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.

Executive Engineer
TSEWIDC, Hvd.

Yours faithfully.

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

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 Engine Hyderabad

	e of the Work: Construction / Creation of New Facilities College, Narayanguda, Hyderabad.	
Sl. No.	General Abstract	To all Conf
	Description	Estimated Cost
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
3.1	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, TSEWIDE, Hyd. Executive Engineer, TSEWIDC, Hyd. Name of the Work: Construction / Creation of New Facilities in B.J.R. Degree College, Narayanguda,
Hyderabad.

SI.	Description		Fo	urth Floor				or a light of the late of the	A SELECTION OF THE PARTY OF THE
No		No),5	Mea	suremen		Qty	Rate	Amount
1	2			Length	Breadth	Depth	and the second s		9
1	Demonition including stacking of care		3	4	5	6	7	8	The state of the s
a.	Demolition including stacking of service unserviceable materials within 100 met Mortor including cost and conveyance charges, sales and conveyance	eable	materi	als and dis	posal of				
	meluding cost - 1	Co ICA	a tor i	STICK IVERSO	nry in Cei	nent.			
	charges, sales and other taxes on all ma Brick	of all	materi	als to site.	all labour				
	Brick Brick	terials	ctc., c	omplete fo	r finished	item of			
		1	2	44.14	0.23	1.05	21.31	Marie Control of the	The state of the s
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	many Columns	2	22	0.75	0,60	1.05	20,79	SHALL KING VICTORIAN CO.	WE SHE AND AND SHE WAS A S
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	including cost and conveyance of all ma	aterials	: like a	rement car	ol fluaris	briate			
	water etc., to site, including sales & oth	her fav	es on	all mataria	la all asii	oriens!			
	incidental and labour charges such as m	ivian	es on	t manteria	is, an oper	ational,			e de la companya de l
	masonry scaffolding charges life charge	nxing (.i	t mortar, c	onstructin	g			1
	masonry, scaffolding charges, lift charg	es, cui	ing, e	ic., comple	te but exc	luding			and the state of t
	seigniorage charges for finished item of Brick Above Lintel	work.	(APS	S No. 501	& 504).	7 (16	10.00		
	At St Case	2	8	4.35	0.23	3.05	48.82		
	THIST CLISE	-	2	5.80	0.23	3.05	8.13		
	Sides	1	2	3.05	0.23	3.05	4,27	An among a product at the product of	
-	Lift Walls	2	2	6.00	0.23	3.05	16.83	- Perconstanting of the State o	
-	Brick Below Lintel	-	4	2.35	0.23	3,05	6.59		· Upon Parish N.S. and property of the parish of
-	At St Case	2	8	4.35	0.23	3.05	48.82		
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-	Sides	1	2	3.05	0.23	3.05	4,27		
-		2	6	6.00	0.23	3.05	50.50	Commence of the last contract	
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-	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	the street street and street street	The second secon
-						1	164,33		
Arit	12					Or Say	164,50	9326,35	1534185.00
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3	Reinforced Cement Concrete M 20 Des	sign M	ix (b	y weigh ba	tching) u	sing		M. C. C. M. Landy Co., Sp. Co.	e chama at come or a contact to come (acc)
	20mm size (SS5) hard blasted granite n	nachin	e crus	hed graded	l metal (C	oarse			
	aggregate) from approved quarry, using	a mɨn	ímum	quantity o	1350 kgs	of		- 4	10
	cement per 1 cum of concrete including	cost a	nd co	wevance c	f all mate	wint.			
	like cement, fine aggregate (Sand), coa	ren an	reacted.	a water at	to all man	mais			
	of all materials including anatomics and	rse ag	gregat	e, water etc	2., to site (ind cost			
	of all materials including centering usi	ng Ca	isnewi	ina Ballies	and Woo	den			
	runners & staging including all bracings	s, cross	s mem	bers etc., s	huttering				
. 10	machine mixing, laying concrete, lift ch	arges,	curing	g etc., com	plete but				
	excluding cost of steel and it's fabricati	on cha	rges b	ut excludi	ng seignio	rage			
	charges for finished item of work (APS)	S No.	102 &	403)	- No.				
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	over door D2		18	4.15	0.23	0.15	7	8	-
Total State of the last	over windows	Manufacture of Street, or other Street,	18	4.15	0.23	0.15	2.57	White the control of the Control	
-	Antigram of the Control of the Contr	and the same of th	-	A DESCRIPTION ASSESSMENT SHOW	(/, 85.)	0.15	2.57	-	
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b)	-do- for Sunshades of 0.6mt wide	and 0.06	Sinte	thial			A production of particular products	Leum	
	windows	1	18	1.82	0.60	-	10.00		
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	G.l. profiled sheets fixed to the purl	lins with 1	4 size	solf drillin	o cossive i	with			
	neoprene washer. Side laps are stite	hed with s	olf m	mina / deill	g screws v	WILLI or Evel		1	
	laps are to be sealed with 25x3 mm	Rutyl tane	The	ghaste are	ing screw	S. End		,	
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	For Rooms		, ,	10.00					
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	oca or solal succes	-1-1	123	1.97		1.00	-242.31		
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						Or Say	502.00	823.71	413502.00
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		187				Or Say	502.00	1 Sqm	415502.00
7	Supplying tabelegating and taking in	2-					502.00		415502:00
5	Supplying fabricating and fixing in	position a	Theav	y steel wor	ks like tru	leene			415502.00
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5	stanchions, heavy beams and gutter cost of welding rods, power charges	(by using , erecting	MS tu in pos	bes and pig	es) includixing by i	isses,	502.00		410002.00
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	Description								
1		No.		Me	surement	is	Qty	Rate	Amount
1	Copply and Fixing a CD	3	-	Length	Breadth	Depth		8	9
#""	with Medium teak wood F	leaf sh	utton	D 61	5	6	7		
	with Medium teak wood Frame of section Door Shutter Solid Bond Wood black befaces of 35mm thick including cost of file Bolts 250mm long 2 Nov. Medium 1988 1888 1888 1888 1888 1888 1888 188	osis 200	oner,	Door Size	1.22x2.1.	3 mtrs			
	faces of 35mm this Line	Oard to	73111	m x 100mi	m with Flu	ish			
	faces of 35mm thick including cost of fi Bolts 250mm long 2 Nos. MS Powder c	istura-	oc wi	th commer	cial ply on	both			
	Bolts 250mm long 2 Nos, MS Powder c 300mm long MS Powder coated Aldrop	ontal t	such	as MS Pov	der coated	d Tower		The state of the s	
	300mm long MS Powder coated Aldrop butt hinges 6Nos, 300 mm long MS Powder coated heavy Door	oated F	landl	es 150mm	long 2 No	s.			
									100
							1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	cost and convenyance of all materials to of Door Frame on shutter Fixing in posi All Rooms	site all	Lab	our charge	s such as I	ixing	= 50		diam.
-	All Rooms	tion 1	1 411	lardware fi	vtures etc		-		
			,			-	9.00	100/0/00	
444	ID.					-	9.00	12267.00	110403.00
###	Providing and fixing of Casement/ Oper steel as per IS 513 of 0.58 mm thick gal	n abla V	Vind	awa mada	- C - ·	<u> </u>		1 Each	
	steel as per IS 513 of 0.58 mm thick gal with a polyester paint and section for a	vanized	Lacia	or IC 277	or pre-pair	ned		39.4	
	of 48 x 50 mm, section for shutter of 48 section should be 12 x 12 mm and 48	2 25 m	110 01	40 X 30 M	m, centre	mullion			
	section should be 12 x 12 mm and the o	utor fro	ar	id the fixed	i glass bea	ding	ll .	1 5 4	
	for glazed shutter with a 20 mm provisi	uter fra	me a	na mullion	is to have i	rebate	,		
	for glazed shutter with a 20 mm provisions, of stainless steel beave duty river.	on for g	guard	bars/grills	, handle, s	tay, 2			
	nos. of stainless steel heavy duty pivot I	ninges p	orovi	ded per shi	utter and w	vindows		19	
	fitted with 0.5 mm thick Galvalume cor	rugated	shee	t with rubl	ber gaskets	S			
	including fixing the frames in concrete/	masonr	y wa	ll by mean	s of self				
	expanding screws, Including 10mm Squ	iare gua	ard ba	ars with 6"	(152.4mn	n) pitch	,	25	
	etc complete Centre fixed both ide ope windowsof size 1.50x1.22	n able		er window	for sizes				
	Willdowsof Size 1.30X1.22	'-	36	1.82		1.35	88.45		
					-	Or Say	88.50	6019.35	532712.00
	1 1				1			1 Sqm	
	4 - 110					Sec	cond Floor	Total	4493846.00

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.

C -	SUB ESTIMATE FO	R PRO	VID	ING FLE	CTRICA	L ARR	ANGEMEN	NTS	
S.n	Description	N		L	В	D	Qty	Rate	Amount
	CONDUIT PIPE								
l	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in Roof 5 masonary work and labour charges / Modi / AKG / VIP / MillionPlast /	cluding							
	Carridor	1 2		44.00			88.00		177.
	Class Rooms	$\frac{2}{2}$	9	18.90			340.20		
	Cross Room	2	9	7.01			126.18		4,1
	Carridors	2	6	3.05			36.60		
	For Main	2	i	14.00			28.00		
		2	1	8.00			16.00		
		2	I	2.00	=="		4.00		
	For Bends	2	36	0.30	7.		21.60		
		2	36	0.45	T per		32.40		
	For meter	2	7	0.91	1 91		12.74		
					1		705.72		
						-	706.00	67.30	47514.00
								1 Rmt	
	complete		1100	Killelilali	ng all La	bour cha	irges etc.,		
	complete For Each Room	9		Killettidii	ng all La	bour cha	72.00 72.00		
				Killetitali	ng all La	bour cha	72.00	154.75	11142.00
				Killetudii	ng all La	bour cha	72.00 72.00	154.75 1 Each	11142.00
	For Each Room	9	8				72.00 72.00 72.00		11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKO	er dia r tith all parate abour	nedi requ plug char	umgrade, uired acce point wir ges etc., tillionPla	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 537 part 3 Hot dip		11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards	er dia r tith all parate abour G / VII	nedi requ plug char	umgrade, uired acce point wit ges etc., tillionPla 2.4	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 537 part 3 Hot dip s:	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKO	er dia rovith alloarate abour 9 9	8 medil requestion requestions of the second	umgrade, aired acce point wirges etc., fillionPla 2.4 0.75	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 537 part 3 Hot dip s:	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards	er dia r vith all parate abour G / VII 9	8 medil requiplug chan 3 16	umgrade, aired acce point wirges etc., fillionPla 2.4 0.75 0.52	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 537 part 3 Hot dip s:	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and sepgalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards For Pts	er dia reith all parate abour 9 9 9 9 9	8 medil requiplugge change change in the second sec	umgrade, aired acce point will ges etc., fillionPla 2.4 0.75 0.52 0.63	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 72.00 537 part 3 Hot dip s:	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards For Pts For Carridor Board	er dia rovith alloarate abour 6 / VII 9 9 9 9 2	8 medii requiplug chan 3 16 3 2	umgrade, point wirges etc., fillionPla 2.4 0.75 0.52 0.63 0.88	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 72.00 537 part 3 Hot dip s: 194.40 20.25 74.88 17.01 3.52	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and sepgalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards For Pts	er dia reith all parate abour 9 9 9 9 9	8 medii requiplug chan 3 16 3 2	umgrade, aired acce point will ges etc., fillionPla 2.4 0.75 0.52 0.63	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 72.00 537 part 3 Hot dip s: 194.40 20.25 74.88 17.01 3.52 0.70	1 Each	11142.00
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards For Pts For Carridor Board	er dia rovith alloarate abour 6 / VII 9 9 9 9 2	8 medii requiplug chan 3 16 3 2	umgrade, point wirges etc., fillionPla 2.4 0.75 0.52 0.63 0.88	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 72.00 537 part 3 Hot dip s: 194.40 20.25 74.88 17.01 3.52 0.70 310.76	1 Each	
3	Supply and Fixing of ISI 25mm outeregid PVC pipe, concealed in wall wasonary work for light, fan and segalvanized Metal Box including all I Sudhakar / Goldmedal / Modi / AKC For Boards For Pts For Carridor Board	er dia rovith alloarate abour 6 / VII 9 9 9 9 2	8 medii requiplug chan 3 16 3 2	umgrade, point wirges etc., fillionPla 2.4 0.75 0.52 0.63 0.88	FRLS wessories in the 8 or 9 complete	rith IS:9 ncluding Module :. Make	72.00 72.00 72.00 72.00 537 part 3 Hot dip s: 194.40 20.25 74.88 17.01 3.52 0.70	1 Each	23558.00

S.n	Description	No		L	В	D	Qty	Rate	Amount
4	Supply and run of 2 of 2.5 Sq mm PV	CF.F	L.	S. / HFFR	P.V.C.	line. L.	1 /7 //	IVAIC	Amount
	Iconner cable 1100 v grade as per 18: 0	194/	199	O specific	atione o	m.1.1		10-1	
	1Samm 1-3 1-3. / TIFFR P.V.C. Instit	ated t	OV	hala come	ve anlat	1100			
	per 15: 694 / 1990 specifications in the	rovie	time	conduit	al cable	1100 \$ 6	grade as		
	main panel board to TPN DB'S with	- 6.715	ung	conduit	pipe for	run of n	nains from	1	
	main panel board to TPN DB'S with	pin t	ype	lugs and	connect	ion. Mak	es of	V (2.5)	
	Wires: Finolex / RR kabel / Havells / For Carridor	APA	RF	BXL/K	EI /L&T	/ V-Gua	ırd.		
	For Room I	2		44.00			88.00		
	7 O ROOM 1	3	_9	25.00			675.00		
du la		3	9	15.50			418.50		
is the		3	9	12.00					
							324.00		
							1505.50		
							1505.50	83.90	126311.00
	i i		_					l Rmt	
5	Supply and run of 2 of 4 Sq mm F.R I cable 1100 V grade as per IS: 604 / 16	S /	LIC	ED D V C	<u> </u>				
	cable 1100 V grade as per IS: 694 / 19 F.R L.S. / HFFR P.V.C. insulated flow	300	Hr.	C	. insulat	ed flexib	le copper		
	F.R L.S. / HEFR P.V.C. insulated the	990 S	peci	lications	and I ru	n of 2.50) Sq mm		
							Wires	T.	
1)	From Old Building to New Building	ERY	1	$ \mathcal{K} \leq \mathcal{K} / \mathcal{R}_{\ell} $	T/V-Gu	ard			
	to rew banding	1	_2	75.00		- 1	300.00		
		-					300.00		
	.11						300.00	131.60	39480.00
13.3						1		I Rmt	39480.00
6	Wiring with 2 runs of 14/0 2								
	Wiring with 2 runs of 14/0.3mm (1.0 HFFR P.V.C. insulated 1100 V Grade	Sq.m	ım)	Fire Retai	dant Lo	w Smoke	e (FRLS) /		
	HFFR P.V.C. insulated 1100 V Grade flexible copper cable (ISI MARK) in	as p	er I	S: 694 / [990 spec	eification	for		
								V	
	Ceiling rose including all labour chares thaust fan points in Non-Residentia	ges e	etc.,	complete	for light	bell fo	n and		
	Roma viola / CPL / GreatWhite / Vin	al/C	: N /	Earn Eli	id Meda	Curve /	Anchor		
	Stanio	1417	TIAI	rour-rive	:/HPL/	L&T / S	Salzar /	l l	
	Room 1	9	20	1, -	T		100		
	St Case	2	8				180.00		
	Carridor	2	_		-		16.00		
	CAL CALL			1	-		16.00		
1.	A. J.		_				212.00		
		1/1	-				212.00	475.00	100700.0
	New Year	1.50	_					1 Pt	.00700.0
7	Supply and fixing of 64 2/2 min Ma.	1							
	Supply and fixing of 6A 3/2 pin Mod way modular switch control on a core	ulary	wall	plug soci	ket with	shutter a	nd 6A 1	-	
								0.	
	The reads, carm connection	10 010	. 44 /-				-		
	makes of Switches 1 Por	211171 1	171/11/	Michael Charles					, , , , , , , , , , , , , , , , , , ,
		viole	1/0	reat W/55	o /CDL	14 / UOIQ Vii! / 5	iviadel		7
- 6	Poor	, 1016	. / C	reat WIII	ic/CPL/	v imal/ C	iM four-		Ϋ́T
	Room	9	5			T	15.00		
	Carridor	1			-	-	45.00		
		1 2	1 4		1		**		-
		2	-4	48.9			8.00	-	
		2	-4				8.00 53.00 53.00		

in	Description	No		B		Qty	Rate	Amount
-	Section 2015		-	Annual Society of the Control of the	A SUPERIOR STREET	and the second second second second second	I Each	property and the second second second second second second
-	FIXTURES	A PERSONAL PROPERTY.		Marie Company of the Company of the Company	THE PERSON NAMED IN	and content stated the Sunsa where within	and the second s	The State of
T	Supply and fixing 4 WAY TPN Distr	ibution		L. ID A S IS	ratection	(Metal		
	Door) as per 18 13032 and suitable for	will No.	2 alaasa	n tras p es es / s	CCR/F	P Isolator	4.2	
	as incomer and 12 Nos 10kA 10-32 /	CONTE	3 phase	tine naint	re includ	ìne		
	internal connection and labour charge	1 31 1110	BS as on	ung gouq	esmalet	e Make:		
	Legrand / Schneider/Seimens/L&T	es for th	usn moui	img etc.,	complet	C. Marie		A STATE OF THE PARTY OF THE PAR
	For Rooms	1 11	1		-	4,00	CARL MARKET WITH A CARACTER AND A CA	Annual State of the Local State
AND DESCRIPTION OF THE PERSON			+	and a service section of the		4.00	7172.50	28690.00
	The state of the s	-	-			en de restante de la companya de la	1 Each	
			-	AND DESCRIPTION OF THE PERSON		and the same of th		
8	Supply and Transportation of 360	Ede	e lit 2' x	2' (600mr	n x 600n	nm) slim		
	panel LED luminaire Square Housin	o Made (of Alumi	num alloy	with co	rrosion		
	resistant powder coat, with high effic							
	with wide operating voltage range. F	lower fac	$tor \ge 0.9$	Surge pr	rotection	>2KV.		
	System efficacy of >100 lumens/wat	t. CCT:	3000K -	6500K as	desired l	by the		
	department, CR1 >80, and THD is le	ess than	15% with	non integ	rated dri	ver etc		
	complete with 50,000 burning hours	with Bl	S Certific	eation, LU	MINAII	RE MAKE		
	: Phillips / OSRAM / GE Venture /	Wipro / C	Cromptor	ı / Bajaj /	Havells	Jaquar /		
	IB LED / Panasonie / Halonix / HPI	. / Syska	/ Everea	dy / Surya	17			
	Keselec					1 24.00		
	For Rooms	9	-1			36.00		131623.00
					_	36.00	3656.20 1 Each	131023,00
							reach	
_								520697.00
1								

Asst. Engineer. TSEWIDC, Hyd

Dy. Executive Engineer, TSEWIDC, Hyd Executive ringincer, TSEWIDC, Hyd

Sub Estimate

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

1	Description				asurement	is Tyu		Rate	Amount
SI.		N	lo.s	Length	Breadth	Depth	Qty		9
Ti	2		3	4	5	6	7	8	
1	Supply of ATUM solar roof panels 7	72cel	ls ≥32	5wp SPV I	Panels				
The same	Specification: 1975 x 1005mm, 17m	ım th	ick (ir	cluding 10	mm fibre c	ement		1	
	board integrated) Make: Visaka Indu	strie	s Ltd.	(ATUM)					rin a y
		1	1	123.00			123.00	10091.25	1241223.75
							123.00	1 Each	124,22
								1 Each	
_	0 1 01111111111111111111111111111111111) IV 4 la a	**************************************			
2	Supply of ALUMINIUM T-PROFIL	Æ(4n	ntr) fo	r fixing AT	UM solar	1001			
	panels			120.00			129.00		
		1		129.00			129.00	345.00	44505.00
								1 Each	
		231							
2	Supply PU SEALANT SAUSAGES	(600) ml)	for fixing th	ie ATUM	solar			
3	roof panels. Make: 3M 540	(000	, 11117,	101 11111111111111111111111111111111111					
	Tool panels, Wake, 5W 540	1	1	184.50			184.50		- 4472 42
		·	_				184.50	403.65	74473.43
			1.					1 Each	
4	Supply of self drilling screws for fix	ing A	TUM	solar roof	panels	and a			
	Supply State C	1		1845.00		TA T	1845.00		
				10.0100		* 1 ₀ =	1845.00	3.80	7011.00
				.02	1.			1 Each	
_	180°-			7-					
5	Labour Charges for fixing ATUM so	lar ro	oof pa	nels				£ 1	
	Edocut Changes to D	1	l	123.00	71		123.00	690.00	84870.00
	Ir-			8 11			123.00		84870.00
								1 Each	
		 _		,					
6	PPGI integrated V Board (dummy pa	inels))	20.00	Т		20.00		
		1	1	20.00			20.00	2875.00	57500.00
				-	1 1			1 Each	
7	VI r								
7.0	SUPPLY OF SOLAR GRID TIED I	NVE	RTFR	40 kw thre	ee phase gr	id tied			
7	inverter Make: Growatt / Equivalent	112			1 p				
	inverter Make. Growatt / Equivalent	7:1	1	1.00	- 1	7	1.00		
-	13810				Y - Ma		1.00	300000.00	300000.00
	1				40			1 Each	
	1 2			П	7.1				
8	DCDB: 1 NO (4 IN& 4 OUT) Make	: Sie	mens		3 8				
11. VA	4.	1	1	1.00	2		1.00		
119	2 1 X	1					1,00		45000.00
	A A A			_ G 74 L	1		ħ.	1 Each	
Die L									

	17007			1721		Sub Tota	al	2401627.1
		1 5	T 11				Laci	
						37.71	1 Each	201124.0
		187 L	1	39.973		39.97	9200.00	367724.0
	(19,500wp)	-	1	39.975	·	39.970		
15	Installation & Commissioning for	r grid co	nnect	ed solar rooftop	system.			
		_	<u> </u>				1 Each	
_	1	<u> </u>	<u> </u>			3.00	12075.00	36225.0
	Compound material		1	3.00		3.00		
14	Supply of Earthing: 17.2mm This	ck 3Met	ers Lo	ong Copper Rod	with Carbon			
		-						
	19.						1 Each	
						1.00	11500.00	11500.0
	allera .	1	1	1.00		1.00		-10
	1.2mtr copper rod with spikes alo							
13	Supply of Lightening Arrestor: T	ype 4 Co	onven	tional Lightning	Arrester			1100
	1 7						1 Kill	
-		-	110			100.00	1 Rmt	33333.00
		+-	1	100.00		100.00	355.35	35535.00
- 1	Supply of 35 sqmm 3.5C Alumin Make: Polycab/Havells	ium Arr	noure	d Cable (ACDB	to LT Panel)	100.00		
			1					
			11			10.00	1 Rmt	7000.0
				13.00		15.00	644.00	9660.0
		Ti	1	15.00		15.00		
	Supply of 16 sqmm 4C Copper Ca /Havells	able (In	verter	to ACDB) Make	:: Polycab			
	His.						1 Kiiii	
		_				000.00	1 Rmt	41400.0
46	Signature and the second secon		-	800.00	35.7	800.00	51.75	41400.0
10	Supply of Te; 4sqlilli copper be	Cable,	Viake	800.00	113	800.00	-	
	Supply of 1C, 4sqmm Copper DC	Cablo	Maka	Polyagh / Haye	lle			
-							1 Each	
						1.00	45000.00	45000.0
- 1			<u> </u>	1.00		1.00	45000.00	45000.0

Asst. Engineer, TSEWIDC, Hyd Dy. Executive Engineer, TSEWIDC, Hyd Executive Bugineer, TSEWIDC, Hyd