of ISI 25mm outer dia mediumgrade, FRLS with IS:9537 part 3 regid PVC pipe. concealed in wall with all required accessories including masonry work for light, fan and separate plug point with 8 or 9 Module Hot dip galvanized Metal Box including all labour charges etc., complete. Makes : Sudhakar / Goldmedal / Modi / AKG / VIP / MillionPlast / Precision							
	For Boards	9	9	2.4			194.40	
	For Pts	9	3	0.75			20.25	
		9	16	0.52			74.88	
		9	3	0.63			17.01	
	For Carridor Board	2	2	0.88			3.52	
	For meter	2	1	0.35			0.70	
							310.76	
							311.00	75.75
								23558.00
								1 Rmt

S.n	Description	No	L	B	D	Qty	Rate	Amount
4	Supply and run of 2 of 2.5 Sq mm PVC F.R.L.S. / HFFR P.V.C. insulated flexible copper cable 1100 V grade as per IS: 694 / 1990 specifications and 1 run of 1.00 Sq mm F.R.L.S. / HFFR P.V.C. insulated flexible copper cable 1100 V grade as per IS: 694 / 1990 specifications in the existing conduit pipe for run of mains from main panel board to TPN DB'S with pin type lugs and connection. Makes of Wires : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&T / V-Guard.							
	For Carridor	2	1	44.00				
	For Room 1	3	9	25.00			88.00	
		3	9	15.50			675.00	
		3	9	12.00			418.50	
							324.00	
							1505.50	
							1505.50	
							83.90	126311.00
								1 Rmt
5	Supply and run of 2 of 4 Sq mm F.R.L.S. / HFFR P.V.C. insulated flexible copper cable 1100 V grade as per IS: 694 / 1990 specifications and 1 run of 2.50 Sq mm F.R.L.S. / HFFR P.V.C. insulated flexible copper cable 1100 V grade as per IS: 694 / 1990 specifications in the existing conduit pipe for run of mains from main panel board to TPN DB'S with pin type lugs and connection Makes of Wires : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&T / V-Guard.							
	From Old Building to New Building	2	2	75.00			300.00	
							300.00	
							300.00	
							131.60	39480.00
								1 Rmt
6	Wiring with 2 runs of 14/0.3mm (1.0 Sq.mm) Fire Retardant Low Smoke (FRLS) / HFFR P.V.C. insulated 1100 V Grade as per IS: 694 / 1990 specification for flexible copper cable (ISI MARK) in existing pipe with 6A 1 way modular switch, Ceiling rose including all labour charges etc., complete for light, bell, fan and exhaust fan points in Non-Residential Buildings Makes of Wires : Finolex / RR kabel / Havells / APAR EBXL / KEI / L&T / V-Guard. Makes of Switches : Legrand Myrius / Crabtree Verona / Million / Logus / Gold Medal Curve / Anchor Roma viola / CPL / GreatWhite / Vimal / GM Four-Five / HPL / L&T / Salzar / Stanio							
	Room 1	9	20				180.00	
	St Case	2	8				16.00	
	Carridor	2	8				16.00	
							212.00	
							212.00	
							475.00	100700.00
								1 Pt
7	Supply and fixing of 6A 3/2 pin Modular wall plug socket with shutter and 6A 1 way modular switch control on a common switch board with earth continuity including wire leads, earth connections along with all labour charges etc., complete. Makes of Switches : Legrand myreus / Crabtree verona / Gold Madel curve / Million / Logus Anchor Roma viola / Great White / CPL / Vimal / GM four-							
	Room	9	5				45.00	
	Carridor	2	4				8.00	
							53.00	
							53.00	
							220.35	11679.00

Sl. No	Description	No	L	B	D	Qty	Rate	Amount
	FIXTURES							
1	Supply and fixing 4 WAY TPN Distribution board with IP-43 protection (Metal Door) as per IS 13032 and suitable for 1 No. 3 phase ELCB / RCCB / FP Isolator as incomer and 12 Nos 10kA 10-32 A SP MCBs as outgoing goings including internal connection and labour charges for flush mounting etc., complete. Make: Legrand / Schneider Seimens L & T							
	For Rooms	1	4				4.00	
							4.00	7172.50
								28690.00
								1 Each
8	Supply and Transportation of <u>3600</u>Edge lit, 2' x 2' (600mm x 600mm) slim panel LED luminaire Square Housing Made of Aluminum alloy with corrosion resistant powder coat, with high efficiency acrylic wide diffuser, with wide operating voltage range, Power factor > 0.9, Surge protection > 2KV, System efficacy of > 100 lumens/watt, CCT: 3000K - 6500K as desired by the department, CRI > 80, and THD is less than 15% with non integrated driver etc., complete with 50,000 burning hours with BIS Certification. LUMINAIRE MAKE : Phillips / OSRAM / GE Venture / Wipro / Crompton / Bajaj / Havells / Jaquar / IB LED / Panasonic / Halonix / HPL / Syska / Eveready / Surya / Keselec							
	For Rooms	9	4				36.00	
							36.00	3656.20
								131623.00
								1 Each
								520697.00


Asst. Engineer,
TSEWIDC, Hyd


Dy. Executive Engineer,
TSEWIDC, Hyd


Executive Engineer,
TSEWIDC, Hyd

Sub Estimate

**Providing of ATUM solar roof VIL-325P Panels including MS Structure
at BJR Degree College, Narayanguda Hyderabad**

Sl. No	Description	No.s		Measurements			Qty	Rate	Amount
				Length	Breadth	Depth			
1	2	3	4	5	6	7	8	9	
1	Supply of ATUM solar roof panels 72cells ≥325wp SPV Panels Specification: 1975 x 1005mm, 17mm thick (including 10mm fibre cement board integrated) Make: Visaka Industries Ltd. (ATUM)	1	1	123.00			123.00		
							123.00	10091.25	1241223.75
								1 Each	
2	Supply of ALUMINIUM T-PROFILE(4mtr) for fixing ATUM solar roof panels	1	1	129.00			129.00		
							129.00	345.00	44505.00
								1 Each	
3	Supply PU SEALANT SAUSAGES (600 ml), for fixing the ATUM solar roof panels. Make: 3M 540	1	1	184.50			184.50		
							184.50	403.65	74473.43
								1 Each	
4	Supply of self drilling screws for fixing ATUM solar roof panels	1	1	1845.00			1845.00		
							1845.00	3.80	7011.00
								1 Each	
5	Labour Charges for fixing ATUM solar roof panels	1	1	123.00			123.00		
							123.00	690.00	84870.00
								1 Each	
6	PPGI integrated V Board (dummy panels)	1	1	20.00			20.00		
							20.00	2875.00	57500.00
								1 Each	
7	SUPPLY OF SOLAR GRID TIED INVERTER 40 kw three phase grid tied inverter Make: Growatt / Equivalent	1	1	1.00			1.00		
							1.00	300000.00	300000.00
								1 Each	
8	DCDB: 1 NO (4 IN& 4 OUT) Make: Siemens	1	1	1.00			1.00		
							1.00	45000.00	45000.00
								1 Each	

