

CUU/Estate Div/2019-2020/152

Estate Division
Goa University
Taleigao Plateau, Goa.
Date: 30/09/2019

To
The Finance officer,
Goa University.

Sir,
Enclosed please find FIRST AND FINAL bill in triplicate for the work
Providing new LED fixtures and focus lamps in place of old fixtures
in Boys Hostel located in Goa University Campus

alongwith M.B. No. 276

The M.B. and one copy of R.A. bill duly passed, be returned to this office record.

SECRETARY

UNIVERSITY ENGINEER

FIRST AND FINAL BILL : FORM NO.24

S.No	Description of Items	Qty	Unit	In figures	in Words	Amount
1	Wiring for circuit /submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in the (a) 2x1.5Sqmm + 1x1.5Sqmm earthwire (20mm conduit)					
		0	METRE	90.00	# NAME?	0
2	Wiring for light point/fan point /Exhaust fan point/call bell point with 1.5Sqmm FR PVC insulated copper conductor single core cable in PVC casing capping with modular switch, modular plates, suitable size modular surface box of specified Category and earthing the point with 1.5Sqmm FR PVC insulated copper conductor single core cable etc. as required. (a) Group A with Cat A Modular Accessories					
3	Wiring for circuit/Submain wiring alongwith earth wire with the following sizes FR PVC insulated copper conductor single core cable in the independent PVC casing capping of appropriate size as required (a) 2x1.5Sqmm + 1x 1.5Sqmm earthwise (20mm casing) (b) 2x2.5Sqmm + 1x 2.5Sqmm earthwise (20mm casing)	14.00	POINT	850.00	# NAME?	11900.00
		24.00	METRE	120.00	# NAME?	2880.00
		44.00	METRE	120.00	# NAME?	5280.00
4	Supplying and fixing of following sizes of rigid PVC conduit along with accessories in surface (medium)/ recess(heavy) including cutting the wall and making good the same in case of recessed conduit as required. (c) 32mm					
		0.00	METRE	75.00	# NAME?	0.00
5	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover infront including painting etc as required (b) 100mm x 100mm x60mm deep metal box					
		0.00	EACH	150.00	# NAME?	0.00
6	supplying and fixing following modular switch / socket on the existing modular (a) 5/6 A switch Cat A (d) 3 pin 5/6 A socket outlet Cat A	192.00	EACH	90.00	#NAME?	17280.00
		168.00	EACH	135.00	# NAME?	22680.00
7	Supplying and fixing modular blanking plate on the existing modular plate switch box excluding modular plate etc as required. (a) Cat A					
		192.00	EACH	20.00	# NAME?	3840.00
8	Supplying and fixing following modular base and cover plate on existing modular metal box as required (b) 4 Module Cat A					
		180.00	EACH	135.00	# NAME?	24300.00
9	Installation , earthing , testing and commissioning of pre wired flourescent fitting of all types complete with all accessories and tube etc directly on ceiling / wall including connections with 1.5Sqmm FRLS PVC insulated copper conductor single core cable and earthing etc as required.	721.00	EACH	20.00	# NAME?	14420.00
10	Installation , earthing , testing and commissioning of ceiling fan including wiring the down rod of standard length (upto 30cm) with 1.5Sqmm FRFRLS PVC insulated copper conductor single core etc. as required.	0.00	EACH	50.00	# NAME?	0.00
11	Supplying and fixing extra down rod of 100cm length G.I pipe 15cm dia heavy gauge including painting etc as required	5.40	METRE	125.00	# NAME?	675.00
12	Supply of 3 core armoured PVC/XLPE insulated pvc sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554(part I) IS:7098(part I) with latest amendments of following size (4) 3 core 10Sqmm					
		252.00	METRE	130.00	#NAME?	32760.00
13	Laying of one number PVC insulated and PVC sheathed / etc					

13 Laying of one number PVC insulated and PVC sheathhead / XLPE power cable of 1.1KV grade of size not exceeding 255sqmm direct in ground including excavation in the form of a trench as per Cable trench Drawing provided by the Engineer In charge, sand cushioning with screened sand bed of 20mm thick protective covering with bricks placed breadth wise on top of cable all over the run (the brick protection shall cover the cable and project at least 5cms over the sides of the cable) and backfilling the excavated earth without stones or hard material and making the surface proper with 15cm crown on the top complete as required

(b) in rocky strata

14 Laying of one number PVC insulated and pvc sheathhead / XLPE power cable of 1.1KV grade of size not exceeding 255sqmm in the existing RCC/HUME/STONEWARE Metal pipe etc complete as required

15 Laying of one number PVC insulated and PVC sheathhead / XLPE power cable of 1.1KV grade of size not exceeding 255sqmm on surface etc complete as required

16 Supplying and making cable end terminations with brass compression gland and copper lugs for the following sizes of 3 core PVC insulated PVC sheathed / XLPE aluminium conductor cable of 1.1KV grade , complete as required

(4) 3x105sqmm

17 Supply of surface mounted LED Batten luminaire complete with all accessories Panasonic/Havells/Philips/Jaquar make(Min 2 years replacement warranty to be provided on fixtures)

(a) 4 feet 20 Watts

(B) 2 feet 10Watts

18 Supply and Erecting of 45Watts LED streetlight luminaire with aluminium diecast body complete with all accessories including all control gear . LED Lamp 25mm 2 feet G.I bend pipe or as required Panasonic/Jaquar/Havells make (Minimum 2 years replacement warranty to be provided on fixture)

19 Supply and erecting of 48 inch (1200mm sweep) ceiling fan . Double ball bearing type complete with all accessories

(a) Cat A

20 Supply and erecting S type Stainless steel fan hook fabricated out of 10mm round bar complete as required

21 Chasing the ceiling to erect a fan hook including making good the plaster, neeru and paint complete as required(hook not included)

22 Supplying and fixing suitable size modular PVC box with modular plate and cover infront on surface or in recess including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch connection painting etc as require.

(a) Cat A

23 Providing and fixing G.I pipes complete with G.I fittings including trenching and re-filling etc(external works)

(f) 50mm Nominal Bore

(G)80MM Nominal Bore

24 Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc.as required

(a) Cat A

25 Supplying and fixing following size modular PVC box alongwith modular base and cover

note for modular switch box in recess above provided

(f) 1 or 2 Modular Cat A

17.00 METRE 200.00 # NAME? 3400.00

32.50 METRE 30.00 #NAME? 975.00

202.50 METRE 40.00 # NAME? 8100.00

2.00 EACH 200.00 # NAME? 400.00

506.00 EACH 425.00 # NAME? 215050.00

215.00 EACH 390.00 # NAME? 83850.00

10.00 EACH 3500.00 # NAME? 35000.00

11.00 NO 1800.00 # NAME? 19800.00

6.00 NO 100.00 # NAME? 600.00

6.00 NO 125.00 # NAME? 750.00

10.00 EACH 150.00 # NAME? 1500.00

18.00 METRE 200.00 #NAME? 3600.00

6.00 METRE 300.00 #NAME? 1800.00

6.00 EACH 400.00 #NAME? 2400.00

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FIRST AND FINAL BILL FORM NO.24

Item No.	Description of Work / Item	QTY	UNIT	IN FIGURES	AMOUNT	Remarks
26	Dismantaling of all types of Fluorescent tubelight fixture from wall or ceiling alongwith all accessories stacking at a suitable place andshifting at a location within suitable campus including transportation, labour, etc complete as required.	700.00	EACH	5.00	3500.00	<u>Completion Certificate</u> Certified that the work had been physically completed on 04/06/2019 and that no defects are apparent that the contactor has removed from the premises on which the work was being executed all scaffolding, surplus material and all rubbish cleaned all the dirt from all part of the building in or about which the work is to be executed. <i>30/09/19</i> <i>AE (E)</i>
E.I 1	S/F cable junction box of thermoplastic ,IP55 Hensel make of following size	10	nos	352/-	3520.00	
	(a) 98x98x52mm	1	nos	585/-	585.00	
	(b) 139x119x70mm					
	Subtotal				520845.00	
	Add contractor's quoted percentage 12% GST above except on Extra items				62502.00	
	Total Amount				583347.00	
	Say Rs.					

on Rs. 5,16,740/-

in final settlement of the Work

Measurement recorded by
M.Book No 276 Pages

V.P. Bangodker
01 to 08

Payee's

Stamp
LOTUS & SONS
NEW MARKET,
MARGAO-GOIA

(X) Officer preparing the Bill ()

Pay by cash/cheque Rs.() Rupees.
Dated:-

Officer authorising payment: ()

Dated
Witness Signature

Paid by me Cheque No. dated
by cash

Dated initials of the person making payment

(X) This signature is necessary only when the officer preparing the bill is not officer

authorising payment

30/09/19
AE (E)

(DUPLICATE COPY)

1- ACCOUNT OF WORK EXECUTED

Advance Payment for work Not yet Measured			Item No as per accepted agreement and/or estimate	Description of item work executed	Unit	Rate	Quantity executed up-to-date as per measurement book	PAYMENT ON THE BASIC OF ACTUAL MEASUREMENTS		Remarks (with reason for delay in adjustments shownol 1)
Total as per previous bill	Since previous bill	total up to date						Up to date	Since previous bill	
1	2	3	4	4(a)	5	6	7	8	9	10
			1	Supplying and erecting LED street light fitting 100W , including lamp , with PF=0.95 class IP65 above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FGODF/FLS-2 (CAT-A)	Each	9000.00	163	14,67,000.00	0	
			2	Supplying and erecting street light made from 40mm dia or as required for above fitting , B class G.I. pipe 1.2m in total length complete as per specification no.FG-BKT/WB	Each	300.00	163	48900.00	0	
			3	Supply and Fixing of HDGI L.A./S.A clamps suitable for 9mtrs RCC pole complete with 40x5mm strip nuts and bolts with spring washers	Kilograms	90.00	692.2	62298.00	0	
			4	Supply of 3 core armoured PVC/XLPE insulated , PVC sheathed copper conductor cable of 1.1 KV grade with (S) mark conforming IS: 15544 part I) , IS:7098 (part I) with latest amendments of following size:	Meters	115.00	1018.5	117127.50	0	
				3 core x 2.5 sq.mm	Each	10.00	163	1630.00	0	
			5	Dismantling of existing fluorescent fittings of any type and size	Each	1200.00	165	198000.00	0	
			6	Providing and fixing RCC pole mounting Hensel/Trinity/National brand outdoor type IP 65 rated FRP Junction box of minimum size 250x200x120mm, with 5 nos of connectors suitable for 25sqmm cable complete with end caps and end plates , 1 no of DIN channels suitable for fixing the connector and 5 A SP mcb complete with fixing screws etc						
			7	Supplying and making cable end terminators with brass compression gland and aluminium lugs for following sizes of 3 Core PVC insulated PVC sheathed /XLPE aluminium conductor cable of 1.1 KV grade , complete as required	Each	130.00	152	19760.00	0	
				(1) 3x1.5 /2.5 sq.mm						

1	2	3	4	4(a)	5	6	7	8	9	10
				Extra Items						
			E.I.-01	Providing and Fixing 4mm dia copper wire on surface or in recess for loop earthing along with existing surface or recess conduit sub main wiring or cable as required	Mtr	80.76	900.60	72732.45	0	
			E.I.-02	Supply and laying 6SWG GI wire at 0.5m below ground level for conductor earth electrode i/c soldering etc as required	Mtr	30.51	219.2	6688.00	0	
			E.I.-03	Earthwork in excavation by mechanical means /Manual means in foundation pipeline trenches drain (not exceeding 1.5m in width or 10sqm on plan) ie .dressing of sides and ramming of bottoms. lift upto 1.5m.						
			(a)	All Kinds of Soil	Cum	236.00	18	4248.00	0	
									Total	19,98,384.00
									GST 12%	239806.00
									Grand Total	2238190.00

(D)	(B)	Total value of work done to date (A)	2238190	2
Figures (D) in words		Deduct value of work shown on previous bill with GST		
		Net value of work since previous bill (F)		
		Figure (F) in words: Twenty two lakhs thirty two thousand five hundred twenty five only		

COMPLETION CERTIFICATE

Certified that the work has been physically completed on 22/04/2021 And that no defects are apparent and
~~Certified that the work has been physically completed on 10/08/2021 And that no defects are apparent and~~
 that the contractor has removed from the premises in which the work was being executed all
 scaffolding surplus material and rubbish and clean all the dust from all parts of the building in upon
 or about which the work was to be executed.

Certificates and Signatures

The measurement on which are based the entries in Columns 4 to 9 of account I were made by Shri
 V.P. Bandodkar on 28/05/2021 and are recorded at page 54 to 57 of measurement book no 276
 Signature V.P. Bandodkar Rank Junior Engineer

Wherever there is entry in column (I) On the basis of actual measurement the whole of the amount
 previously paid without detailed measurement should be adjusted
 by a minus entry column 2 equivalent to the amount shown in column I so that the "Total upto
 date" in column 3 may become "NIL"

Where there are two or more entries in column 9 relating to each sub-head of estimate they
 should in the case of works the accounts of which are kept by sub-heads be totalled and the total
 recorded in column 10 for posting of work Abstract

V.P. Bandodkar
10/08/2021
Assistant Engineer
Goa University
Taleigao Plateau Goa

[Signature]
UNIVERSITY ENGINEER
GOA UNIVERSITY

GU/9/2018-19/Engg. & Tech Div/ 180

Date: 20/02/2019

To,
M/S. LOTLIKAR & SONS.
Pimpalkata,
New Market,
Margao-Goa-403601

Sub: Providing New Led Fixtures and Focus Lamps in place of Old Fixtures in Boys Hostel Located in Goa University.

Ref. 1) Enquiry Ref. GU/9/2018-2019/Engg. & Tech Div/180 dated 03/01/2019
2) Your tender dated 22/01/2019.

Sir,


Your tender for the work mentioned above has been accepted at your tendered amount of ₹ 5, 11,050.00 (Rupees Five lakh Eleven thousand fifty only) which is 13.57 % below the estimated cost of Rs. 5, 91,321.00 (Rupees five Lakh ninety one thousand three hundred twenty one only).

You are requested to submit the performance guarantee of ₹ 25,553.00 (Rupees twenty five thousand five hundred fifty three only) within eight days of issue of this order. The performance guarantee shall be in the prescribed form as provided in clause 1 of the general conditions of the contract for CPWD works, and shall be valid upto the stipulated date of completion plus 60 days beyond that.

On receipt of prescribed performance guarantee, necessary letter to commence the work shall be issued, and site of work handed over to you thereafter.

Please note that the time allowed for carrying out the work as entered in the tender (90 days) shall be reckoned from the fifteenth day after the date of issue of this letter.

Yours faithfully,



Shreedhara
REGISTRAR

To:

1. P.A to Registrar, Goa University
2. The University Engineer, Goa University
3. The concerned File
4. The Guard File.
5. Work Order File

7/3/19 - 5/06/19

completion date : 3/6/19
stipulated date : 5/6/19

Handwritten initials



Goa University,
Engineering & Technical Division,
Taleigao Plateau
Goa-403 206

E-Tender Notification No.GU/9/2018-2019/Engg.&Tech Div./180

Dated: 03/01 /2019

Line: 01

SCHEDULE OF WORK

Name of work: Providing New Led Fixtures and Focus Lamps in place of Old Fixtures in Boys Hostel Located in Goa University

NOTE: IF ANY COLUMNS LEFT BLANK IT WILL BE CONSIDRED AS ZERO (0)

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate in Rs.		Amount in Rs
				In Figures	In words	
1	Wiring for circuit/ submain wiring alongwith earth wire with thefollowing sizes of FRLS PVC insulated copper conductor single core cable in the independent surface PVC conduit (medium)of appropriate size as required.					
	(a) 2 x 1.5 sq.mm + 1 x 1.5 sq.mm earthwire (20mm Conduit)	300.00	METRE	90.00	Rupees Ninety Only	27000.00
2	Wiring for light point/ fan point/ exhaust fan point/ call bellpoint with 1.5 sq.mm FR PVC insulated copper conductorsingle core cable in PVC casing capping with modular switch,modular plates, suitable size modular surface box of specifiedCategory and earthing the point with 1.5 sq.mm FR PVC insulated copper conductor single core cable etc. as required.					
	(a) Group A -- with Cat A Modular Accessories	5.00	POINT	850.00	Rupees Eight Hundred Fifty Only	4250.00
3	Wiring for circuit/ submain wiring alongwith earth wire with thefollowing sizes of FR PVC insulated copper conductor singlecore cable in the independent PVC casing capping of appropriate size as required.					
	(a) 2 x 1.5 sq.mm + 1 x 1.5 sq.mm earthwire (20mm casing)	120.00	METRE	120.00	Rupees One Hundred Twenty Only	14400.00
	(b) 2 x 2.5 sq.mm + 1 x 2.5 sq.mm earthwire (20mm casing)	50.00	METRE	120.00	Rupees One Hundred Twenty Only	6000.00
4	Supplying and fixing of following sizes of rigid PVC conduit along with accessories in surface(medium)/recess(heavy) including cutting the wall and making good the same in case of recessed conduit as required.					
	(c) 32 mm	3.00	METRE	75.00	Rupees Seventy Five Only	225.00
5	Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover in front including painting etc. as required					

REGISTERED A.D

GU/9/2020-2021/ENGG. & TECH DIV/230

Date: 18/02/2021

To,
M/S. LOTLIKAR & SONS,
Pimpalkata, New Market,
Margao-Goa-403601

Sub: Replacement of LED fixtures for streetlight poles located in the Goa University campus

Ref. 1) Enquiry Ref. GU/9/2020-2021/Engg. & Tech Div/176 dated 17/12/2020
2) Your tender dated 05/01/2021.

Sir,

Your tender for the work mentioned above has been accepted by the Goa University at your tendered amount of ₹ 19,00,555.00 (**Rupees Nineteen lakh five hundred fifty five only**) which is 10.27 % below the estimated cost of Rs. 21,18,178.00 (**Rupees twenty one lakh eighteen thousand one hundred seventy eight only**).

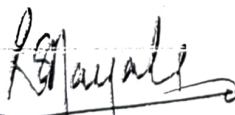
You are requested to submit the performance guarantee of ₹95,028.00 (**Rupees Ninety five thousand twenty eight only**) within eight days of issue of this order.

The performance guarantee shall be in the prescribed form as provided in clause 1 of the general conditions of the contract for CPWD works, and shall be valid up to the stipulated date of completion plus 60 days beyond that.

On receipt of prescribed performance guarantee, necessary letter to commence the work shall be issued, and site of work handed over to you thereafter.

Please note that the time allowed for carrying out the work as entered in the tender (**120 days**) shall be reckoned from the fifteenth day after the date of issue of this letter.

Yours faithfully,


Prof. Radhika S. Nayak
OFFG. REGISTRAR

Copy to:

1. P.A to Registrar, Goa University
2. The University Engineer, Goa University
3. The concerned File
4. The Guard File.
5. Work Order File

GU/9/2019-20/Engg. & Tech. Div. /049

Dated: 27/05/2019

To,
M/s Navratan Electric Company
Shop No. 3, Vijayalaxmi Building,
Opp. Talaulikar Hospital,
Dada Vaidya Road,
Boca-da-Vaca,
Panji-Goa-403001.

Sub:- Supply of electrical materials for maintenance of electrical installations at Goa University campus

Enquiry Ref.: 1) GU/9/2018-2019/Engg. & Tech. Div. /231 dated 24/02/2019
2) your tender dated 13/03/2019

Sir,

Your tender for the above cited subject is accepted by the Goa University for the amount of Rs 10,69,860.00 (Rupees Ten lakhs sixty nine-thousand eight hundred sixty only) at the quoted percentage of 18.55 % below the estimated cost of Rs 13,13,595.00 (Rupees Thirteen lakhs thirteen thousand five hundred ninety five only) put to tender.

The University shall issue separate quarterly requisition orders for supply of electrical materials over a period of 12 months from the date of issue of this work order and you will be required to supply the materials against such requisition order/s within the time limit specified therein on quarterly basis.

You are requested to contact the University Engineer, Engineering & Technical Division for further details

Thanking you.

Yours faithfully,

Y. V. Reddy
Prof. Y. V Reddy
(REGISTRAR)

Copy to:

1. P.A. to Registrar, Goa University
2. Concerned file
3. University Engineer, Engg. & Tech. Div.
4. Guard file

Navratan

13/05/19

E-Tender Notification No.GU/9/2018-2019/Engg.&Tech Div.231
Dated: 26/02/2019

Line: 01

SCHEDULE OF WORK

Name of work: Supply of Electrical materials for maintenance of electrical installations at Goa University Campus. 2nd call

NOTE: IF ANY COLUMNS LEFT BLANK IT WILL BE CONSIDERED AS ZERO (0)

Name of bidder →				Navratan Electric Co		
Sr. No	DESCRIPTION OF ITEM	Unit	Qty	Rate in Rs.		Amount in Rs
				In Figures	In words	
1	Supply of angle holder Anchor/Harrisson make	100.00	NO	20.00	Rupees Twenty Only	2000.00
2	Supply of Resistance type fan regulator crompton/Orient make	200.00	NO	100.00	Rupees One Hundred Only	20000.00
3	Supply of ceiling fan 48" size white colour with all accessories Bajaj/Crompton/Orient make	100.00	NO	1100.00	Rupees One Thousand One Hundred Only	110000.00
	Supply of MRC Fuse enclosure with base and top indo Asian make					
	a) 63 Amps	15.00	NO	360.00	Rupees Three Hundred Sixty Only	5400.00
	b) 100 Amps	10.00	NO	460.00	Rupees Four Hundred Sixty Only	4600.00
5	Supply of 3 pin top Anchor make					
	a) 6 Amps	50.00	NO	38.00	Rupees Thirty Eight Only	1900.00
	b) 16 Amps	50.00	NO	48.00	Rupees Forty Eight Only	2400.00
6	Supply of pendent holder anchor make	200.00	NO	19.00	Rupees Nineteen Only	3800.00
7	Supply of 2.5 mfd capacitor or Tipcon/Siemens/Asian make	500.00	NO	22.00	Rupees Twenty Two Only	11000.00
8	Supply of piano type 5 Amps Switch Anchor make	500.00	NO	10.00	Rupees Ten Only	5000.00
9	Supply of 5pin 6 Amps socket Anchor make	200.00	NO	19.00	Rupees Nineteen Only	3800.00
10	Supply of tubelight starter philips make	500.00	NO	9.00	Rupees Nine Only	4500.00
11	Supply of 2 core flexible twin flat copper wire	4.00	COIL	550.00	Rupees Five Hundred Fifty Only	2200.00
12	Supply of 1.00 Sq.mm PVC insulated Copper wire Finolex/Polycab/Anchor make	20.00	COIL	645.00	Rupees Six Hundred Forty Five Only	12900.00
13	Supply of 1.50 Sq.mm PVC insulated Copper wire Finolex/Polycab/Anchor make	20.00	COIL	965.00	Rupees Nine Hundred Sixty Five Only	19300.00

134/C

Name of bidder				Navratan Electric Co		
Sr. No	DESCRIPTION OF ITEM	Unit	Qty	Rate in Rs.		Amount in Rs
				In Figures	In words	
14	Supply of 2.50 Sq.mm PVC insulated Copper wire Finolex/Polycab/Anchor make	15.00	COIL	1540.00	Rupees One Thousand Five Hundred Forty Only	23100.00
15	Supply of 4.0 Sq.mm PVC insulated Copper wire Finolex/Polycab/Anchor make	20.00	COIL	2270.00	Rupees Two Thousand Two Hundred Seventy Only	45400.00
16	Supply of 35x 8 wood M.S screw	30.00	BOX	40.00	Rupees Forty Only	1200.00
17	Supply of 1.5 Sq.mm 3 core flexible copper cable Finolex/Polycab/Anchor make	2.00	COIL	1030.00	Rupees One Thousand Thirty Only	2060.00
18	Supply of 6/16Amps S.S combined with box Anchor make	100.00	NO	98.00	Rupees Ninety Eight Only	9800.00
19	Supply of Duracell Batteries					
	a) 9 V cells	50.00	NO	20.00	Rupees Twenty Only	1000.00
	b) 1.5 volts cell (AA type)	50.00	NO	10.00	Rupees Ten Only	500.00
	c) 1.5 volts cell (AAA type)	50.00	NO	10.00	Rupees Ten Only	500.00
20	Supply of 35 S.W.G winding copper wire	20.00	KG	900.00	Rupees Nine Hundred Only	18000.00
21	Supply of 36 S.W.G winding copper wire	20.00	KG	900.00	Rupees Nine Hundred Only	18000.00
22	Supply of ceiling fan bearing SKF/TATA make					
	a) 6201 size	100.00	NO	100.00	Rupees One Hundred Only	10000.00
	b) 6202 size	100.00	NO	110.00	Rupees One Hundred Ten Only	11000.00
23	Supply of 0.5 sqmm multi strand PVC insulated copper wire Finolex(Red/Black Colour)	2.00	COIL	650.00	Rupees Six Hundred Fifty Only	1300.00
24	Supply of modular 6A Switch Roma Make	200.00	NO	32.00	Rupees Thirty Two Only	6400.00
25	Supply of modular 6A Socket Roma Make	100.00	NO	74.00	Rupees Seventy Four Only	7400.00
26	Supply of modular 16A Switch Roma Make	50.00	NO	72.00	Rupees Seventy Two Only	3600.00
27	Supply of modular 16A Socket Roma Make	50.00	NO	226.00	Rupees Two Hundred Twenty Six Only	11300.00
28	Supply of PVC insulated .PVC Sheated,4.0 SQmm 2core aluminium service cable,ISI approved make	10.00	COIL	800.00	Rupees Eight Hundred Only	8000.00
29	32 Amps 2 module modular D.P switch Roma make	100.00	NO	140.00	Rupees One Hundred Forty Only	14000.00

SCHEDULE OF WORK

132/C

Name of bidder →				Navratan Electric Co		
Sr. No	DESCRIPTION OF ITEM	Unit	Qty	Rate in Rs.		Amount in Rs
				In Figures	In words	
30	Supply of 2 module surface mounting PVC box, Roma make	100.00	NO	30.00	Rupees Thirty Only	3000.00
31	Supply of 2 module switch plate with cover, Roma Make	100.00	NO	43.00	Rupees Forty Three Only	4300.00
32	Supply of 20 A Ironclad socket with top including box Havels /Legrand make	50.00	NO	990.00	Rupees Nine Hundred Ninety Only	49500.00
33	Supply of Clip type MCB, Legrand /Havels /L&T make.					
	a) 32 Amps	50.00	NO	118.00	Rupees One Hundred Eighteen Only	5900.00
	b) 20 Amps	100.00	NO	118.00	Rupees One Hundred Eighteen Only	11800.00
	c) 16 Amps	50.00	NO	118.00	Rupees One Hundred Eighteen Only	5900.00
34	Supply of PVC insulated tape, Anchor/Steelgrip make	300.00	NO	8.00	Rupees Eight Only	2400.00
35	Supply of 10Amps modular switch Anchor woods make	100.00	NO	26.00	Rupees Twenty Six Only	2600.00
36	Supply of 10Amps modular socket Anchor woods make	100.00	NO	71.00	Rupees Seventy One Only	7100.00
37	Supply of modular step regulator Anchor woods make (2 module)	100.00	NO	270.00	Rupees Two Hundred Seventy Only	27000.00
38	Supply of MCCB 25KA DX 3 pole make L&T/Havels/Legrand					
	a) 63 Amps	5.00	NO	3300.00	Rupees Three Thousand Three Hundred Only	16500.00
	b) 100 Amps	10.00	NO	3300.00	Rupees Three Thousand Three Hundred Only	33000.00
	c) 125Amps	5.00	NO	4700.00	Rupees Four Thousand Seven Hundred Only	23500.00
	d) 150Amps	5.00	NO	6000.00	Rupees Six Thousand Only	30000.00
	e) 200 Amps	5.00	NO	7800.00	Rupees Seven Thousand Eight Hundred Only	39000.00
39	Supply of 10 watts LED, T-shape, pin type Lamp make Philips/Syska	200.00	NO	190.00	Rupees One Hundred Ninety Only	38000.00

NAVRATAN

130/C

Name of bidder —				Navratan Electric Co		
Sr. No	DESCRIPTION OF ITEM	Unit	Qty	Rate in Rs.		Amount in Rs
				In Figures	In words	
40	Supply of 14 watts LED, T-shape, pin type Lamp make Philips/Syska	200.00	NO	225.00	Rupees Two Hundred Twenty Five Only	45000.00
41	Supply of 14 watts/15watts, LED Bulb E 27 syska/Philips/Havels/Crompton make	200.00	NO	210.00	Rupees Two Hundred Ten Only	42000.00
42	Supply of rechargeable (UPS) bulb with emergency back up, 7 watts, Pin type Syska/Panasonic/Oreva make	100.00	NO	320.00	Rupees Three Hundred Twenty Only	32000.00
43	Supply of LED battarn fixture Panasonic/Havels/syska/Philips make					
	a) 10watts	300.00	NO	250.00	Rupees Two Hundred Fifty Only	75000.00
	b) 20watts	700.00	NO	250.00	Rupees Two Hundred Fifty Only	175000.00
Total				Rupees Seventy Five Thousand Only		1069860.00
Estimated Amount						1313595.00
Difference						-243735.00
Percentage						-18.55

"This is a digitally Signed Document"

Navratan
Navratan

GOA UNIVERSITY
Taleigao Plateau
S.P.O Goa University
Pin Code-403206
E-Mail : fo@unigoa.ac.in

Payment Voucher

No.: 414(20)

Dated: 7-Nov-2019

Particulars	Debit	Credit
F-3(2)(2) Minor Works (Elect.)	5,82,854.00 Dr	
To Tax at Source - Contractor		10,417.00 Cr
To Workers Welfare Cess		5,208.00 Cr
To State GST		5,208.00 Cr
To Central GST		5,208.00 Cr
To B-2 Deposits From Contractors & Suppliers		14,216.00 Cr
To SBI, Bamb. 10664493019		5,42,597.00 Cr
	5,82,854.00	5,82,854.00

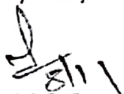
On Account of: AOA P8 24194

Amount paid to lotlikar & Sons (520845/-+ GST) towards 1st & final RA bill for providing new LED fixtures in boys hostel. GST No. 30AACFL0522A1ZH

Amount in Words : Indian Rupees Five Lakh Eighty Two Thousand Eight Hundred Fifty Four Only.


Prepared By

Acct/Hc/UDC


AAO/Supt/AR

Receivers Sign


DR/FO
18/11/19
DR(F)


18.11.19.

SCHEDULE OF WORK

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate in Rs.		Amount in Rs
				In Figures	In words	
	(b) 100 mm x 100 mm x 60 mm deep metal box	1.00	EACH	150.00	Rupees One Hundred Fifty Only	150.00
6	Supplying and fixing following modular switch/ socket on the existing modular plate and switch box including connections but excluding modular plate etc. as required					
	(a) 5/6 A switch Cat A	180.00	EACH	90.00	Rupees Ninety Only	16200.00
	(d) 3 pin 5/6 A socket outlet Cat A	180.00	EACH	135.00	Rupees One Hundred Thirty Five Only	24300.00
7	Supplying and fixing modular blanking plate on the existing modular plate switch box excluding modular plate etc. as required					
	(a) Cat A	180.00	EACH	20.00	Rupees Twenty Only	3600.00
8	Supplying and fixing following modular base and cover plate on existing modular metal box as required					
	(b) 4 Module Cat A	180	EACH	135.00	Rupees One Hundred Thirty Five Only	24300.00
9	Installation, earthing, testing and commissioning of pre-wired fluorescent fitting/compact fluorescent fittings of all types complete with all accessories and tube etc. directly on ceiling / wall including connections with 1.5 sq. mm FRRLS PVC insulated copper conductor single core cable and earthing etc. as required.	721.00	EACH	20.00	Rupees Twenty Only	14420.00
10	Installation, earthing, testing and commissioning of ceiling fan including wiring the down rod of standard length (upto 30 cm) with 1.5 sq. mm FRRLS PVC insulated copper conductor single core cable etc. as required.	11.00	EACH	50.00	Rupees Fifty Only	550.00
11	Supplying and fixing extra down rod of 100 cm length G.I pipe 15cm dia heavy gauge including painting etc as required	2.00	METRE	125.00	Rupees One Hundred Twenty Five Only	250.00
12	Supply of 3 core armoured PVC/XLPE insulated, PVC sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554(Part I) ,IS:7098(Part I) with latest amendments of following size.					

SCHEDULE OF WORK

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate In Rs.		Amount in Rs
				In Figures	In words	
	(4) 3 Core 10 sq.mm	32.00	METRE	130.00	Rupees One Hundred Thirty Only	4160.00
13	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size not exceeding 25 sq.mm direct in ground including excavation in the form of a trench as per Cable Trench Drawing provided by the Engineer-Incharge, sand cushioning with screened sand bed of 20mm thick, protective covering with bricks placed breadth-wise on top of cable all over the run(the brick protection shall cover the cable and project atleast 5 cms over the sides of the cable) and backfilling the excavated earth without stones or hard material and making the surface proper with 15 cm crown on the top complete as required.					
	(b) In rocky strata	5.00	METRE	200.00	Rupees Two Hundred Only	1000.00
14	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size not exceeding 25 sq.mm in the existing RCC/HUME/STONEWARE Metal pipe, etc. complete as required	24.00	METRE	30.00	Rupees Thirty Only	720.00
15	Laying of one number PVC insulated and PVC sheathed/XLPE power cable of 1.1 KV grade of size not exceeding 25 sq.mm on surface, etc. complete as required	3.00	METRE	40.00	Rupees Forty Only	120.00
16	Supplying and making cable end terminations with brass compression gland and copper lugs for following sizes of 3 Core PVC insulated PVC sheathed/XLPE aluminium conductor cable of 1.1 KV grade, complete as required.					
	(4) 3 x 10 Sq. mm.	2.00	EACH	200.00	Rupees Two Hundred Only	400.00

P.W.D. 4134. (Half Sheet)

Sub Division

its completion. A single form may be used generally for 2d for the first time. A single form may also be used for time time. In this case column 2 should be sub-divided

(iv) Purchase for the work of

.....(iv) Purchases for the work of

under the same "Sub-head" should be totalled in red ink impression.

payment. Transaction of Road side materials entered

Cash book voucher No

Name of Contractor/Piece worker/Supplier: M/s

Budget Head:

Agreement No: GU/9/2018-2019/Engg.& Tech D

Name of work: Providing New Led Fixtures and I

Date of written order to commencement of work:

Diversity

Jf Work: 04/06/2019

UDC
AAO
AR
DR(F)
FO
R

Accountant

no	Wiring for circuit
1	Flowing, 5000
2	5000

FIRST AND FINAL BILL FORM NO 24

Description of Items	Qty	Unit	In Figures	In Words	Amount
1 Wiring for circuit / submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in the (a) 2x1.5Sqmm + 1x1.5Sqmm earthwire (20mm conduit)	0	ME (RE)	00.00	# NAME?	
2 Wiring for light point / fan point / Exhaust fan point / call bell point with 1.5Sqmm FR PVC insulated copper conductor single core cable in PVC casing capping with modular switch, modular plates, suitable size modular surface box of specified category and earthing the point with 1.5Sqmm FR PVC insulated copper conductor single core cable etc. as required.	14.00	POINT	050.00	# NAME?	11900.00
(a) Group A with Cat A Modular Accessories					
3 Wiring for circuit / Submain wiring alongwith earth wire with the following sizes FR PVC insulated copper conductor single core cable in the independent PVC casing capping of appropriate size as required	21.00	METRE	120.00	# NAME?	2580.00
(a) 2x1.5Sqmm + 1x 1.5Sqmm earthwise (20mm casing)	44.00	METRE	120.00	# NAME?	5280.00
(b) 2x2.5Sqmm + 1x 2.5Sqmm earthwise (20mm casing)					
4 Supplying and fixing of following sizes of rigid PVC conduit along with accessories in surface (medium) / recess (heavy) including cutting the wall and making good the same in case of recessed conduit as required.	0.00	METRE	75.00	# NAME?	0.00
(c) 32mm					
5 Supplying and fixing metal box of following sizes (nominal size) on surface or in recess with suitable size of phenolic laminated sheet cover Infront including painting etc as required	0.00	EACH	150.00	# NAME?	0.00
(b) 100mm x 100mm x 60mm deep metal box					
6 Supplying and fixing following modular switch / socket on the existing modular	192.00	EACH	90.00	# NAME?	17280.00
(a) 5/6 A switch Cat A	168.00	EACH	135.00	# NAME?	22680.00
(d) 3 pin 5/6 A socket outlet Cat A					
7 Supplying and fixing modular blanking plate on the existing modular plate switch box excluding modular plate etc as required.	192.00	EACH	20.00	# NAME?	3840.00
(a) Cat A					
8 Supplying and fixing following modular base and cover plate on existing modular metal box as required	180.00	EACH	135.00	# NAME?	24300.00
(b) 4 Module Cat A					
9 Installation, earthing, testing and commissioning of pre wired fluorescent fitting of all types complete with all accessories and tube etc directly on ceiling / wall including connections with 1.5Sqmm FRLS PVC insulated copper conductor single core cable and earthing etc as required.	721.00	EACH	20.00	# NAME?	14420.00
10 Installation, earthing, testing and commissioning of ceiling fan including wiring the down rod of standard length (upto 30cm) with 1.5Sqmm FRFRLS PVC insulated copper conductor single core etc. as required.	0.00	EACH	50.00	# NAME?	0.00
11 Supplying and fixing extra down rod of 100cm length G.I pipe 15cm dia heavy gauge including painting etc as required	5.40	METRE	125.00	# NAME?	675.00
12 Supply of 3 core armoured PVC/XLPE insulated pvc sheathed aluminium conductor cable of 1.1 KV grade with ISI mark conforming to IS:1554 (part I) IS:7098 (part I) with latest amendments of following size	252.00	METRE	130.00	# NAME?	32760.00
(4) 3 core 10Sqmm					
13 Laying of one number PVC insulated and PVC sheath / XLPE power cable of 1.1KV grade of size not exceeding 25Sqmm direct in ground including excavation in the form of a trench as per Cable trench Drawing provided by the Engineer in charge, sand cushioning with screened sand bed of 20mm thick protective covering with bricks placed breadth wise on top of cable all over the run (the brick protection shall cover the cable and project at least 5cms over the sides of the cable) and backfilling the excavated earth without stones or hard material and making the surface proper with 15cm crown on the top complete as required	17.00	METRE	200.00	# NAME?	3400.00
(b) in rocky strata	32.50	METRE	30.00	# NAME?	975.00
14 Laying of one number PVC insulated and pvc sheath / XLPE power cable of 1.1KV grade of size not exceeding 25Sqmm in the existing RCC/HUME/STONEWARE Metal pipe etc complete as required	202.50	METRE	40.00	# NAME?	8100.00
15 Laying of one number PVC insulated and PVC sheath / XLPE power cable of 1.1KV grade of size not exceeding 25Sqmm on surface etc complete as required					
16 Supplying and making cable end terminations with brass compression gland and copper lugs for the following sizes of 3 core PVC insulated PVC sheathed / XLPE aluminium conductor cable of 1.1KV grade, complete as required	2.00	EACH	200.00	# NAME?	400.00
(4) 3x10Sqmm					
17 Supply of surface mounted LED Batten luminaire complete with all accessories Panasonic/Havells/Philips/Jaquar make (Min 2 years replacement warranty to be provided on fixtures)	506.00	EACH	425.00	# NAME?	215050.00
(a) 4 feet 20 Watts	215.00	EACH	390.00	# NAME?	83850.00
(B) 2 feet 10Watts					
18 Supply and Erecting of 45Watts LED streetlight luminaire with aluminium diecast body complete with all accessories including all control gear, LED Lamp 25mm 2 feet G.I bend pipe or as required Panasonic/Jaquar/Havells make (Minimum 2 years replacement warranty to be provided on fixture)	10.00	EACH	3500.00	# NAME?	35000.00
19 Supply and erecting of 48 inch (1200mm sweep) ceiling fan, Double ball bearing type complete with all accessories	11.00	NO	1000.00	# NAME?	19800.00
(a) Cat A	6.00	NO	100.00	# NAME?	600.00
20 Supply and erecting S type Stainless steel fan hook fabricated out of 10mm round bar complete as required	6.00	NO	125.00	# NAME?	750.00
21 Chasing the ceiling to erect a fan hook including making good the plaster, neeru and paint complete as required (hook not included)					
22 Supplying and fixing suitable size modular PVC box with modular plate and cover in/on surface or in recess including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch connection painting etc as required.	10.00	EACH	150.00	# NAME?	1500.00
(a) Cat A					
23 Providing and fixing G.I pipes complete with G.I fittings including trenching and re-filling etc (external works)	18.00	METRE	200.00	# NAME?	3600.00
(f) 50mm Nominal Bore	6.00	METRE	300.00	# NAME?	1800.00
(G) 100MM Nominal Bore					
24 Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc as required	6.00	EACH	400.00	# NAME?	2400.00
(a) Cat A					
25 Supplying and fixing following size modular PVC box alongwith modular base and cover					

SCHEDULE OF WORK

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate In Rs.		Amount in Rs
				In Figures	In words	
17	Supply of surface mounted LED battern luminaire complete with all accessories Panasonic/Havels/Philips/Jaquar make(Min 2 years replacement warranty to be provided on fixtures)					
	(a) 4 feet 20 Watts	506.00	EACH	425.00	Rupees Four Hundred Twenty Five Only	215050.00
	(b) 2 feet 10Watts	215.00	EACH	390.00	Rupees Three Hundred Ninety Only	83850.00

(cont.)

SCHEDULE OF WORK

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate in Rs.		Amount in Rs
				In Figures	In words	
18	Supply and Erecting of 45 watts LED streetlight luminaire with alluminium diecast body complete with all accessories including all control gear, LED Lamp fixture 25mm 2 feet G.I bend Pipe or as required Panasonic/Jaques/Havells make (Minimum 2 years replacement warranty to be provided on fixture)	10.00	EACH	3500	Rupees Three Thousand Five Hundred Only	35000.00
19	Supply and erecting of 48 inch (1200mm sweep) ceiling fan, double ball bearing type, , complete with all accessories.					
	(a) Cat A	11.00	NO	1800.00	Rupees One Thousand Eight Hundred Only	19800.00
20	Supply and erecting S type Stainless Steel fan hook fabricated out of 10 mm round bar complete as required.	5.00	NO	100.00	Rupees One Hundred Only	500.00
21	Chasing the ceiling to erect a fan hook including making good the plaster, neeru and paint complete as required(hook not included).	5.00	NO	125.00	Rupees One Hundred Twenty Five Only	625.00
22	Supplying and fixing suitable size modular PVC box with modular plate and cover in front on surface or in recess including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch connection painting etc. as required.					
	(a) Cat A	12.00	EACH	150.00	Rupees One Hundred Fifty Only	1800.00
23	Providing and fixing G.I pipes complete with GI fittings including trenching and re -filling etc(external works)					
	(f) 50mm Nominal Bore	18.00	METRE	200.00	Rupees Two Hundred Only	3600.00
	(g) 80mm Nominal Bore	6.00	METRE	300.00	Rupees Three Hundred Only	1800.00
24	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required					
	a) CAT A	6.00	EACH	400.00	Rupees Four Hundred Only	2400.00
25	Supplying and fixing following size modular PVC box alongwith modular base and cover plate for modulator switches in recess etc. as required					
	(a) 1 or 2 Module Cat A	6.00	EACH	180.00	Rupees One Hundred Eighty Only	1080.00

SCHEDULE OF WORK

Name of bidder →				LOTLIKAR AND SONS		
Sr. No	DESCRIPTION OF ITEM	Qty	Unit	Rate in Rs.		Amount in Rs
				In Figures	In words	
26	Dismantaling of all types of Fluorescent tubelight fixture from wall or ceiling alongwith all accessories,stacking at a suitable place and shifting at a location within the campus including transportation labour etc. complete as required	700.00	EACH	5.00	Rupees Five Only	3500.00
Total				Rupees Five Lakh Eleven Thousand Fifty Only		511050.00
Estimated Amount						591321.00
Difference						-80271.00
Percentage						-13.57

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Est. Div/2017-2018/152

Estate Division
Goa University
Taleigao Plateau, Goa
Date: 30/09/2019

To:
The Finance officer,
Goa University.

Sir,
Enclosed please find FIRST AND FINAL bill in triplicate for the work

Providing new LED fixtures and town lamps in place of old fixtures
in Boys Hostel located in Goa University Campus

alongwith M.B. No. 276

The M.B. and one copy of P.A. bill duly passed be returned to this office record.

RECEIVED

UNIVERSITY ENGINEER