

7.1.2

The institution has facilities for alternate sources of energy and Energy conservation measures

1) Documents related to Solar Energy Plant

The University had established the grid connected rooftop solar power plant of 576 KWp through the scheme governed by Solar Energy Corporation of India (SECI) New Delhi, in RESCO mode. The SECI has floated a tender at national level and fix the agencies through out the nation for Government Buildings. Therefore the university had not purchase any equipment to establish the solar plant. The University is paying for generated solar unit with the rate fixed by SECI. The copy of initial and latest bills so generated by the agencies is attached herewith for your ready reference along with the sanctioned copy of this project by SECI. The combined information regarding the total unit generation and total savings for the financial year 2018-2019, 2019-2020 & 2020-2021 is given in the chart with authentic signature.

Copies attached -

- 1) Sanctioned copy of the project by SECI
- 2) Bill generated for the month April 2019
- 3) Bill generated for the month March 2020
- 4) Chart of total generation and saving for the financial years 2018 to 2021

4 & 5) Documents related to

(4) Sensor Based Energy Conservation

The University had replaced 1413 Nos. old conventional fans with Energy efficient sensor based fans in its various departments. The bills paid for this work are attached herewith for your information.

Copies attached -

- 1) copy of bills for purchase of fans

(5) Power Efficient Equipment

The University had replaced 1413 Nos. old conventional fans with Energy efficient sensor based fans and 2753 Nos. of conventional tubelights with energy efficient LED tubelights in its various departments. The university also replaced 279 nos of conventional mercury vapour streetlight, 54 Nos. of flood lights, 259 Nos. of downlighters/ Panel lights with energy efficient LED equipments in campus. The bills paid for this work are attached herewith for your information

Copies attached -

- 1) copy of bills for installation of energy efficient LED tubelights and streetlights.

7.1.4

Water conservation facilities available in the institution.

(1) Rain Water Harvesting

The rain water harvesting for all the existing buildings is done before 2019-2020. The rain water harvesting for the newly constructed buildings is mandatorily being done by the PWD as a university policy and Amravati Municipal Corporation policy to issue no objection certificate to new buildings.

(3) Construction of Tanks and bunds.

The University had the deepened a field tank of capacity in its campus. The bills for these construction is attached herewith for your ready reference. The University has also published a tender for various water conservation works costing Rs.69.76 lakhs. The E-Tender notice published for these works are attached for your reference.

Copies attached -

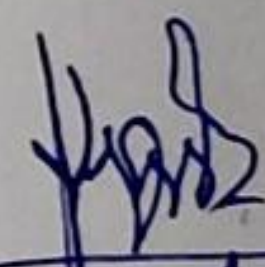
- 1) Bills paid for construction of field tank.
- 2) E-Tender notice for water conservation works.

(5) Maintenance of water bodies and distribution system in the campus.

The University had constructed a 4.00 lakh litre capacity water tank and its distribution system in 2018-2019 in its campus. The extension distribution systems is developed in 2019-2020 costing Rs.19,71,249/- The bills paid for this work is attached herewith for your ready reference. The E-tender for the work of remaining water distribution system is published, the copy of which is enclosed herewith for your reference.

Copies attached -

- 1) Bills paid for extended water distribution system.
- 2) E-Tender notice for remaining water distribution system.


27/04/2021
Executive Engineer
Sant Gadge Baba Amravati University



S-5751

सोलर एनर्जी कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
Solar Energy Corporation of India Ltd.
(A Government of India Enterprise)

स्वच्छ भारत - स्वच्छ ऊर्जा

No: SECI/PS/109(T)/2016/16006

Dated: 22-09-2017

To
Dr. Ajay Deshmukh
Sant Gadge Baba Amravati University,
Camp Area, Near Tapovan Gate,
Amravati, Maharashtra - 444602

Subject: Installation of Grid-connected Rooftop Solar Plant at Sant Gadge Baba Amravati University.

Sir,

This has reference to your Letter dated 15.06.2017 regarding the subject cited.

We appreciate your evincing interest in Solar Energy and are thankful for your faith in SECI for implementation of the project.

We would like to inform you that we have recently finalised a 500MW Tender for installation of Rooftop solar power plants throughout the country.

For the state of Maharashtra, the tariff for RESCO Projects is Rs. 3.620/kWh and for CAPEX Modes the project cost will be Rs. 35,618/kW. The incentives available from Government of India have already been adjusted in the price.

We request you to intimate us about your desired mode of implementation at the earliest.

Thanking you,

Yours faithfully,

(R. K. Jain)
AGM (Solar)

SANT GADGE BABA
AMRAVATI UNIVERSITY
Registrar's Office
Inward No. 1268
Date 26 SEP 2017
To Whom Marked

27/9/17
Executive Engineer

UJE
29/9

26-5-17
28/9/17

2073
2019



S-6114

सोलर एनर्जी कॉर्पोरेशन ऑफ इंडिया लिमिटेड
(भारत सरकार का उपक्रम)
Solar Energy Corporation of India Ltd.
(A Government of India Enterprise)

स्वच्छ भारत - स्वच्छ ऊर्जा

No: SECI/PS/109/2016/17833

Dated: 14.12.2017

Dr. Ajay Deshmukh,
Registrar,
Camp Area, Near Tapovan Gate,
Amravati, Maharashtra -444602

Subject: Installation of Grid-connected Rooftop Solar Plants

Sir,

This has reference to your Letter No. SGBAU/11/2/333/2017 dated 23.11.2017 regarding the subject.

We would like to inform that presently SECI is operating a scheme for "Design, Manufacture, Supply, Erection, Testing and Commissioning including Warranty, Operation & Maintenance of Rooftop Solar PV System", vide RfS No.: SECI/C&P/MNRE/1000MW RT/IND/122016 dated 09/12/2016.

Under this tender, the projects can be installed in CAPEX or RESCO modes. In CAPEX mode, the rooftop owner will purchase the solar plants whereas in RESCO mode the vendor will bear the cost of installation of solar plant and the rooftop owner will purchase the power generated by the solar plant through a PPA for 25 years, during which period the vendor shall undertake O&M of the plant during the PPA period.

It is also submitted that the Power Purchase Agreement (for RESCO projects) has to be signed between the SECI's vendor and Building representative. These standard documents have been vetted by Ministry of Finance and Ministry of Law & Justice. The vendor is required to submit the copy of signed PPA and the DPR of the project to SECI for sanction under the scheme.

The list of discovered Tariff and vendor details for Maharashtra is enclosed herewith for your kind reference. You are requested to contact any of the listed vendor directly as per your requirement.

You are requested to advise your officers to follow the above-mentioned procedure at the earliest so that the sanction can be granted by SECI and execution work can be commenced.

Thanking you,

Yours faithfully,

2662
20/12/17

19/12/17
Executive Engineer

UDE

1505
Date: 19 DEC 2017

SANT GADGE BABA
AMRAVATI UNIVERSITY
Registrar's Office
Inward No.
Date.....
To Whom Marked.....

(R. K. Jain)
A. G. M. (Solar)

Annexure I – List of Bidders in Maharashtra

Sr No	Name of Bidder	Accepted Capacity(kW)	Authorized Signatory	Email Address	Contact Numbers
RESCO Model, Tariff Rate: 3.620 kW					
1	Fourth Partner Energy Pvt. Limited	2000	M Srinivasa Reddy	info@fourthpartner.co	+91 40 64631123
2	TEP Solar India Mauritius	2000	Radheshyam Goyal / Kunal Pragati	r.goyal@thinkenergypartners.com / kunal.pragati@thinkenergypartners.com	+91 9212176421 / +91 9560004324
3	Cleanmax Enviro Energy Solutions Pvt. Limited	4500	Randeep Bora	randeep_bora@cleansolar.com	+91 9910084922
4	Hero Future Energies Limited	4000	Rohit Saini	rohit.saini@herofutureenergies.com	+91 9971066443
5	Aditya Green Energy	3000	Jayesh G. Bajaj	adityagreenergy@rediffmail.com	+91 9890048748

CMES POWER 1 PRIVATE LIMITED

Registered office - 13 A, FLOOR -13, PLOT-400, THE PEREGRINE, APARTMENT, KISMAT CINEMA,
PRABHADEVI, MUMBAI - 400025. CIN Number - U74999MH2017PTC300936

Bill of Supply

Invoice No.	10002786
GST No	27AAHCC2452NIZE
HSN No	27160000
Payer Name	Sant Gadge Baba Amravati University
Payer Address	Sant Gadge Baba Amravati University Camp Area Amravati Maharashtra 444602
Solar Plant Total Capacity	576.00 kWp
Bill Date	06 May 2019
Bill Supplies	01 Apr 2019 - 30 Apr 2019
Bill Amount Payable	Rs. 3,22,232
Bill Amount Payable (in words)	Rupees Three Lakhs Twenty Two Thousand Two Hundred and Thirty Two Only /-

Item	Quantity	Unit	Comment
Current Meter Reading (A)	3,67,263.76	kWh	
Previous Meter Reading (B)	2,78,249.31	kWh	
Total Units Billed (C = A-B)	89,014.45	kWh	
Tariff Per Unit (D)	3.62	Rs/kWh	
Total Solar Charges (E = C*D)	3,22,232.3	Rs	
Total Charges (F = E)	3,22,232.3	Rs	

Due Date of Bill Payment	05 Jun 2019
Late payment penalty	Bills paid after due date of bill payment will be charged a penalty at rate of 1.25% per month on the total bill amount payable
Bank Details	Beneficiary Name: CMES Power 1 Private Limited Bank Name: RBL Bank Limited Acc No: 409000904770 Account Type: Current IFSC code: RATN0000088 Branch Name: Lower Parel West Branch Code: 0088 Address: Lower Parel West
Investor PAN Number:	AAHCC2452N

This is a system generated Invoice and requires no signature

For any billing related queries/clarifications, please send an email to assetmgt@cleanmaxsolar.com



W.D/G
8/5
08/05
J.E. CE

o/c

CMES POWER 1 PRIVATE LIMITED

Registered office - 13 A, FLOOR -13, PLOT-400, THE PEREGRINE, APARTMENT, KISMAT CINEMA,
PRABHADEVI, MUMBAI - 400025. CIN Number - U74999MH2017PTC300936

Bill of Supply

Invoice No.	10005547
GST No	27AAHCC2452N1ZE
HSN No	27160000
Payer Name	Sant Gadge Baba Amravati University
Payer Address	Sant Gadge Baba Amravati University Camp Area Amravati Maharashtra 444602
Solar Plant Total Capacity	576.00 kWp
Bill Date	06 Apr 2020
Bill Supplies	01 Mar 2020 - 31 Mar 2020
Bill Amount Payable	Rs. 3,03,177
Bill Amount Payable (in words)	Rupees Three Lakhs Three Thousand One Hundred and Seventy Seven Only /-

Item	Quantity	Unit	Comment
Current Meter Reading (A)	10,86,637.08	kWh	
Previous Meter Reading (B)	10,02,886.6	kWh	
Total Units Billed (C = A-B)	83,750.48	kWh	
Tariff Per Unit (D)	3.62	Rs/kWh	
Total Solar Charges (E = C*D)	3,03,176.73	Rs	
Total Charges (F = E)	3,03,176.73	Rs	

Due Date of Bill Payment	06 May 2020
Late payment penalty	Bills paid after due date of bill payment will be charged a penalty at rate of 1.25% per month on the total bill amount payable
Bank Details	Beneficiary Name: CMES Power 1 Private Limited Bank Name: RBL Bank Limited Acc No: 409000904770 Account Type: Current IFSC code: RATN0000088 Branch Name: Lower Parel West Branch Code: 0088 Address: Lower Parel West
Investor PAN Number:	AAHCC2452N

For any billing related queries/clarifications, please send an email to billing@cleanmaxsolar.com

Regina
Grace

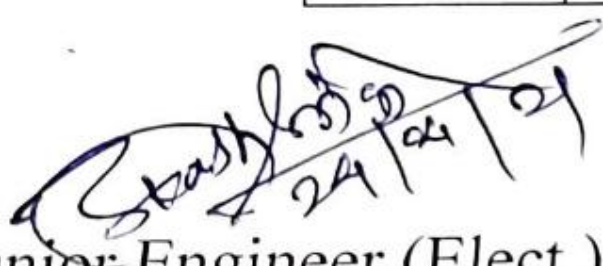
Digitally signed
by Regina Grace
Date: 2020.04.06
12:22:55 +05'30'


SANT GADGE BABA AMRAVATI UNIVERSITY

BRIEF SCENARIO OF SOLAR POWER PLANT

(24/12/2018 to 31/03/2021)

Sr. No.	Period	Solar Units Generated (Units)	Net Saving (Rs.)
01	24/12/2018 to 31/03/2019	277401	1556196
02	01/04/2019 to 31/03/2020	808386	4811252
03	01/04/2020 to 31/03/2021	801381	3911060
	Grand Total	1887168	10278508

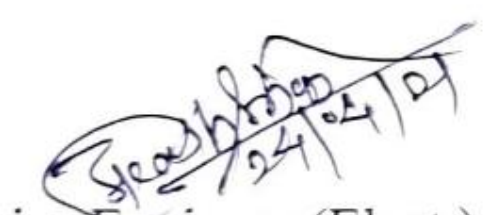

Junior Engineer (Elect.)
Sant Gadge Baba Amravati University



University Dy. Engineer (Elect.)
Sant Gadge Baba Amravati University


Executive Engineer
Sant Gadge Baba Amravati University

SANT GADGE BABA AMRAVATI UNIVERSITY
BRIEF SCENARIO OF SOLAR POWER PLANT
(Period 24/12/2018 to 31/03/2019)

No	Generation Period	Solar Plant Details				MSEDCL Bill Details				Total Units Consumed in Campus	Per Unit/ per month profit rate	Net Saving per month
		Units Generated	Units Exported to MSEDCL through Net Meter	Units Consumed in Campus	Amount to be paid to agency for Solar Units as per agreement @ Rs. 3.62/- Unit	Units Imported from MSEDCL	Billed Units for 1 Month	Rate per Unit (Including all charges)	Amount of Bill (Including other charges)			
		A	B	C	D	E	F	G	H	I	J	K
	24.12.18 - 31.12.18	17609	4995	12614	63745	88959	83964	9.1104	820310	101573	5.4904	96680
	January 2019	73692	25125	48567	266765	56130	31005	9.3704	370810	104697	5.7504	423758
	February 2019	78911	31635	47276	285658	50115	18480	9.0704	267220	97391	5.4504	430097
	March 2019	107189	29580	71609	388023	62445	32865	9.2704	385930	134054	5.6504	605661
		277401	91335	180066	1004191	257649	166314		1844270	437715		1556196

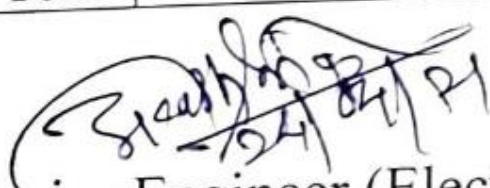

Junior Engineer (Elect.)
Sant Gadge Baba Amravati University



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Sant Gadge Baba Amravati University

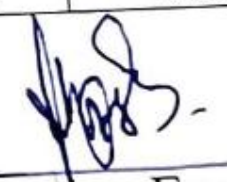

Executive Engineer
Sant Gadge Baba Amravati University

SANT GADGE BABA AMRAVATI UNIVERSITY
BRIEF SCENARIO OF SOLAR POWER PLANT
(01/04/2019 to 31/03 2020)

S. No.	Generation Period	Solar Plant Details				MSEDCL Bill Details				Total Units Consumed in Campus	Per Unit/ per month profit rate	Net Saving per month
		Units Generated	Units Exported to MSEDCL through Net Meter	Units Consumed in Campus	Amount to be paid to agency for Solar Units as per agreement @ Rs, 3.62/- Unit	Units Imported from MSEDCL	Billed Units for 1 Month	Rate per Unit (Including all charges)	Amount of Bill (Including other charges)			
		A	B	C	D	E	F	G	H	I	J	K
01	April 2019	89014	16285	72729	322232	81245	64960	9.5104	603660	153974	5.8904	524328
02	May 2019	81671	11440	70231	295649	94680	83240	9.5404	904850	164911	5.9204	483525
03	June 2019	75525	7430	68095	273402	91695	84265	9.5004	941410	159790	5.8804	444117
04	July 2019	56414	9755	46659	204220	66935	57180	9.2104	639510	113594	5.5904	315377
05	August 2019	49998	11065	38933	180993	68725	57660	8.8614	620710	107658	5.2414	262060
06	September 2019	46274	9945	36329	167514	69825	59880	9.1504	660220	106154	5.5304	255914
07	October 2019	65971	23625	42346	238814	57430	33805	9.3904	454550	99776	5.7704	380679
08	November 2019	68613	24255	44358	248378	52455	28200	9.7704	420400	96813	6.1504	421997
09	December 2019	53664	16590	37074	194264	58635	42045	9.7804	544050	95709	6.1604	330592
10	January 2020	60074	19690	40384	217468	56185	37125	9.9004	506930	97199	6.2804	377289
11	February 2020	77418	31285	46133	287080	49660	18375	10.0604	356580	95793	6.4404	498603
12	March 2020	83750	31935	51815	303177	45165	13530	9.7904	310100	96980	6.1704	516771
	Total	808386	213300	595086	2933191	792635	580265		6962970	1388351		4811252


Junior Engineer (Elect.)
Sant Gadge Baba Amravati University

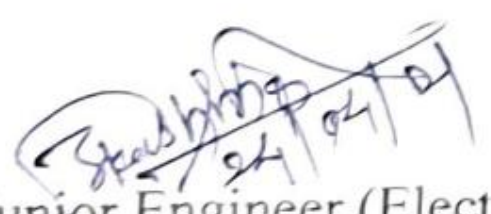

University Dy. Engineer (Elect.)
Sant Gadge Baba Amravati University

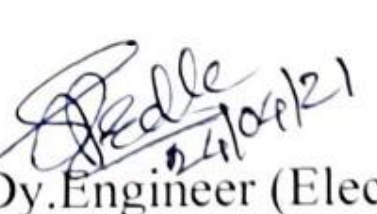

Executive Engineer
Sant Gadge Baba Amravati University

SANT GADGE BABA AMRAVATI UNIVERSITY
BRIEF SCENARIO OF SOLAR POWER PLANT

(01/04/2020 to 31/03/2021)

S.No.	Generation Period	Solar Plant Details				MSEDCL Bill Details				Total Units Consumed in Campus	Per Unit/ per month profit rate	Net Saving per month
		Units Generated	Units Exported to MSEDCL through Net Meter	Units Consumed in Campus	Amount to be paid to agency for Solar Units as per agreement @ Rs. 3.62/- Unit	Units Imported from MSEDCL	Billed Units for 1 Month	Rate per Unit (Including all charges)	Amount of Bill (Including other charges)			
		A	B	C	D	E	F	G	H	I	J	K
01	April 2020	79187	23140	56047	286657	33770	10630	8.5004	104470	89817	4.8804	386464
02	May 2020	79577	20676	58901	28870	32375	14436	8.5004	194660	91276	4.8804	388368
03	June 2020	61766	27342	34424	223595	38715	14355	8.5004	209500	73139	4.8804	301443
04	July 2020	70179	32835	37344	254047	42812	14596	8.5004	191110	80156	4.8804	342502
05	August 2020	43313	21945	21368	156791	43288	14245	8.5004	164680	64656	4.8804	211385
06	September 2020	61761	28365	33396	223572	45555	14438	8.5004	203890	78951	4.8804	301418
07	October 2020	62745	33450	29295	227136	43267	15057	8.5004	192990	72562	4.8804	306221
08	November 2020	65573	40780	24793	237375	38732	14160	8.5004	184420	63525	4.8804	320022
09	December 2020	65368	38285	27083	236630	38498	12238	8.5004	166590	65581	4.8804	319022
10	January 2021	67046	36665	30381	242708	36638	10984	8.5004	154860	67019	4.8804	327211
11	February 2021	70424	42380	28044	254935	31081	9829	8.5004	143880	59125	4.8804	343697
12	March 2021	74442	43450	30992	269480	36302	11490	8.5004	159660	67294	4.8804	363307
	Total	801381	389313	412068	2641796	461033	156458		2070710	873101		3911060


 Junior Engineer (Elect.)
 Sant Gadge Baba Amravati University


 University Dy. Engineer (Elect.)
 Sant Gadge Baba Amravati University


 Executive Engineer
 Sant Gadge Baba Amravati University

POTODE TRADERS AND ENGINEERING SERVICES

Siddharth Complex Opposite Rajapeth Police Station Amravati Maharashtra-444605, India
GSTIN 27AZSPP5793Q1ZW

INVOICE


<input checked="" type="checkbox"/>	Original for Recipient
<input type="checkbox"/>	Duplicate for Supplier/Transporter
<input type="checkbox"/>	Triplicate for Supplier

Reverse Charge	11	PO no. 09, Dt. 30.03.2019,	Transportation Mode	Road (Paid By: Potode Traders & Engg. Services)
Invoice No.	11/06/2019	Department: MEDA Grant- Engineering Section	Vehicle Number	
Invoice Date	MAHARASHTRA	STATE CODE	Date of Supply	11/06/2019
State		27	Place of Supply	Engineering Section, SGBAU, Amravati

Details of Receiver Billed to:					Details of Consignee Shipped to:				
Name	Deputy Registrar (Store)				Name	Deputy Registrar (Store)			
Address	Sant Gadge Baba Amravati University, Amravati				Address	Sant Gadge Baba Amravati University, Amravati			
GSTIN	27AAAJ3254J1ZW				GSTIN	27AAAJ3254J1ZW			
State	MAHARASHTRA	STATE CODE	27		State	MAHARASHTRA	STATE CODE	27	

Sr. no	Name of Product / Service	HSN ACS	UOM	Qty	Rate	Amount	Less: Discount	Taxable Value	CGST		SGST		IGST		Total	
									Rate	Amount	Rate	Amount	Rate	Amount		
1	Gorilla Efficio Ceiling Fan 1200MM - Ivory Item ID: GFS21200RG-IV	84145120	Nos.	504.00	2848.31	1435545.76	0.00	1435545.76	9.00%	129199.12	9.00%	129199.12	0.00%	0.00	1693944.00	
2	Gorilla Efficio+ Ceiling Fan 1200MM - Sand Grey Item ID: GFP11200RG-SG	84145120	Nos.	33.00	3272.03	107977.12	0.00	107977.12	9.00%	9717.94	9.00%	9717.94	0.00%	0.00	127413.00	
As per PO Specification details enclosed				TOTAL	537.00	6120.34	1543522.88	0.00	1543522.88		138917.06		138917.06		0	1821357.00

Total Invoice Amount in Words: Rupees Eighteen Lakh and Fifty one thousand three hundred fifty seven only		Total Amount Before Tax	1543522.88
: Bank Details :		Add : CGST	138917.06
Bank Name	HDFC Bank	Add : SGST	138917.06
Branch	Rasik Plaza, Jay Stambh Square	Add : IGST	0.00
Bank Account Number	50200022080790	Tax Amount : GST	277834.12
Bank Branch IFSC	HDFC0000257	Total Amount After Tax :	1821357.00
: Terms and Conditions :		E. & O.E.	

2 years warranty provided by Atomberg Technology Pvt. Ltd. (To avail service under warranty follow the instructions on warranty card inside the box)		Receiver's Signature and stamp
Service Station No : 8448449442 Equipment serial nos. attached here		
<p style="text-align: center;">Potode Traders & Engineering Services</p>  <p style="text-align: center;">Proprietor</p>		<p style="text-align: center;">Potode Traders & Engineering Services</p> <p style="text-align: center;">Proprietor</p>

POTODE TRADERS AND ENGINEERING SERVICES
Siddharth Complex Opposite Rajapeth Police Station Amravati Maharashtra-444605, India
GSTIN 27AZSP5793Q1ZW

INVOICE

Original for Receipt
 Duplicate for Supplier/Transporter
 Triplicate for Supplier

Reverse Charge 12 PO no. 10, Dt. 30.03.2019, Department: RUSA Grant- Engineering Section
 Invoice No. 11/06/2019
 Invoice Date MAHARASHTRA STATE CODE 27
 State MAHARASHTRA

Transportation Mode Road (Paid By: Potode Traders & Engg. Services)
 Vehicle Number
 Date of Supply 11/06/2019
 Place of Supply Engineering Section, SGBAU, Amravati

Details of Receiver | Billed to:
 Name Deputy Registrar (Store)
 Address Sant Gadge Baba Amravati University, Amravati
 GSTIN 27AAAJ53254J1ZW
 State MAHARASHTRA STATE CODE 27

Details of Consignee | Shipped to:
 Name Deputy Registrar (Store)
 Address Sant Gadge Baba Amravati University, Amravati
 GSTIN 27AAAJ53254J1ZW
 State MAHARASHTRA STATE CODE 27

Sr. no	Name of Product / Service	HSN ACS	UOM	Qty	Rate	Amount	Less: Discount	Taxable Value	CGST		SGST		IGST		Total	
									Rate	Amount	Rate	Amount	Rate	Amount		
1	Gorilla Efficio Ceiling Fan 1200MM - Ivory Item ID: GFS21200RG-IV	84145120	Nos.	747.00	2848.31	2127683.90	0.00	2127683.90	9.00%	191491.55	9.00%	191491.55	0.00%	0.00	2510667.00	
2	<i>As per PO Specification details copy enclosed</i>															
					747.00	2848.31	2127683.90	0.00	2127683.90		191491.55		191491.55		0	2510667.00

Potode Traders & Engineering Services


Total Invoice Amount in Words:
 Rupees Twenty five lakhs and six hundred sixty seven only

Total Amount Before Tax	2127683.90
Add : CGST	191491.55
Add : SGST	191491.55
Add : IGST	0.00
Tax Amount : GST	382983.10
Total Amount After Tax :	2510667.00

Bank Details :
 Bank Name HDFC Bank
 Branch Rasik Plaza, Jay Stambh Square
 Bank Account Number 50200022080790
 Bank Branch IFSC HDFC0000257

Terms and Conditions :
 3 years warranty provided by Atomberg Technology Pvt. Ltd.
 (To avail service under warranty follow the instructions on warranty card inside the box)
 Service Station No.: 8448449442
 Equipment serial nos. attached here

Receiver's Signature and stamp

GST Payable on Reverse Charge :
Potode Traders & Engineering Services

 Proprietor
 POTODE TRADERS AND ENGINEERING SERVICES
 ory

94
 119
 116
 126
 136

5/12

Note :-

POTODE TRADERS AND ENGINEERING SERVICES
Siddharth Complex Opposite Rajapeth Police Station Amravati Maharashtra-444605, India
 GSTIN 27AZSPP5793Q1ZW

INVOICE

Original for Receipt
 Duplicate for Supplier/Transporter
 Triplicate for Supplier

Reverse Charge	Invoice No. 31	PO no. 03, Dt. 09.09.2019,	Transportation Mode	Road (Paid By: Potode Traders & Engg. Services)
	Invoice Date 10/09/2019	Department: MEDA Grant- Engineering Section	Vehicle Number	
	State MAHARASHTRA	STATE CODE 27	Date of Supply	10/09/2019
	Details of Receiver Billed to:		Place of Supply	Engineering Section, SGBAU, Amravati

Name	Deputy Registrar (Store)	Name	Deputy Registrar (Store)
Address	Sant Gadge Baba Amravati University, Amravati	Address	Sant Gadge Baba Amravati University, Amravati
GSTIN	27AAAJ3254J1ZW	GSTIN	27AAAJ3254J1ZW
State	MAHARASHTRA	State	MAHARASHTRA
	STATE CODE 27		STATE CODE 27

Sr. no	Name of Product / Service	HSN ACS	UOM	Qty	Rate	Amount	Less: Discount	Taxable Value	CGST		SGST		IGST		Total
									Rate	Amount	Rate	Amount	Rate	Amount	
1	Gorilla Efficio Ceiling Fan 1200MM - Ivory Item ID: GFS21200RG-IV (Description of item attached seperately with this bill)	84145120	Nos.	129.00	2848.31	367431.36	0.00	367431.36	9.00%	33068.82	9.00%	33068.82	0.00%	0.00	433569.00
TOTAL				129.00		367431.36	0.00	367431.36		33068.82		33068.82		0	433569.00

Total Invoice Amount in Words: Rupees Four Lakh Thirty Three Thousand Five Hundred Sixty Nine Only


Bank Details :
 Bank Name: HDFC Bank
 Branch: Rasik Plaza, Jay Stambh Square
 Bank Account Number: 50200022080790
 Bank Branch IFSC: HDFC0000257

Material Delivered
 129 nos. of 1200 mm Ivory color Gorilla Fans

Total Amount Before Tax	367431.36
Add : CGST	33068.82
Add : SGST	33068.82
Add : IGST	0.00
Tax Amount : GST	66137.64
Total Amount After Tax :	433569.00
E. & O.E.	

Terms and Conditions :
 3 years warranty provided by Atomberg Technology Pvt. Ltd.
 (To avail service under warranty follow the instructions on warranty card inside the box)
 Service Station No: 844844844

Receiver's Signature and stamp

GST Payable on Reverse Charge

 FOR POTODE TRADERS AND ENGINEERING SERVICES
 Autotised Signatory

30
 10/10/19
 10.10.19
 J.E. (S)
 Sh. Shashin
 10.10.19
 01 word - 2645
 16/10/19
 G/C

**Sant Gadge Baba
AMRAVATI UNIVERSITY**

ST/Eng/698/or 53/07-98/2TH
Form No. 23 (Final)

NOTES

*Reference of P.W.D. Manual
(chap V. Paras. 328 and 329)*

(For contractors and Suppliers - To be used when a single payment is made for a job or contract i. e. only on its completion A sing's form may be used generally for making first and final payments of severla works or supplies if they pertain to the same time. A single form may also be use for making first and final payment to several piece workers or Suppliers if they relate to the same work and billed fer at the same time. In this case column 2 shold be sub divided in two parts the first part for "Names of piece-workers" etc and the second for "Items of work etc." and the specc in remarks column used for obtaineing acceptance of the bill and acknowledgments of amounts paid to different piece-workers, or suppliers.

1. In the case of payments to Suppliers red ink entry should be made across the page above the entries relating there to in one of the following forms applicable to the case (i) Stock, (ii) Purchase stock, (iii) Purchases for direct issue to work
(iv) Purchases for the work issued t Contractor on

2. In the case of works the account of which are kept by sub-hedas the amount relating to all items of works falling under the same "sub-heads" should be totled in red ink.

3. Payment should be atested by some known person when the payees acknowledgment is given by mark, seal or thumb-impression.

4. The person actually making the payment should initials and date the column provided for the purpose aganinst each payment.

Transactions of Road side materials entered in the statements of receipt, issues and balance of Road metal

Clerk:
(For use in Fianance Section)

Checked
Accounts clerk,

* Strike out words which are not applicable

DIVISION-

SUB-DIVISION-

First and Final Bill

CASHBOOK VOUCHER NO.

For 19

Name of Contractor/Piece-worker/Supplier

M/S MURARKG traders, Yavatmal.

Agreement/Rate List/Requisition

W.O. No. & date:- 56/2019, dt 28/8/19

No.

date of completion:- 10/9/2019

Name of works--

Implementation of Energy conservation Technology pilot project
at Sant Gadge Baba Amravati
university campus, Amravati.

(For use in Office)

Computed.

Classification.

Reviewed.

Checked with
schedule of
rates.

Checked

Reviewed

Audited

Superintendent

Auditor.

First & Final Bill

Name of Work :- Implementation of Energy Conservation Technology Pilot Project at Sant Gadge Baba Amravati University Campus, Amravati

Name of Agency :- M/s Murarka Traders, Pandharkawada, Dist. Yavatmal

Work Order No. & date :- 56/2019 Dt.28/08/2019


Date of Completion :- 10/9/2019

PAN No of Contractor :- BQQPM6707H

GST No of Contractor :- 27BQQPM6707H1ZD

Sr. No.	Qty.	Item	Unit	Rate	Amount
1	666	Erection of departmentally supplied ceiling fan with necessary materials complete CSR No.2/13/7	Each	90.00	59940.00
2	1320	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00	784080.00
3	1148	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00	300776.00
4	666	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. CSR No.2/14/4	Each	31.00	20646.00
	1320	Dismantling of existing fluorescent fittings of any type & size. CSR No.2/14/1	Each	13.00	17160.00
					1182602.00
31.01% Below					366724.88
					815877.12
					Say 8,15,877/-

Measurement are recorded in M.B. No.181 on Page No.19 & 22


 Jyoti Engineer (Elect.)
 Sant Gadge Baba Amravati University

Calculation

(i)	Amount of work without GST		815877.00
(ii)	GST 12% (Exclusive)		97905.24
(iii)	Amount of work		913782.24
	Deduction		
	a) Security Deposit 2.5%		
	Contractor initially deposit Rs.29000/- vide M.R.No.275557 Dt.28/8/2019	29000.00	
	b) Income Tax 2%		16318.00
	c) TDS 2%		16318.00
	d) Labour Cess 1%		8159.00
	Total Deduction (a+b+c+d)		69795.00
(iv)	Net payment to Contractor (I+(ii)-(iii))		843987.24
	(Rs.Eight Lakh Forty Three Thousand Nine Hundred & Eighty Seven only)	Say @	8,43,987/-

I agree to above payment & deduction

Shri Murarka Traders

Amuralkh
Proprietor 3/12/19

Contractor

Certificate

Certified that the work is carried out as per items specifications and the quality of executed work is good. Measurement and materials are checked and found correct. The bill is arithmetically and technically checked and found correct. Hence the bill is fit for payment.

Redle
27.12.19
University Deputy Engineer (E)
Sant Gadge Baba Amravati University

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

Allocation

- (I) General Fund 2019-20
32) Energy Conservation - Rs.6,68,708/-
- (II) MEDA Grant. - Rs.2,45,074/-

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

First and Final Bill

Name of Work :- Renovation to the Electrical installation at Life Long Learning Department at Sant Gadge Baba Amravati University Campus, Amravati.

(ii) Name of Agency :- M/s. Swabhiman Vijnantrik Nagari Seva Sahakari Sanstha, Amravati.

(iii) Work Order No. :- 52/2019, Dt. 28/08/2019

(iv) Date of Completion :- 05/10/2019

(v) Pan no. of Contractor :- AAJAS4256N

(vi) GST no. of Contractor :- 27AAJAS4256N2ZT

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Providing & erecting 4 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/1, Note 1	Each	5408.40	5408.40
2	1	Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP. CSR No.5/1/12	Each	2550.00	2550.00
3	1	Supplying and erecting static energy meter 440 V 50 Hz, 100A ISI mark meter AC 3 phase 4 wires LCD/LED display complete erected on polished teak wood board duly wired with required size of weather proof FVC wires duly tested for class II accuracy by electric supply company CSR No.6/3/4	Each	5638.00	5638.00
4	2	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00	4064.00
5	5	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/ flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/19	Each	1270.00	6350.00
6	9.95	Supplying, erecting & terminating XLPE armoured cable 4 core 16 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/34	Mtr	734.00	7303.30
7	RR 25.36 FR 62.30	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/7	Mtr	RR 73.00 FR 102.00	1851.28 6354.60
8	RR 27.99 FR 165.55	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW CSR No.1/3/3	Mtr	RR 35.00 FR 53.00	979.65 8774.15
9	62.30	Supplying & erecting mains with 1x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW CSR No.1/3/5, Note 3	Mtr	36.50	2273.95
10	RR 27.99 FR 190.91	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	RR 17.50 FR 26.50	489.82 5059.11
11	2	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete. CSR No.5/3/25	Each	621.00	1242.00
12		Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete.			

3	5	CSR No.5/3/20 Supplying, erecting & marking SPMCB 6A to 32A. C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Each	275.00	1375.00
4	43	CSR No.5/3/2 Supplying, erecting & marking SPMCB 6A to 32A. B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	153.00	6579.00
15	30	CSR No.5/3/3 Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	Each	164.00	4920.00
16	180.10	CSR No.1/2/11 Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary	Mtr	42.00	7564.20
17	76.00	CSR No.2/10/14 Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet. T8 LED tube light (excluding tube light).	Each	594.00	45144.00
18	76.00	CSR No.2/1/1 Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire	Each	262.00	19912.00
19	26	CSR No.2/13/6 Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.	Mtr	204.00	5304.00
20	0	CSR No.2/13/3 Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire. modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Each	179.00	0.00
21	113	CSR No.1/9/25 Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	433.00	48929.00
22	201	CSR No.1/9/25. Note 1 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected	Mtr	43.30	8703.30
23	46	CSR No 1/8/32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	310.00	14260.00
24	4	CSR No 1/8/30 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	211.00	844.00
25	50	CSR No.1/8/11 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	157.00	7850.00
26	50	CSR No.1/8/2 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	88.00	4400.00
27	153	CSR No.1/8/10 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	Each	106.00	16218.00
28	153	CSR No.1/8/1 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	65.00	9945.00
29	1	CSR No.9/1/1 Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required. As per specification no EA-EP.	Each	3931.00	3931.00
	0	CSR No.9/2/3	Kg	191.00	0.00

	0	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades. wire mesh. duly erected in an approved manner CSR No.2/12/13	Each	1268.00	0.00
	0	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame. metal mesh to avoid birds entry with necessary material. suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC CSR No.2/13/14	Each	956.00	0.00
	0	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W. duly erected on provided plate and box with wiring connections complete CSR No.1/8/20	Each	225.00	0.00
	0	Supplying & erecting 10-12W. 230V integral type LED Lamp suitable for B-22/E-27 base. CSR No.2/10/11	Each	218.00	0.00
	3	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp. including lamp. with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF/FLS2. CSR No.2/5/3	Each	2605.00	7815.00
5	3	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB CSR No.2/9/4	Each	667.00	2001.00
36	2	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size CSR No.2/4/13	Each	123.00	246.00
37	2	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete CSR No.1/8/3	Each	95.00	190.00
38	0	Supplying and erecting blanking plate of suitable size on MCB DEI complete. CSR No.5/4/24	Each	12.00	0.00
39	10	Supplying and erecting ISI mark modular type blanking plate one module. duly erected on provided plate & box. CSR No.1/8/24	Each	18.00	180.00
40	0	Supplying and erecting iron. sheet metal work consisting of CRCA sheets. various sections of iron. plates. chequered plates. rods. bars. MS pipes. etc. for panel board or any other purpose with bending. cutting. drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority. CSR No.6/1/19	Kg	131.00	0.00
41	36	Dismantling of existing fluorescent fittings of any type & size. CSR No.2/14/1	Each	13.00	468.00
42	26	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod. frame etc. and making the site clear. CSR No.2/14/4	Each	31.00	806.00
43	2	Dismantling the existing W.T. fluorescent fitting / S.V./ M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete CSR No.2/14/2	Each	31.00	62.00
44	68	Dismantling the existing light. fan. bell. clock. independent plug point. wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW CSR No.1/15/1	Point	7.00	476.00
45	0	Supplying and erecting SS enclosure for MCCB suitable for upto 100A MCCB complete CSR No.5/11/17	Each	836.00	0.00

First & Final Bill

Name of Work :- Implementation of Energy Conservation Technology Pilot Project at Sant Gadge Baba Amravati University Campus, Amravati

Name of Agency :- M/s Murarka Traders, Pandharkawada, Dist. Yavatmal

Work Order No. & date :- 56/2019 Dt.28/08/2019


Date of Completion :- 10/9/2019

PAN No of Contractor :- BQQPM6707H

GST No of Contractor :- 27BQQPM6707H1ZD

Sr. No.	Qty.	Item	Unit	Rate	Amount
1	666	Erection of departmentally supplied ceiling fan with necessary materials complete CSR No.2/13/7	Each	90.00	59940.00
2	1320	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00	784080.00
	1148	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00	300776.00
3	666	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. CSR No.2/14/4	Each	31.00	20646.00
4	1320	Dismantling of existing fluorescent fittings of any type & size. CSR No.2/14/1	Each	13.00	17160.00
					1182602.00
31.01% Below					366724.88
					815877.12
					Say 8,15,877/-

Measurement are recorded in M.B. No.181 on Page No.19 & 22


 Junior Engineer (Elect.)
 Sant Gadge Baba Amravati University

Calculation

(i)	Amount of work without GST	
(ii)	GST 12% (Exclusive)	815877.00
(iii)	Amount of work	97905.24
		913782.24
	Deduction	
	a) Security Deposit 2.5%	
	Contractor initially deposit Rs.29000/- vide M.R.No.275557 Dt.28/8/2019	29000.00
	b) Income Tax 2%	16318.00
	c) TDS 2%	16318.00
	d) Labour Cess 1%	8159.00
	Total Deduction (a+b+c+d)	69795.00
(iv)	Net payment to Contractor (I+(ii)-(iii))	843987.24
	Say @	8,43,987/-
	(Rs.Eight Lakh Forty Three Thousand Nine Hundred & Eighty Seven only)	

Shri Murarka Traders

I agree to above payment & deduction

Amurka
Proprietor 3/12/19

Contractor

Certificate

Certified that the work is carried out as per items specifications and the quality of executed work is good. Measurement and materials are checked and found correct. The bill is arithmetically and technically checked and found correct. Hence the bill is fit for payment.

Redle
27.12.19
University Deputy Engineer (E)
Sant Gadge Baba Amravati University

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

Allocation

- (I) General Fund 2019-20
32) Energy Conservation - Rs.6,68,708/-
- (II) MEDA Grant. - Rs.2,45,074/-

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

First and Final Bill

Name of Work :- Electrical Renovation of old Barrack at Sant Gadge Baba Amravati University, Amravati.

(ii) Name of Agency. :- M/s. Krushna Electricals, Amravati.

(iii) Work Order No. :- 27/2019, Dt. 20/07/2019

(iv) Date of Completion :- 07/11/2019

(v) Pan no. of Contractor :- AABPW5142L

(vi) GST no. of Contractor :- 27AABPW5142L1ZC

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Providing & erecting 4 Pole MCCB of 200A,415V capacity with short circuit rating 25 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/2, Note 1	Each	10810.80	10810.80
2	1	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 4 pole above 100A upto 250A MCCB complete. (Set of 8) CSR No.5/11/7	Set	1036.00	1036.00
3	1	Supplying and erecting SS enclosure for MCCB suitable for 125A to 200A MCCB complete. CSR No.5/11/18	Each	1382.00	1382.00
4	2	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of 12 ways, on iron/ GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/10	Each	4292.00	8584.00
5	1	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00	2032.00
6	1	Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete CSR No.5/4/23	Each	339.00	339.00
7	1	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A. 2 pin plug & earth socket and 20A. 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ GI frame. CSR No.5/4/20	Each	700.00	700.00
8	2	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete. CSR No.5/3/26	Each	776.00	1552.00
9	8	Supplying, erecting & marking TPMCB 40A to 63A in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/15	Each	926.00	7408.00
10	1	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete CSR No.5/3/25	Each	621.00	621.00
11	1	Supplying, erecting & marking FPMCB 40A to 63A in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/17	Each	1232.00	1232.00
12	21	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/2	Each	153.00	3213.00
13	7	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00	1148.00
14	0	Supplying and erecting blanking plate of suitable size on MCB DB complete CSR No.5/4/24	Each	12.00	0.00

15		Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 6 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/18	Each	1056.00	1056.00
16	1	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/19	Each	1270.00	1270.00
17	1.00	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete. CSR No.5/3/20	Each	275.00	550.00
18	2	Supplying and erecting static energy meter with 3 X 240V 50 Hz. AC supply 10 to 60 A, ISI mark, accuracy class 1.0 with backlit LCD display, (measuring and display kWh only) with transparent hinge type box complete erected on polished teak wood board duly wired with required size of weather proof PVC wires duly tested by electric supply company. CSR No.6/3/3	Each	3952.00	7904.00
19	2	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP CSR No.9/1/1	Each	3931.00	15724.00
20	4	Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required. As per specification no EA-EP. CSR No.9/2/3	Each	191.00	2884.86
21	15.104	Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner. CSR No.9/2/5	Kg	136.00	0.00
22	0	Supplying, erecting & terminating XLPE armoured cable 4 core 16 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/34	Mtr	734.00	25690.00
23	35	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/33	Mtr	512.00	5734.40
24	11.20	Supplying & erecting mains with 4x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.2 x 1/3/7	Mtr	204.00	0.00
25	0	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No. 1/3/7	Mtr	102.00	3121.20
26	30.60	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/5	Mtr	73.00	3000.30
27	41.10	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr		

28	282.90	CSR No.1/3/3 Supplying & erecting mains with 1x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	53.00	14993.70
29	0	CSR No.1/3/5, Note 3 Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	36.50	0.00
30	346	CSR No.1/3/3, Note 3 Supplying and erecting HMS PVC conduit 20 mm dia. with PVC accessories on wall / ceiling as per specification No: WGMA/CON.	Mtr	FR → 26.50 RR → 18.50	169.00
31	49.55	CSR No.1/2/6 Supplying and erecting HMS PVC conduit 25 mm dia. with PVC accessories on wall /ceiling as per specification No: WG-MA/CON.	Mtr	67.00	3319.85
32	48.55	CSR No.1/2/7 Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	Mtr	76.00	3689.80
33	5	CSR No.1/2/1 Supplying and erecting UPVC reinforced flexible conduit 25 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.	Mtr	74.00	370.00
34	0	CSR No.1/2/2 Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	Mtr	84.00	0.00
35	163.20	CSR No.1/2/11 Concealing of provided G.I. pipe/H.G. screwed conduit/PVC pipe in wall/floor/false ceiling complete as per specification No: WG-PW/CW	Mtr	42.00	6854.40
36	67.35	CSR No.1/1/13 Concealing of provided M.S./ PVC switch box in wall with finishing as per specification No: WG-PW/CW	Mtr	57.00	3838.95
37	25	CSR No.1/9/20 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	52.00	1300.00
38	16	CSR No.1/8/11 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	157.00	2512.00
39	16	CSR No.1/8/2 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	Each	88.00	1408.00
40	26	CSR No.1/8/1 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	65.00	1690.00
41	26	CSR No.1/8/10 Supplying and erecting PVC Surface modular switch box with double mounting plate for 3 modules duly erected.	Each	106.00	2756.00
42	0	CSR No.1/8/28 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	141.00	0.00
43	12	CSR No.1/8/30 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.	Each	211.00	2532.00
44	1	CSR No.1/8/32 Supplying and erecting ISI mark modular type blanking plate two module, duly erected on provided plate & box.	Each	310.00	310.00
	2	CSR No.1/8/25	Each	23.00	46.00

7865.20
910.20
8775.40

45		Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size			
	1	CSR No.2/4/13	Each	123.00	123.00
46		Supplying and erecting ISI mark modular type buzzer 220 / 250V, duly erected on provided plate and box with wiring connections complete			
	0	CSR No.1/8/19	Each	98.00	0.00
47		Supplying and erecting ISI mark modular type bell-push with indicator 2 modules 6A / 10A, duly erected on provided plate and box with wiring connections complete.			
	1	CSR No.1/8/4	Each	116.00	116.00
48		Point wiring for light/fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/HW			
	120	CSR No.1/9/15	Point	444.00	53280.00
49		Extra length Point wiring for light/fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/HW			
	250	CSR No.1/9/15, Note 1	mtr	44.40	11100.00
50		Wiring for plug on board with Switch socket concealed type, copper wiring and earthing and with modular accessories as per specification No: WG-PW/CW			
	0	CSR No.1/9/14	Point	441.00	0.00
51		Point wiring for independent plug, concealed type in min 20 mm ISI marked HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wires, modular type switch and socket, earthing and required accessories as per specification No WGPW/SW			
	0	CSR No.1/9/11	Point	628.00	0.00
52		Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.			
	33	CSR No.2/10/14	Each	594.00	19602.00
53		Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).			
	33	CSR No.2/1/1	Each	262.00	8646.00
54		Supplying and erecting LED Flood light fitting of 50W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FGODF/FLS-2			
	3	CSR No.2/5/13	Each	3894.00	11682.00
55		Supplying and erecting LED Flood light fitting of 70-80W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
	2	CSR No.2/5/14	Each	7039.00	14078.00
56		Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.			
	13.78	CSR No.6/1/19	Kq	131.00	1805.18

57		Supplying and erecting LED Flood light fitting of 150W, including lamp, with IP - 65, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-OD/FLS-2 CSR No.2/5/17	Each	14525.00	14525.00
58	1	Providing and erecting bracket fan 400 mm. sweep A. C. 230 volts 50 cycles 1350 R.P.M. Oscillating type, plastic or metal blades chrome plated guard with regulator and moisture proof treatment to winding and with 'E' class insulation. CSR No.2/12/4	Each	1940.00	0.00
59	0	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire CSR No.2/13/6	Mtr	204.00	7056.44
60	34.36	Supplying and erecting double suspension heavy duty lacquered iron chain with hooks for erecting fluo. tube light fitting (for erecting various fixtures like FTL, LED, etc) with necessary shielded copper flexible wire three core of 1 sq mm for connecting leads. (for measurements half of the actual length used)			
61	0	CSR No.2/4/6 Supplying and erecting exhaust fan heavy duty 230 V, A.C. 50 cycles 375/380 mm. 900 RPM complete erected in position as per specification no. FG-FN/EXF	Mtr	40.00	0.00
62	0	CSR No.2/12/16 Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	3123.00	0.00
63	0	CSR No.2/12/13 Supplying & erecting 22 SWG G.I. sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 400 mm as per specification no FG-FAS/MSC	Each	1288.00	0.00
64	0	CSR No.2/13/15 Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 225 mm.	Each	1078.00	0.00
65	0	CSR No.2/13/11 Supplying & erecting 22 SWG G.I. sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	Each	327.00	0.00
66	0	CSR No.2/13/14 Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	958.00	0.00
67	0	CSR No.1/8/20 Dismantling of existing fluorescent fittings of any type & size.	Each	225.00	0.00
68	40	CSR No.2/14/1 Dismantling the existing ceiling fan / exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	Each	13.00	520.00
69	25	CSR No.2/14/4 Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Each	31.00	775.00
70	70	CSR No.1/15/1 Dismantling the existing aluminium /copper mains, submains wiring upto 10 sq.mm. along with accessories etc complete as per specification No: WG-DM/PW	Point	7.00	490.00
	180	CSR No.1/15/3	Mtr	3.00	540.00

71		Erection of departmentally supplied ceiling fan with necessary materials complete			
	46	CSR No.2/13/7	Each	90.00	4140.00
	(B)	Credit for dismantled material			
1	0	All types of Fluorescent/LED tube light fittings			
		CSR No.19/1/19	Each	14.00	0.00
2	0	All types of Fan			
		CSR No.19/1/12	Each	161.00	0.00
3		I.C. / M.C. switches / D.P. / D.B./ T.P. / feeder pillar etc.			
	5	CSR No.19/1/9	Kg	18.00	90.00
4		PVC armoured/unarmoured cables and wires (Aluminium)			
	32	CSR No.19/1/1	Kg	15.00	480.00
5		PVC armoured/unarmoured cables and wires (Copper)			
	22	CSR No.19/1/2	Kg	63.00	1386.00
6		PVC pipes/materials			
	20	CSR No.19/1/7	Kg	8.00	160.00
7		Street/flood light fittings.			
	0	CSR No.19/1/20	Each	56.00	0.00
					2116.00
		Total (A) - (B)		Rs. (a)	308098.88

309821.28

307705.28

Name of Work :- Extra items for Electrical renovation of old barrack, Sant Gadge Baba Amravati

Sno.	Qty	Item	Unit	Rate	Amount
1	74	Supplying and erecting square / round shaped CRCA /die-cast aluminium powder coated housing LED panel (slim edge-lit) light suitable for 13W to18W with provision for plane front frame with translucent cover fixed to the housing complete	Each	930.00	68820.00
2	8	Supplying and erecting LED square / circular 16 to 20W down lighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete	Each	RR 743.00 FR 1216.00	5944.00
3	34	Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.	Each	180.00	6120.00
4	24	Supplying & erecting porcelain/epoxy bus bar support complete erected in provided MS box for 100A complete	Each	59.00	1416.00
5	8	Supplying and erecting HMS PVC conduit 32 mm dia. with PVC accessories on wall / ceiling as per specification No: WG-MA/CON	Mtr	118.00	944.00
6	15	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	RR 437.00 FR 622.00	6555.00
7	0	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Mtr	62.20	0.00
				Rs. (b)	89799.00

Second & Final Bill

Name of Work :- Renovation to the electrical installation of Administrative Building at Sant Gadge Baba

Amravati University Campus, Amravati.

(ii) Name of Agency :- M/s. Shree Services, Amravati.

(iii) Work Order No - 76/2019, Dt 21/09/2019

(iv) Date of Completion - 24/07/2020

(v) Pan no. of Contractor :- ABE-PP2997E

(vi) GST no. of Contractor :- 27ABE-PP2997E-1ZC.

Sno.	Qty	Item	Unit	Rate	Amount
1	0	Providing & erecting Hot dipped galvanized ladder type cable tray manufactured from 16 swg (1.6 mm thick) GI sheet of 150 mm width & 100 mm height comprising all required standard accessories. CSR No.7/11/1	Mtr	630.00	0.00
2	0	Providing & erecting 3 Pole MCCB of 250A, 115V capacity with short circuit rating 36 kA (les 100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads. provision for installation of shunt UV trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron GI frame as per specification no. SW-SWR MCCB CSR No.5/5/3	Each	12264.00	0.00
3	1	Providing & erecting 3 Pole MCCB upto 100A, 115V, with short circuit rating 25 kA (les 100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads. provision for installation of shunt UV trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron GI frame as per specification no. SW-SWR MCCB CSR No.5/5/1	Each	4507.00	4507.00
4	0	Supplying and erecting SS enclosure for MCCB suitable for 125A to 200A MCCB complete. CSR No.5/11/18	Each	1382.00	0.00
5	0	Supplying and erecting SS enclosure for MCCB suitable for upto 100A MCCB complete CSR No.5/11/17	Each	836.00	0.00
6	0	Supplying, erecting & terminating XLPE armoured cable 3½ core 70 sq. mm. copper conductor with continuous 8.35 sq. mm. (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/AL CSR No.7/2/23	Mtr	2753.00	0.00
7	0	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 250A MCCB complete. (set of 6) CSR No.5/11/2	Set	799.00	0.00
8	1	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB complete. (set of 6). CSR No.5/11/1	Set	169.00	169.00
9	0	Supplying and erecting triple pole metal clad switch and fuse 415V, 100A with neutral link on angle iron / GI frame as per specification no. SW-SWR/MIP. CSR No.5/1/13	Each	4810.00	0.00
10	0	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LI/CU CSR No.7/2/33	Mtr	512.00	0.00
11	1	Supplying & erecting triple pole and neutral distribution board (IPNDB) with door surface/ flush mounted SP / TP MCBs of 12 ways, on iron/ GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/10	Each	4292.00	4292.00
12	5	Supplying & erecting triple pole and neutral distribution board (IPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00	10160.00
13	0	Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete. CSR No.5/4/23	Each	331.00	0.00

14		Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/GI frame as per specification no. SW-SWR/MBDB			
15	22	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete.	Each	1270.00	27940.00
16	1	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete.	Each	776.00	776.00
17	5	Supplying, erecting & marking 1PMCB 40A to 63A in provided distribution board as per specification no. SW-SWR/MB	Each	621.00	3105.00
18	4	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete	Each	926.00	3704.00
19	22	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MB	Each	275.00	6050.00
20	172	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MB	Each	153.00	26316.00
21	105	Supplying and erecting blanking plate of suitable size on MCB DB complete	Each	164.00	17220.00
22	12	Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box	Each	12.00	144.00
23	146	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	Each	18.00	2628.00
24	235.75	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	102.00	24046.50
25	215.95	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	73.00	15764.35
26	1046.75	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	53.00	55477.75
27	1764.89	Supplying and erecting PVC trunking (PVC casing-neapping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	Mtr	26.50	46769.59
28	958.12	Supplying & erecting ready to use Retrofit 18 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to 18 / T12 LED luminaire by disconnecting starter & ballast if necessary.	Each	594.00	180576.00
29	304	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, 18 LED tube light (excluding tube light).	Each	262.00	71264.00
30	272	Supplying and erecting 'B' grade GI pipe / MS pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq mm copper PVC wire.	Mtr	204.00	9679.80
	47.45				

31	Supplying and erecting fan clamp of 30 x 5 mm M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm M.S. round bar and painted. CSR No.2/13/3	Each	RR 101.00 FR 179.00	1818.00
32	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner. CSR No.2/12/13	Each	1268.00	12680.00
33	Supplying & erecting 22 SWG G.I. sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-1 AS MS CSR No.2/13/11	Each	956.00	4780.00
34	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 - 450W, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/20	Each	RR 203.00 FR 225.00	4669.00
35	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block sumrica block of suitable size CSR No.2/4/13	Each	123.00	1599.00
36	Supplying and erecting bakelite call bell with 6 cm / buzzer with double coil suitable for 230V complete erected on PVC block. CSR No.2/4/11	Each	69.00	0.00
37	Supplying & erecting 18W, 230V integral type LED Lamp suitable for B-22 E-27 base. CSR No.2/10/13	Each	369.00	0.00
38	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base. CSR No.2/10/11	Each	218.00	2180.00
39	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No. FGODE/FLS2. CSR No.2/5/3	Each	2605.00	10420.00
40	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FGODE/FLS2. CSR No.2/5/4	Each	3457.00	13828.00
41	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BK1/WB CSR No.2/9/4	Each	667.00	5336.00
42	Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODE/FLS-2 CSR No.2/5/15	Each	9504.00	19008.00
43	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) ER grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/25	Point	433.00	211304.00
44	Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) ER grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/25, Note 1	Mtr	43.30	11407.39
45	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) ER grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/29	Point	613.00	4291.00

31	Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.			
18	CSR No.2/13/3	Each	RR 101.00 FR 179.00	1818.00
32	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.			
10	CSR No.2/12/13	Each	1268.00	12680.00
33	Supplying & erecting 22 SWG G.I sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-I AS MSC			
5	CSR No.2/13/14	Each	956.00	4780.00
34	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.			
23	CSR No.1/8/20	Each	RR 203.00 FR 225.00	4669.00
35	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size			
13	CSR No.2/4/13	Each	123.00	1599.00
36	Supplying and erecting bakelite call bell with 6 cm / buzzer with double coil suitable for 230V complete erected on PVC block.			
0	CSR No.2/4/11	Each	69.00	0.00
37	Supplying & erecting 18W, 230V integral type LED Lamp suitable for B-22/E-27 base.			
0	CSR No.2/10/13	Each	369.00	0.00
38	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.			
10	CSR No.2/10/11	Each	218.00	2180.00
39	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No. FGODF/FLS2.			
4	CSR No.2/5/3	Each	2605.00	10420.00
40	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FGODF/FLS2.			
4	CSR No.2/5/4	Each	3457.00	13828.00
41	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BK1/WB			
8	CSR No.2/9/4	Each	667.00	5336.00
42	Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
2	CSR No.2/5/15	Each	9504.00	19008.00
43	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1) FR grade copper wire, modular type switch, earthing and required accessories as per specification No. WG-PW SW			
488	CSR No.1/9/25	Point	433.00	211304.00
44	Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1) FR grade copper wire, modular type switch, earthing and required accessories as per specification No. WG-PW SW			
263 45	CSR No.1/9/25, Note 1	Mtr	43.30	11407.39
45	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1) FR grade copper wire, modular type switch, earthing and required accessories as per specification No. WG-PW SW			
7	CSR No.1/9/29	Point	613.00	4291.00

46		Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No. WG-PW/SW			
47	7	CSR No.1.9.29, Note 1 Point wiring for light fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No. WGPW/HW	Mtr	61.30	429.10
48	20	CSR No.1.9.15 Extra length Point wiring for light fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit, casing n capping with 1.5 sq mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No. WGPW/HW	Point	444.00	8880.00
49	23.65	CSR No.1.9.15, Note 1 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.	Mtr	44.40	1050.06
50	31	CSR No.1.8.32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	310.00	9610.00
51	20	CSR No.1.8.30 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	211.00	4220.00
52	59	CSR No.1.8.11 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	157.00	9263.00
53	59	CSR No.1.8.2 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	Each	88.00	5192.00
54	211	CSR No.1.8.1 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	65.00	13715.00
55	196	CSR No.1.8.10 Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A, 2 pin plug & earth socket and 20A, 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron / GI frame.	Each	106.00	20776.00
56	5	CSR No.5.4.20 Supplying and erecting square / round shaped CRCA /die-cast aluminium powder coated housing LED panel (slim edge-lit) light suitable for 13W to18W with provision for plane front frame with translucent cover fixed to the housing complete	Each	700.00	3500.00
57	32	CSR No.2.1.8 Making suitable size recess in any type of false ceiling for erection of flush type down lighter and finishing the background to match the original surface upto 20W.	Each	927.00	29664.00
58	32	CSR No.2.1.17 Supplying and erecting HMS PVC conduit 25 mm dia. with PVC accessories on wall /ceiling as per specification No. WG-MA/CON.	Each	65.00	2080.00
59	299.80	CSR No.1.2.7 Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority	Mtr	76.00	22784.80
	3.84	CSR No.6.1.19	Kg	131.00	503.04

HR 67
76.00

60	0	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. CSR No.6/1/2	Sq M	2117.00	0.00
61	2	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP CSR No.9/1/1	Each	3931.00	7862.00
62	0	Providing and erecting bracket fan 400 mm. sweep A. C. 230 volts 50 cycles 1350 R.P.M. Oscillating type, plastic or metal blades chrome plated guard with regulator and moisture proof treatment to winding and with 'E' class insulation. CSR No.9/2/5	Kg	136.00	0.00
63	2	Dismantling the existing cables of all types & size above 10 sq mm up to 50 sq. mm. CSR No.2/12/4	Each	1940.00	3880.00
64	60	Erecting & terminating XLPE armoured cable 3 1/2 core 50 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs. on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL. CSR No.7/12/2	Mtr	19.00	1140.00
65	60	CSR No.7/1/17 (Labour Charges only)	Mtr	RR 28.00 FR 33.00	1680.00
66	28	Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete. CSR No.5/12/1	Each	79.00	2212.00
67	255	Dismantling of existing fluorescent fittings of any type & size CSR No.2/14/1	Each	13.00	3315.00
68	134	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. CSR No.2/14/4	Each	31.00	4154.00
69	8	Dismantling the existing W.T. fluorescent fitting / S.V./ M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete. CSR No.2/14/2	Each	39.00	312.00
70	410	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW CSR No.1/15/1	Point	7.00	2870.00
71	13	Supplying and erecting ISI mark modular type bell-push with indicator 2 modules 6A / 10A, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/4	Each	116.00	1508.00
72	146	Erection of departmentally supplied ceiling fan with necessary materials complete CSR No.2/13/7	Each	90.00	13140.00
					1027890.41
(B)	Credit for dismantled material				
1	0	All types of Fluorescent/LED tube light fittings CSR No.19/1/19	Each	14.00	0.00
2	0	All types of Fan CSR No.19/1/12	Each	161.00	0.00
3	0	Street/flood light fittings. CSR No.19/1/20	Each	56.00	0.00
4	30	PVC armoured/unarmoured cables and wires (Aluminium) CSR No.19/1/1	Kg	15.00	450.00
5	0	PVC armoured/unarmoured cables and wires (Copper) CSR No.19/1/2	Kg	63.00	0.00
6	25	PVC pipes/materials CSR No.19/1/7	Kg	8.00	200.00

20 CSR No.19/19

Kg 18.00 360.00

1010.00

Total (A) - (B)

(A) Rs. 1026880.41

Name of Work :- Excess in quantity for the work of Renovation to the electrical installation of

Sno.	Qty	Item	Unit	Rate	Amount
1		Point wiring for light fan bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing in capping with 1.5 sq.mm. (2+1) IR grade copper wires, modular type switch, earthing and required accessories as per specification No. WG-PW/HW			
2	55	CSR No.19/15	Point	444.00	24420.00
		Extra length Point wiring for light fan bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing in capping with 1.5 sq.mm. (2+1) IR grade copper wires, modular type switch, earthing and required accessories as per specification No. WG-PW/HW			
3	53.40	CSR No.19/15, Note 1	Mtr	44.40	2370.96
		Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A, 2 pin plug & earth socket and 20A, 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron GI frame.			
4	9	CSR No.5/4/20	Each	700.00	6300.00
		Supplying and erecting square / round shaped CRCA / diecast aluminium powder coated housing LED panel (slim edge-lit) light suitable for 13W to 18W with provision for plane front frame with translucent cover fixed to the housing complete.			
5	54	CSR No.2/1/8	Each	927.00	50058.00
		Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking inside pole/Bus bars or any other places as per specification No. WG-MA/BW			
6	130.10	CSR No.1/3/7	Mtr	102.00	13270.20
		Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking inside pole/Bus bars or any other places, as per specification No. WG-MA/BW			
7	136.34	CSR No.1/3/5	Mtr	73.00	9952.82
		Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FG-ODF/F1/S2			
8	3	CSR No.2/5/4	Each	3457.00	10371.00
		Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB			
9	3	CSR No.2/9/4	Each	667.00	2001.00
		Making suitable size recess in any type of false ceiling for erection of flush type down lighter and finishing the background to match the original surface upto 20W			
	24	CSR No.2/1/17	Each	65.00	1560.00
				(B) Rs.	120303.98

Name of Work :- Extra items for the work of Renovation to the electrical installation of Administrative

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking inside pole/Bus bars or any other places as per specification No. WG-MA/BW			
2	403.55	CSR No.1/3/1	Mtr	35.00	14124.25
		Supplying & erecting mains with 1x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking inside pole/Bus bars or any other places as per specification No. WG-MA/BW			
	403.55	CSR No.1/3/1, Note 1	Mtr	17.50	7062.13

First and Final Bill

Name of Work :- Renovation of Electrical installation of Toilet block in Confidential Section, Visava Sthal, & NSS Building at Sant Gadge Baba Amravati University campus, Amravati.
 (ii) Name of Agency :- M/s. Krushna Electricals, Amravati.
 (iii) Work Order No - 04/2020. Dt. 29/01/2020
 (iv) Date of Completion - 25/02/2020
 (v) Pan no of Contractor - AABPW5142L
 (vi) GST no of Contractor - 27AABPW5142L1ZC

Sno.	Qty	Item	Unit	Rate	Amount
1	9	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22 E-27 base CSR No.2/10/11	Each	218.00	1962.00
2	10	Supplying and erecting exhaust fan medium duty 230 V AC 50 cycles 225 mm, 1400 RPM with condenser complete erected in position with necessary materials. Fan motor with moisture proof treatment and 'E' class insulation CSR No.2/12/15	Each	1623.00	16230.00
3	10	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS MSC CSR No.2/13/14	Each	956.00	9560.00
4	12	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/20	Each	225.00	2700.00
5	12	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00	7128.00
6	12	Supplying & erecting decorative pre-wired box type fitting batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00	3144.00
7	39	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2-1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/25	Point	433.00	16887.00
8	17	Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2-1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/25, Note 1	Mtr	43.30	736.10
9	19.70	Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON CSR No.1/2/11	Mtr	42.00	827.40
10	48	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW CSR No.1/3/3	Mtr	53.00	2544.00
11	48	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	26.50	1272.00
12	0	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/2	Each	153.00	0.00
13	0	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00	0.00
14	8	Dismantling of existing fluorescent fittings of any type & size CSR No.2/14/1	Each	13.00	104.00
15	8	Dismantling the existing ceiling fan /exhaust fan /cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear CSR No.2/14/4	Each	31.00	248.00

Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM PW

20	CSR No. 1 15 1	Point	7.00	140.00
				63482.50
1	(B) Credit for to Dismantled Material Fluorescent LED tube light fittings			
0	CSR No 19 1 19	Each	14.00	0.00
2	Ceiling cabin bracket pedestal table fan.			
0	CSR No 19 1 12	Each	161.00	0.00
3	PVC pipes materials			
4	CSR No 19 1 7	Kg	8.00	32.00
4	PVC armoured unarmoured cables and wires (Aluminium)			
2	CSR No 19 1 1	Kg	15.00	30.00
				62.00
				63420.50
				9069.13
				54351.37
				54351.00

Below 14.30%

Rs. 62.00
 (A)-(B) 63420.50
 9069.13
 54351.37
 I.e.Rs. 54351.00

Measurements are recorded in M.B no. 182 on Page No. 22 to 27.

[Signature]
 11/09/2020
 Junior Engineer (Elect.)
 Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	54351.00	
ii) GST 12% (exclusive)	(+) 6522.00	60873.00
iii) Deductions		
a) Security deposit 2.5% Contractor previously deposited S.D Rs. 1,400/- vide MR No. 0002015, dt.31/12/2019	1400.00	
b) Income Tax 2%	1087.00	
c) Labour Cess 1%	544.00	
d) State Goods & Service Tax 1%	544.00	
e) Central Goods & Service Tax 1%	544.00	
Total deductions	4119.00	
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 56754.00

(Rs. Fifty Six Thousand, Seven Hundred, Fifty Four Only.)

[Signature]
 19.9.20
 Superintendent
 Engineering Section
 Sant Gadge Baba Amravati University

1 & Recommended for
int/Adjustment of Rs. 60,873/-
[Signature]
 16/9/2020

I agree to above payment & deductions.

Krushna Electrical & Contractor

[Signature]
 10/9/2020
 Contractor
 Proprietor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
 University Deputy Engineer (Elect.)
 Sant Gadge Baba Amravati University

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
 5) Toilets
 (a) Renovation of Toilets at Various teaching & Administrative deptt. In Campus.

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

Second & Final Bill

Name of Work :- Renovation of Electrical installation of Computer Science building at Sant Gadge Baba Amravati University Campus, Amravati

(ii) Name of Agency :- Unifers Electricals & Consultancy, Amravati.

(iii) Work Order No. :- 61/2019, Dt. 11/09/2019

(iv) Date of Completion :- 30/08/2020

(v) Pan no. of Contractor :- DHCPK0892N

(vi) GST no. of Contractor :- 27DHCPK0892N1ZV

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying & erecting triple pole and neutral distribution board (IPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
2	8	CSR No.5/4/7	Each	2032.00	16256.00
3	13	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB	Each	1270.00	16510.00
4	1	CSR No.5/4/19	Each	4810.00	4810.00
5	145.40	Supplying and erecting triple pole metal clad switch and fuse 415V, 100A with neutral link on angle iron / GI frame as per specification no. SW-SWR/MTP.	Mtr	102.00	14830.80
6	866.80	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	Mtr	53.00	45940.40
7	85.15	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	73.00	6215.95
8	1097.35	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	26.50	29079.78
9	773.45	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Mtr	42.00	32484.90
10	127	Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	Each	153.00	19431.00
11	96	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Each	164.00	15744.00
12	15	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	275.00	4125.00
13	8	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete.	Each	621.00	4968.00
14	1	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete.	Each	179.00	179.00
	0	Supplying and erecting fan clamp of 30 x 5 mm, M.S. flat of required length and 10 mm, M.S. bolt and nuts erected with necessary hook of 10 mm, M.S. round bar and painted.	Mtr	204.00	0.00

15		Supplying & erecting ready to use Retrofit 18 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.			
16	332	✓ CSR No.2/10/14	Each	594.00	197208.00
17	332	✓ CSR No.2/1/1	Each	262.00	86984.00
18	549	✓ CSR No.1/9/25	Point	433.00	237717.00
19	704.65	✓ CSR No.1/9/25, Note 1	Mtr	43.30	30511.35
20	10	✓ CSR No.2/12/13	Each	1268.00	12680.00
21	10	✓ CSR No.2/13/14	Each	956.00	9560.00
22	0	CSR No.1/8/20	Each	225.00	0.00
23	32	✓ CSR No.5/4/24	Each	12.00	384.00
24	34	✓ CSR No.1/8/24	Each	18.00	612.00
25	48	✓ CSR No.1/8/32	Each	310.00	14880.00
26	14	✓ CSR No.1/8/30	Each	211.00	2954.00
27	49	✓ CSR No.1/8/11	Each	157.00	7693.00
28	49	✓ CSR No.1/8/2	Each	88.00	4312.00
29	254	✓ CSR No.1/8/1	Each	65.00	16510.00
30	252	✓ CSR No.1/8/10	Each	106.00	26712.00
31	2	✓ CSR No.2/4/14	Each	123.00	246.00
	2	✓ CSR No.1/8/3	Each	95.00	190.00

32		Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. FA-EP			
33	2 ✓	CSR No.9/1/1 Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G.I. Clamps fixed on wall/cable/conduit with screws in an approved manner	Each	3931.00 ✓	7862.00 ✓
34	0	CSR No.9/2/5 Supplying, erecting & marking 1PMCB 6 A to 32A in provided distribution board as per specification no. SW-SWR/MCB	Kg	136.00	0.00
35	0	CSR No.5/3/14 Supplying and erecting LED square / circular 16 to 20W down lighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete.	Each	653.00	0.00
36	43 ✓	CSR No.2/1/5 Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No.FG-ODE/FLS-2	Each	1212.00 ✓	52116.00 ✓
37	2 ✓	CSR No.2/5/15 Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 6 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCDB	Each	9504.00 ✓	19008.00 ✓
38	2 ✓	CSR No.5/4/18 Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A, 2 pin plug & earth socket and 20A, 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ GI frame.	Each	1056.00 ✓	2112.00 ✓
39	3 ✓	CSR No.5/4/20 Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	700.00 ✓	2100.00 ✓
40	0	CSR No.2/10/11 Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.	Each	218.00	0.00
41	4.316 ✓	CSR No.6/1/19 Dismantling of existing fluorescent fittings of any type & size.	Kg	131.00	565.40 ✓
42	180 ✓	CSR No.2/14/1 Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	Each	13.00	2340.00 ✓
43	176 ✓	CSR No.2/14/4 Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Each	31.00	5456.00 ✓
44	381 ✓	CSR No.1/15/1 Erection of departmentally supplied ceiling fan with necessary materials complete	Point	7.00	2667.00 ✓
	176 ✓	CSR No.2/13/7	Each	90.00	15840.00 ✓
	(B)	Credit for dismantled material			9,69,794.57 ✓
1	0	All types of Fluorescent/LED tube light fittings CSR No.19/1/19	Each	14.00	0.00
2	0	All types of Fan CSR No.19/1/12	Each	161.00	0.00
3		PVC armoured/unarmoured cables and wires (Aluminium)			
4	50 ✓	CSR No.19/1/1 PVC armoured/unarmoured cables and wires (Copper)	Kg	15.00	750.00 ✓

1,10,000

5	✓ CSR No 19/1/2	Kg	63.00	315.00
5	PVC pipes/materials			
45	✓ CSR No 19/1/7	Kg	8.00	360.00
6	LC / MC switches / DP / DR / TP / feeder pillar etc			
15	✓ CSR No 19/1/9	Kg	18.00	270.00
				1695.00
				9680.9457
Total (A) (B)				79,384.16
Below 8.20% (-)				8,88,715.40
(Less) 1st R.A. Amount				Rs. 230510.00
				Rs. 658205.40
				i.e Rs. 658205.00

Measurements are recorded in M.B no. 182 on Page No. 31 to 44.

[Signature]
 Junior Engineer (Elect.)
 Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	658205.00	
ii) GST 12% (exclusive)	(+) 78985.00	737190.00
iii) Deductions		
a) Security deposit 2.5%	Nil	
Contractor initially previously deposited S D Rs. 27800/- vide MR No 27500, dt 31/08/2019 & Rs. 27800/- deducted from first R.A. Bill	13164.00	
b) Income Tax 2%	6582.00	
c) Labour Cess 1%	6582.00	
d) State Goods & Service Tax 1%	6582.00	
e) Central Goods & Service Tax 1%	6582.00	
Total deductions	32910.00	
iv) Net payment to Contractor (i) & (ii) - (iii)	32912.00	Rs. 704278.00

(Rs. Seven Lacs, Four Thousand, Two Hundred, Eighty Only)

Seventy Eight Only

[Signature]
 Supriendent
 Engineering Section
 Sant Gadge Baba Amravati University

I agree to above payment & deductions.

Uniers Electricals & Consultancy
 Contractor
[Signature]
 25/11/2021
 Proprieto.

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
 University Deputy Engineer (Elect.)
 Sant Gadge Baba Amravati University

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
 Academic Buildings
 (iii) Computer Science Building.

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

Audited & Recommended for Payment/Adjustment of Rs. 7,37,192/-

[Signature]
 Clerk
[Signature]
 Suptd.

ITC No. 58/11

First and Final Bill

Name of Work :- Renovation to the Electrical installaton of Education Building, Sant Gadge Baba Amravati Univeristy Campus, Amravati.

(ii) Name of Agency :- Unvers Electricals & Consultancy, Amravati.

(iii) Work Order No. :- 59/2019, Dt. 11/09/2019

(iv) Date of Completion :- 01/11/2019

(v) Pan no. of Contractor :- DHCPK0892N

(vi) GST no. of Contractor :- 27DHCPK0892N1ZV

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Providing & erecting floor / wall mounting, MCCB panel board with door suitable for three pole incoming 250A, 8 ways three pole outgoing up to 100A MCCB on iron frame in compliance of IEC 61439, as per specification no SW-SWR/MCCBPB. (Excluding MCCB'S) CSR No.5/7/19	Each	41652.00	41652.00
2	1	Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 8 way outgoing or 400A incoming and 6 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete. CSR No.5/7/14	Each	15884.00	15884.00
3	1	Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs. CSR No.6/3/5	Each	7733.00	7733.00
4	1	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 250A MCCB complete. CSR No.5/11/14	Each	1113.00	1113.00
5	1	Supplying and erecting panel mounting type digital voltmeter having three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/8	Each	1223.00	1223.00
6	1	Supplying and erecting panel mounting type digital ammeter having three and half digit LED display, external CT operated, calibrated for suitable to operate on 500V, 0 to 1000A AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/7	Each	1276.00	1276.00
7	1	Supplying and erecting selector switch suitable for voltmeter/ammeter for 3 phase AC supply 500V, 50Hz, on provided box / panel and duly connecting with necessary PVC wire leads and lugs. CSR No.6/5/1	Each	302.00	604.00
8	2	Supplying & erecting LED type indicating pilot lamp with LED colours red / yellow / green, 230 / 250V on provided box / panel with necessary material, wiring & connections etc. CSR No.6/5/6	Each	172.00	516.00
9	3	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority CSR No.6/1/19	Kg	131.00	2221.24
	16.956				

72,222.24

10	0.178 ✓	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. CSR No.6/1/2	Sqm	2117.00 ✓	376.83 ✓
11	1 ✓	Providing & erecting 3 Pole MCCB of 250A,415V capacity with short circuit rating 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/3	Each	12264.00 ✓	12264.00 ✓
12	8 ✓	Providing & erecting 3 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/1	Each	4507.00 ✓	36056.00 ✓
13	8 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB complete. (set of 6). CSR No.5/11/1	Set	169.00 ✓	1352.00 ✓
14	1 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 250A MCCB complete. (set of 6) CSR No.5/11/2	Each	799.00 ✓	799.00 ✓
15	1 ✓	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq. mm. /3 to 4 core 25 sq. mm. /3 core 35 sq. mm. for XLPE armoured cable as per specification no. CB-GL CSR No.7/7/3	Each	60.00 ✓	60.00 ✓
16	4 ✓	Supplying & erecting crimping type aluminium lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/AL CSR No.7/10/1	Each	7.00 ✓	28.00 ✓
17	0	Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU CSR No.7/9/1	Each	16.00 ✓	0.00 ✓
18	20 ✓	Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/35	Mtr	1175.00 ✓	23500.00 ✓
19	93 ✓	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/33	Mtr	512.00 ✓	47616.00 ✓
20	143.70 ✓	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/7	Mtr	102.00 ✓	14657.40 ✓
21	64.55 ✓	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/5	Mtr	73.00 ✓	4712.15 ✓
22	846.65 ✓	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3	Mtr	53.00 ✓	44872.45 ✓

293-83 ✓

23	800 FR 1054.90 RR 104.20	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	FR 26.50 ✓ RR 17.50 ✓	29778.35 ✓
24	352 698.85	Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No.1/2/11	Mtr	42.00 ✓	29351.70 ✓
25		Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00 ✓	6096.00 ✓
26	3 ✓	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/19	Each	1270.00 ✓	12700.00 ✓
27	10 ✓	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A. 2 pin plug & earth socket and 20A. 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ GI frame. CSR No.5/4/20	Each	700.00 ✓	1400.00 ✓
28	2 ✓	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00 ✓	10988.00 ✓
29	67 ✓	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/2	Each	153.00 ✓	7038.00 ✓
30	46 ✓	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete. CSR No.5/3/26	Each	776.00 ✓	2328.00 ✓
31	3 ✓	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete. CSR No.5/3/20	Each	275.00 ✓	3300.00 ✓
32	12 ✓	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size CSR No.2/4/13	Each	123.00 ✓	615.00 ✓
33	5 ✓	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete. CSR No.1/8/3	Each	95.00 ✓	475.00 ✓
34	5 ✓	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF/FLS2. CSR No.2/5/3	Each	2605.00 ✓	7815.00 ✓
35	3 ✓	Supplying and erecting LED Flood light fitting of 70-80W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2 CSR No.2/5/14	Each	7039.00 ✓	7039.00 ✓
36	1 ✓	Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected. CSR No.1/8/32	Each	310.00 ✓	14880.00 ✓
37	48 ✓	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected. CSR No.1/8/30	Each	211.00 ✓	4009.00 ✓
	19 ✓		Each		

38	Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete	Each	88.00	5896.00
65	67 ✓ CSR No.1/8/2			
39	Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	157.00	10519.00
65	67 ✓ CSR No.1/8/11			
40	Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete	Each	65.00	12935.00
105	199 ✓ CSR No.1/8/1			
41	Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	106.00	21094.00
106	199 ✓ CSR No.1/8/10			
42	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	Each	594.00	87912.00
130	148 ✓ CSR No.2/10/14			
43	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).	Each	262.00	38776.00
130	148 ✓ CSR No.2/1/1			
44	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire	Mtr	204.00	10077.60
	49.40 ✓ CSR No.2/13/6			
45	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	1268.00	12680.00
	10 ✓ CSR No.2/12/13			
46	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	Each	956.00	9560.00
	10 ✓ CSR No.2/13/14			
47	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	225.00	2250.00
	10 ✓ CSR No.1/8/20			
48	Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	218.00	872.00
	4 ✓ CSR No.2/10/11			
49	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	433.00	112580.00
30	260 ✓ CSR No.1/9/25			
50	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Mtr	43.30	15304.39
	353.45 ✓ CSR No.1/9/25, Note 1			
51	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	3931.00	7862.00
	2 ✓ CSR No.9/1/1			
52	Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Kg	136.00	0.00
	0 CSR No.9/2/5			
53	Dismantling of existing fluorescent fittings of any type & size.	Each	13.00	1807.00
	139 ✓ CSR No.2/14/1			

54		Dismantling the existing W.T. fluorescent fitting/ S.V./ M.V. / M.H. lamp /LED fitting from pole with brackets complete.			
55	4 ✓	CSR No.2/14/3 Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.	Each	92.00 ✓	368.00 ✓
56	90 ✓	CSR No.2/14/4 Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Each	31.00 ✓	2790.00 ✓
57	240 ✓	CSR No.1/15/1 Supplying and erecting self-locking arrangement with keys in duplicate, made of brass duly erected, flush with surface of panel / cupboard.	Point	7.00 ✓	1680.00 ✓
58	2 ✓	CSR No.6/1/20 Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	Each	240.00 ✓	480.00 ✓
59	3 ✓	CSR No.2/9/4 Supplying and erecting LT current transformer with bar primary 50/5 to 1000/5 ratio with 15 VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates.	Each	667.00 ✓	2001.00 ✓
60	3 ✓	CSR No.6/5/2 0 Erection of departmentally supplied ceiling fan with necessary materials complete.	Each	834.00 ✓	2502.00 ✓
	80 ✓	CSR No.2/13/7	Each	90.00 ✓	7200.00 ✓
				Total (A)	763475.10 ✓
	(B)	Credit for dismantled material			
(i)		PVC armoured/unarmoured cables and wires (Aluminium)			
	40 ✓	CSR No.19/1/1	Mtr	15.00 ✓	600.00 ✓
(ii)		Fluorescent/LED tube light fittings			
	0.00	CSR No.19/1/19	Each	14.00	0.00
(iii)		Ceiling/cabin/bracket/pedestal/table fan.			
	0.00	CSR No.19/1/12	Each	161.00	0.00
(iv)		I.C. / M.C. switches / D.P. / D.B./ T.P. / feeder pillar etc.			
	15.00 ✓	CSR No.19/1/9	Kg	18.00 ✓	270.00 ✓
(v)		PVC armoured/unarmoured cables and wires (Copper)			
	1.00 ✓	CSR No.19/1/2	Kg	63.00 ✓	63.00
(vi)		PVC pipes/materials			
	15.00 ✓	CSR No.19/1/7	Kg	8.00 ✓	120.00 ✓
				(-)	1053.00 ✓
				(A) - (B)	762422.10 ✓
		Contractor quoted -9.20% Below			70142.83 ✓
					692279.26 ✓
				i.e.Rs.	692279.00 ✓

Measurements are recorded in M.B no. 180 on Page No. 09 to 24.

[Signature]
Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	692279.00 ✓	
ii) GST 12% (exclusive)	(+) 83073.48 ✓	
	775352.48 ✓	775352.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
a) Contractor previously deposited S.D Rs. 16400/- vide MR No. 275899, dt. 31/08/2019	16400.00 ✓	
b) Income Tax 2%	13846.00 ✓	
c) Labour Cess 1%	6923.00 ✓	
d) State Goods & Service Tax 1%	6923.00 ✓	
e) Central Goods & Service Tax 1%	6923.00 ✓	
Total deductions	51015.00 ✓	51015.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 724337.00 ✓

(Rs. Seven Lacs, Twenty Four Thousand, Three Hundred, Thirty Seven Only.)

[Signature]
Supriendent

Engineering Section

Sant Gadge Baba Amravati University

I agree to above payment & deductions.

Univers Electricals & Consultancy

[Signature]
14/1/2020
Proprietor
Contractor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
26/02/20
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
1. Academic Buildings
d) (ii) Education Department Buildings.
Rs. 775352

[Signature]
27/2/2020
Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended for
Payment/Adjustment of Rs. 775352/-

[Signature]
12/3/20
Supdt.

200

4

4

130

150

35

42

14	276.80 ✓	Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No. 1/2/11	Mtr	42.00 ✓	11625.60 ✓
15	68 ✓	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No. 2/10/14	Each	594.00 ✓	40392.00 ✓
16	68 ✓	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No. 2/1/1	Each	262.00 ✓	17816.00 ✓
17	0	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire. CSR No. 2/13/6	Mtr	204.00 ✓	0.00
18	4 ✓	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner. CSR No. 2/12/13	Each	1268.00 ✓	5072.00 ✓
19	8 ✓	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC CSR No. 2/13/14	Each	956.00 ✓	7648.00 ✓
20	8 ✓	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete CSR No. 1/8/20	Each	225.00 ✓	1800.00 ✓
21	2 ✓	Supplying and erecting LED Flood light fitting of 70-80W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2 CSR No. 2/5/14	Each	7039.00 ✓	14078.00 ✓
22	134 ✓	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No. 1/9/25	Point	433.00 ✓	58022.00 ✓
23	280.05 ✓	Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No. 1/9/25, Note 1	Mtr	43.30 ✓	12126.17 ✓
24	2.20 ✓	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority CSR No.6/1/19	Kg	131.00 ✓	288.20 ✓
25	43 ✓	Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected. CSR No.1/8/32	Each	310.00 ✓	13330.00 ✓
26	5 ✓	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected CSR No.1/8/30	Each	211.00 ✓	1055.00 ✓
27	48 ✓	Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete CSR No.1/8/11	Each	157.00 ✓	7536.00 ✓

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AMRAVATI UNIVERSITY

MEASUREMENT BOOK

(Form No. 28)

ST/Eng/167/or /85/03/04/100R 45

Form No. 2/Eng

	28	Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.			
105	145 ✓	CSR No.1/8/10	Each	106.00 ✓	15370.00 ✓
	29	Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.			
47	48 ✓	CSR No.1/8/2	Each	88.00 ✓	4224.00 ✓
	30	Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.			
105.	145 ✓	CSR No.1/8/1	Each	65.00 ✓	9425.00 ✓
	31	Supplying and erecting blanking plate of suitable size on MCB DB complete.			
	0	CSR No.5/4/24	Each	12.00	0.00
	32	Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box			
	4 ✓	CSR No.1/8/24	Each	18.00 ✓	72.00 ✓
	33	Supplying and erecting bulkhead fitting suitable for upto LED upto 12W fixed on wall. As per specification no. FG-IDF/BHF			
	0	CSR No.2/2/5	Each	221.00	0.00
	34	Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU			
	0	CSR No.7/9/1	Each	16.00	0.00
	35	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP			
	1 ✓	CSR No.9/1/1	Each	3931.00 ✓	3931.00 ✓
	36	Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.			
	0	CSR No.9/2/5	Kg	136.00	0.00
	37	Dismantling of existing fluorescent fittings of any type & size			
40	45 ✓	CSR No.2/14/1	Each	13.00 ✓	585.00 ✓
	38	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.			
112	47 ✓	CSR No.2/14/4	Each	31.00 ✓	1457.00 ✓
	39	Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete.			
	2 ✓	CSR No.5/12/1	Each	79.00 ✓	158.00 ✓
	40	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW			
85	95 ✓	CSR No.1/15/1	Each	7.00 ✓	665.00 ✓
	41	Erection of departmentally supplied ceiling fan with necessary materials complete.			
	45 ✓	CSR No.2/13/7	Each	90.00 ✓	4050.00 ✓
					310410.95 ✓
	(B)	Credit for dismantled material			
	1	All types of Fluorescent/LED tube light fittings			
	0	CSR No.19/1/19	Each	14.00	0.00
	2	All types of Ceiling/cabin/bracket/pedestal/table fan			
	0	CSR No.19/1/12	Each	161.00	0.00
	3	Switchgears			
	2 ✓	CSR No.19/1/9	Kg	18.00	36.00 ✓
					36.00 ✓
					310374.95 ✓
					2793.37 ✓
					307581.58 ✓
					307582.00 ✓
		Total (A) - (B)			
		Contractor quoted 0.90% Below			
				Say Rs.	307582.00 ✓

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Measurements are recorded in M.B no. 180 on Page No. 31 to 41.

[Signature]
 Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	307582.00 ✓	
ii) GST 12% (exclusive)	(+) 36910.00 ✓	
	344492.00	344492.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
Contractor previously deposited S.D Rs. 8,600/- vide MR No. 276471, dt.20/08/2019	6800.00 ✓	
b) Income Tax 2%	6152.00 ✓	
c) Labour Cess 1%	3076.00 ✓	
d) State Goods & Service Tax 1%	3076.00 ✓	
e) Central Goods & Service Tax 1%	3076.00 ✓	
	Total deductions	22180.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 322312.00 ✓

(Rs. Three Lacs, Twenty Two Thousand, Three Hundred, Twelve Only.)

[Signature]
 05/11/2020

Supriendent

Engineering Section

Sant Gadge Baba Amravati University

I agree to above payment & deductions.

JADHAV ELECTRICALS

Contractor

Proprietor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
 05/11/20

University Deputy Engineer (Elect.)
 Sant Gadge Baba Amravati University

[Signature]

Executive Engineer
 Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
 (1) Old barrack No. 3 (Math & Statistics deptt)

Audited & Recommended for
 Payment/Adjustment of Rs. 344492/-

[Signature]
 05/11/20
 Clerk Supdt.

[Signature]

Executive Engineer
 Sant Gadge Baba Amravati University

Second and Final Bill

Name of Work :- Replacement and renovation of MV/ MH light into LED street lights at Sant Gadge Baba Amrvati University Campus, Amravati.

(ii) Name of Agency. :- M/s. Shree Services, Amravati.

(iii) Work Order No. :- 34/2019, Dt. 07/08/2019

(iv) Date of Completion :- 01/11/2019

(v) Pan no. of Contractor :- ABEPP2997E

(vi) GST no. of Contractor :- 27ABEPP2997E1ZC

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying and erecting LED street light fitting suitable for above 75W - 90W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FGODF/FLS2.			
	53	CSR No.2/5/7	Each	7115.00	377095.00
2		Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FGODF/FLS2.			
	165	CSR No.2/5/4	Each	3457.00	570405.00
3		Supplying and erecting Street light bracket for erection of Double fitting on tubular welded pole with 40 mm. dia 1.0 m long "B" grade G.I. pipe along with pole cap of 125mm dia 600 mm long duly welded as per specification no. FG-BKT/BPC			
	4	CSR No.2/9/8	Each	1718.00	6872.00
4		Supplying and erecting Street light bracket for erection of side entry fitting on pole with 40 mm. dia. 'B' grade G.I. pipe of required length complete as per specification no. FG-BKT/SLB			
	10	CSR No.2/9/9	Mtr	451.00	4510.00
5		Supplying and erecting Street light bracket for erection of Single fitting made from 40 mm. dia 'B' class G.I. pipe 1.0 m in length along with pole cap of 300 mm length 100 mm dia duly welded as per specification no. FG-BKT/BPC			
	0	CSR No.2/9/5	Each	835.00	0.00
6		Supplying & erecting FRP box of size 300 x 200 x 125 mm, 2.7 mm thick complete on pole/wall as per specification no. CB-SB			
	173	CSR No.7/8/8	Each	572.00	98956.00
7		Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			
	2149	CSR No.1/3/1	Mtr	35.00	75215.00
8		Supplying & erecting mains with 1x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			
	2149	CSR No.1/3/1, Note 1	Mtr	17.50	37607.50
9		Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB			
	221	CSR No.5/3/3	Each	164.00	36244.00
10		Supplying & erecting Siemens type brass cable glands for 3 to 4 core 6 sq. mm. /2 to 4 core 10 sq. mm. for XLPE armoured cable as per specification No. CB-GL			
	289	CSR No.7/7/2	Each	52.00	15028.00
11		Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq. mm. /3 to 4 core 25 sq. mm. /3 core 35 sq. mm. for XLPE armoured cable as per specification no. CB-GL			
	14	CSR No.7/7/3	Each	60.00	840.00
12		Making cement concrete foundation in 1:3:6 cement concrete, (20 to 25) mm. stone metal duly plastered with necessary curing for complete. (pole muffing or any other purpose).			
	2.097	CSR No.16/3/7	Cu.M	3058.00	6412.63

13		Making trench of suitable width and depth in soft soil for laying provided LT cable up to and including 16 sq.mm complete as per specification no. CW-EXN-CTR			
	101	CSR No.16/1/1	Mtr	138.00	13938.00
14		Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete.			
	48.90	CSR No.1/2/1	Mtr	74.00	3618.60
15		Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority			
	87.152	CSR No.6/1/19	Kg	131.00	11416.91
16		Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.			
	8.512	CSR No.6/1/2	Sq.M	2117.00	18019.90
17		Supplying and erecting four pole power contactor 430 V, 40 A for time switch complete erected on provided wooden block/ box, with necessary materials.			
	4	CSR No.4/4/5	Each	2588.00	10352.00
18		Supplying and erecting quartz electronic time switch having 24 hour dial to work on 250 V 50 cycle AC having built in rechargeable nickel cadmium batteries to run the time switch on failure of supply having switch contact rating upto 16A to use independently or in conjunction with contactor.			
	4	CSR No.4/4/1	Each	2366.00	9464.00
19		Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 40A in provided distribution board complete.			
	4	CSR No.5/3/24	Each	591.00	2364.00
20		Supplying, erecting & marking TPMCB 6 A to 32A in provided distribution board as per specification no. SW-SWR/MCB			
	16	CSR No.5/3/14	Each	653.00	10448.00
21		Supplying, erecting & terminating XLPE armoured cable 4 core 6 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL			
	200	CSR No.7/1/27	Mtr	128.00	25600.00
22		Supplying, erecting & terminating XLPE armoured cable 4 core 4 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL			
	55	CSR No.7/1/26	Mtr	114.00	6270.00
23		Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
	4	CSR No.2/5/18	Each	21469.00	85876.00
24		Supplying & erecting crimping type aluminium lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/AL			
	1126	CSR No.7/10/1	Each	7.00	7882.00
25		Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete.			
	FR 209.00	CSR No.7/6/9	Mtr	FR 179.00	41600.00

RR 59.00	CSR No.7/6/9	Mtr	RR 71.00	
26	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of 12 ways, on iron/ GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB			
4	CSR No.5/4/10	Each	4292.00	17168.00
27	Supplying, erecting & marking FPMCB 6A to 32A in provided distribution board as per specification no. SW-SWR/MCB			
4	CSR No.5/3/16	Each	905.00	3620.00
28	Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete			
4	CSR No.5/4/23	Each	339.00	1356.00
29	Dismantling the existing W.T. fluorescent fitting/ S.V./ M.V. / M.H. lamp /LED fitting from pole with brackets complete.			
218	CSR No.2/14/3	Each	92.00	20056.00
30	Supplying, erecting & terminating XLPE armoured cable 3½ core 50 sq. mm. aluminium conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL			
50	CSR No.7/1/17	Mtr	323.00	16150.00
31	Supplying and erecting ISI mark GI pipe 40 mm. dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP.			
0	CSR No.16/5/5	Mtr	476.00	0.00
32	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP			
1	CSR No.9/1/1	Each	3931.00	3931.00
33	Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.			
0	CSR No.9/2/5	Kg	136.00	0.00
34	Supplying & erecting GI flexible Conduit 25 mm dia. conforming to I.S. with required number of couplings, bushes, check nuts etc. complete			
0	CSR No.1/2/28	Mtr	40.00	0.00
35	Supplying and erecting HMS PVC conduit 25 mm dia. with PVC accessories on wall /ceiling as per specification No: WG-MA/CON.			
0	CSR No.1/2/7	Mtr	76.00	0.00
36	Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete.			
4	CSR No.5/12/1	Each	79.00	316.00
				1538631.54
(B)	Credit for Dismantled Material			
	All types of M.V. M.H. Fitting/ Street/flood light fittings.			
0	CSR No.19/1/20	Each	56	0.00
	D.B.Switchgears. IC kg. M.C. Switches			
15	CSR No.19/1/20	Kg	18	270.00
				270.00
		(A-B)		1,538,361.54
	Below 18.37%			282,597.02
				1,255,764.53
	Less 1st R.A. Bill Amount		(-)	901684.00
			Rs.	354080.53
		Say Rs.		354081.00

Measurements are recorded in M.B no. 185 on Page No. 22 to 45.

[Signature]
05/03/20

Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)		354081.00	
ii) GST 12% (exclusive)		(+) 42489.72	
		<u>396570.72</u>	396571.00
iii) Deductions			
a) Security deposit			NIL
1) Contractor initially previously deposited S.D Rs. 39,500/- vide MR No. 261131, dt.20/07/2019			
2) Rs. 39,500/- deducted from 1st R.A. Bill			
b) Income Tax 2%	7082.00		
c) Labour Cess 1%	3541.00		
d) State Goods & Service Tax 1%	3541.00		
e) Central Goods & Service Tax 1%	3541.00		
Total deductions	17705.00		17705.00
iv) Net payment to Contractor (i) & (ii) - (iii)			Rs. 378866.00

(Rs. Three Lacs Seventy Eight Thousand Eight Hundred Sixty Six Only.)

[Signature]
05/03/20

Suprintendent

Engineering Section

Sant Gadge Baba Amravati University

I agree to above payment & deductions.

SHREE SERVICES

[Signature]
Proprietor

Contractor 28/2/2020

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmatically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
05.03.20

University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]

Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
Renovation to Campus Development
Renovation to the Electrical Installation of Streetlight
with replacement of old fitting with LED Fitting.

II R.A. Rs. 396571.00
I R.A. B. 1009886.00
Total - B. 1406457.00

[Signature]

Executive Engineer
Sant Gadge Baba Amravati University

First and Final Bill

Name of Work :- Renovation to the Electrical installation at LL.M. Department at Sant Gadge Baba Amravati University Campus, Amravati.

(ii) Name of Agency :- M/s. Jadhao Electrical's, Amravati.

(iii) Work Order No. :- 69/2019, Dt. 20/09/2019

(iv) Date of Completion :- 15/03/2020

(v) Pan no. of Contractor :- AAPPJ3013R

(vi) GST no. of Contractor :- 27AAPPJ3013R1Z9

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying and erecting triple pole metal clad IIC type rewirable fuse and switch 115V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MIP.			
	1	CSR No.5/1/12	Each	2550.00	2550.00
2		Supplying & erecting triple pole and neutral distribution board (1PNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
	1	CSR No.5/4/7	Each	2032.00	2032.00
3		Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB			
	4	CSR No.5/4/19	Each	1270.00	5080.00
4		Supplying & erecting mains with 4x10 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			
	4.50	CSR No. 2 x 1/3/9	Mtr	340.00	1530.00
5		Supplying & erecting mains with 1x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			
	0	CSR No. 1/3/7, Note 3	Mtr	51.00	0.00
6		Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete.			
	4	CSR No.5/3/20	Each	275.00	1100.00
7		Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete.			
	1	CSR No.5/3/26	Each	776.00	776.00
8		Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB			
	40	CSR No.5/3/3	Each	164.00	6560.00
9		Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB			
	18	CSR No.5/3/2	Each	153.00	2754.00
10		Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW			
	166.80	CSR No.1/3/3	Mtr	53.00	8840.40
11		Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW			
	226.45	CSR No. 1/3/3, Note 3	Mtr	26.50	6000.93
12		Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON,			
	126.15	CSR No.1/2/11	Mtr	42.00	5298.30
13		Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.			
	82	CSR No.2/10/14	Each	594.00	48708.00
14		Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).			
	82	CSR No.2/1/1	Each	262.00	21484.00

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15		Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire.			
16	26.40 ✓	CSR No.2/13/6 Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.	Mtr	204.00 ✓	5385.60 ✓
17	0	CSR No.2/13/3 Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+IE) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Each	179.00	0.00
18	114 ✓	CSR No.1/9/25 Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+IE) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	433.00 ✓	49362.00 ✓
19	281.62 ✓	CSR No.1/9/25, Note 1 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.	Mtr	43.30 ✓	12194.15 ✓
20	24 ✓	CSR No.1/8/32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected	Each	310.00 ✓	7440.00 ✓
21	3 ✓	CSR No.1/8/30 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	211.00 ✓	633.00 ✓
22	27 ✓	CSR No.1/8/11 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	157.00 ✓	4239.00 ✓
23	85 ✓	CSR No.1/8/10 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	106.00 ✓	9010.00 ✓
24	27 ✓	CSR No.1/8/2 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete	Each	88.00 ✓	2376.00 ✓
25	85 ✓	CSR No.1/8/1 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	65.00 ✓	5525.00 ✓
26	1 ✓	CSR No.9/1/1 Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required. As per specification no EA-EP.	Each	3931.00 ✓	3931.00 ✓
27	0	CSR No.9/2/3 Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW	Kg	191.00	0.00
28	59.65 ✓	CSR No.1/3/5 Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A, 2 pin plug & earth socket and 20A, 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ GI frame.	Mtr	73.00 ✓	4354.45 ✓
29	4 ✓	CSR No.5/4/20 Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C, 50 cycles 300mm, 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	700.00 ✓	2800.00 ✓
30	5 ✓	CSR No.2/12/13 Supplying & erecting 22 SWG G.I sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MS	Each	1268.00 ✓	6340.00 ✓
	0	CSR No.2/13/14	Each	956.00	0.00

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31	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 - 450W. duly erected on provided plate and box with wiring connections complete			
5	✓ CSR No 1 8 20	Each	225.00	1125.00
32	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp. including lamp. with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No. FGODF H 52			
6	✓ CSR No 2 5 3	Each	2605.00	15630.00
33	Supplying and erecting street light Wall bracket made from 40 mm dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT WB			
6	✓ CSR No 2 9 4	Each	667.00	4002.00
34	Supplying and erecting iron. sheet metal work consisting of CRCA sheets. various sections of iron. plates. chequered plates. rods. bars. MS pipes. etc. for panel board or any other purpose with bending. cutting. drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.			
0	✓ CSR No.6/1/19	Kg	131.00	0.00
35	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface flush mounted SPMCB of 12 ways. on iron GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
1	✓ CSR No.5/4/7	Each	2032.00	2032.00
36	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete.			
1	✓ CSR No.5/3/25	Each	621.00	621.00
37	Supplying and erecting blanking plate of suitable size on MCB DB complete			
0	✓ CSR No.5/4/24	Each	12.00	0.00
38	Supplying and erecting ISI mark modular type blanking plate one module. duly erected on provided plate & box.			
10	✓ CSR No.1/8/24	Each	18.00	180.00
39	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size			
2	✓ CSR No.2/4/13	Each	123.00	246.00
40	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete			
2	✓ CSR No.1/8/3	Each	95.00	190.00
41	Dismantling of existing fluorescent fittings of any type & size.			
49	✓ CSR No.2/14/1	Each	13.00	637.00
42	Dismantling the existing ceiling fan /exhaust fan /cabin fan / bracket fan complete with accessories. G.I. down rod. frame etc. and making the site clear.			
29	✓ CSR No.2/14/4	Each	31.00	899.00
43	Dismantling the existing W.T. fluorescent fitting / S.V. / M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete			
2	✓ CSR No.2/14/2	Each	39.00	78.00
44	Dismantling the existing light. fan. bell. clock. independent plug point. wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW			
82	✓ CSR No.1/15/1	Point	7.00	574.00
45	Erection of departmentally supplied ceiling fan with necessary materials complete			
24	✓ CSR No.2/13/7	Each	90.00	2160.00
(B)	Credit for dismantled material			254677.82
1	All types of Fluorescent LED tube light fittings			
0	✓ CSR No.19/1/19	Each	14.00	0.00
2	All types of Fan			
0	✓ CSR No.19/1/12	Each	161.00	0.00

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3	Street flood light fittings			
0	CSR No.19/1/20	Each	56.00	0.00
4	PVC armoured/unarmoured cables and wires (Aluminium)			
10	CSR No.19/1/1	Kg	15.00	150.00
5	PVC armoured/unarmoured cables and wires (Copper)			
0	CSR No.19/1/2	Kg	62.00	0.00
Total (A) - (B)				150.00
Above 3%				254527.82
				7,635.83
				2,62,163.65
Say Rs.			262164.00	

Measurements are recorded in M.B no. 127 on Page No. 149 to 159.

[Signature]
 Junior Engineer (Elect.)
 Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	262164.00	✓
ii) GST 12% (exclusive)	(+) 31460.00	✓
	293624.00	293624.00
iii) Deductions		
a) Security deposit 2.5%		
Contractor initially previously deposited S.D Rs. 8100/- vide MR No. 28629, dt.12/09/2019	8100.00	✓
b) Income Tax 2%	5243.00	✓
c) Labour Cess 1%	2622.00	✓
d) State Goods & Service Tax 1%	2622.00	✓
e) Central Goods & Service Tax 1%	2622.00	✓
Total deductions	21209.00	✓
iv) Net payment to Contractor (i) & (ii) - (iii)	Rs. 272415.00	✓

(Rs. Two Lacs, Seventy Two Thousand, Four Hundred, Fifteen only.)

[Signature]
 21.11.2020
 Supriendent
 Engineering Section
 Sant Gadge Baba Amravati University

I agree to above payment & deductions.

M/S. JADHAV ELECTRICALS
 No. M. C. 4278
 Khera Nagar, AMRAVATI
 Contractor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
 21.11.20
 University Deputy Engineer (Elect.)
 Sant Gadge Baba Amravati University

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

ALLOCATION

[Signature]
 Executive Engineer
 Sant Gadge Baba Amravati University

Audited & Recommended for Payment/Adjustment of Rs. 2,62,163.65/-
[Signature]
 19/12/20

First and Final Bill ✓

Name of Work :- Renovation to Electrical Installation of Swimming pool at, Sant Gadge Baba Amravati Univesity Campus, Amravati.

(ii) Name of Agency. :- M/s. Sai Electricals Sales & Services, Amravati. ✓

(iii) Work Order No. :- 57/2019, Dt. 04/09/2019 ✓

(iv) Date of Completion :- 16/03/2020 ✓

(v) Pan no. of Contractor :- AGBPD4014A

(vi) GST no. of Contractor :- 27AGBPD4014A1ZD

Sno.	Qty	Item	Unit	Rate	Amount
1	1 ✓	Providing & erecting 3 Pole MCCB of 315/400A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/4	Each	16256.00 ✓	16256.00 ✓
2	6 ✓	Providing & erecting 3 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/1	Each	4507.00 ✓	27042.00 ✓
3	2 ✓	Providing & erecting 4 Pole MCCB of 315/400A, 415V capacity with short circuit rating 36 kA (Ics=100% of Icu), adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/4, Note 1	Each	5408.40 ✓	10816.80 ✓
4	1 ✓	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of 24 ways on iron/ GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/11	Each	5682.00 ✓	5682.00 ✓
5	1 ✓	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SP / TP MCBs of 12 ways, on iron/ GI frame (vertical busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/10	Each	4292.00 ✓	4292.00 ✓
6	2 ✓	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00 ✓	4064.00 ✓
7	0	Supplying and erecting SS enclosure for MCCB suitable for upto 100A MCCB complete. CSR No.5/11/17	Each	836.00 ✓	0.00 ✓
8	0	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 250A MCCB complete CSR No.5/11/14	Each	1113.00 ✓	0.00 ✓
9	1 ✓	Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for above 250A upto 630A MCCB complete CSR No.5/11/15	Each	1586.00 ✓	1586.00 ✓
10	6 ✓	Supplying and erecting blanking plate of suitable size on MCB DB complete CSR No.5/4/24	Each	12.00 ✓	72.00 ✓
11	2 ✓	Supplying and erecting fully Automatic star/delta starter suitable for above 15 H.P. upto 25 H.P. squirrel cage motor totally enclosed with overload and no volt relay complete erected on provided angle iron frame. CSR No.12/4/5	Each	12452.00 ✓	24904.00 ✓

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12		Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs			
	1 ✓	CSR No.6/3/5	Each	7733.00	7733.00
13		Supplying and erecting LT current transformer with bar primary 50/5 to 1000/5 ratio with 15 VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates			
	3 ✓	CSR No.6/5/2	Each	834.00	2502.00
14		Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP			
	1 ✓	CSR No.5/1/12	Each	2550.00	2550.00
15		Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415, V 32A with neutral link on angle iron / GI frame as per specification no. SW-SWR/MTP.			
	3 ✓	CSR No.5/1/11	Each	1253.00	3759.00
16		Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB			
	2 ✓	CSR No.5/4/19	Each	1270.00	2540.00
17		Supplying, erecting & terminating XLPE armoured cable 4 core 25 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU			
	20 ✓	CSR No.7/2/35	Mtr	1175.00	23500.00
18		Supplying, erecting & terminating XLPE armoured cable 4 core 16 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU			
	FR 35.00 RR 30.00	CSR No.7/2/34	Mtr	FR 734.00 RR 512.00	41050.00
19		Supplying, erecting & terminating XLPE armoured cable 4 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU			
	70 ✓	CSR No.7/2/32	Mtr	336.00	23520.00
20		Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete			
	6 ✓	CSR No.7/6/9	Mtr	179.00	1074.00
21		Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			
	55.50 ✓	CSR No.1/3/7	Mtr	RR 78.00 FR 102.00	4329.00
22		Supplying & erecting mains with 1x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW			
	0	CSR No.1/3/5, Note 3	Mtr	36.50	0.00
23		Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW			

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24	158.35 ✓	CSR No.1/3/1 Supplying & erecting mains with 1x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	Mtr	35.00 ✓	5542.25 ✓
25	367.30 ✓	CSR No.1/3/1, Note 3 Supplying and erecting flat flexible 3 core 2.5 sq mm PVC sheathed submersible type copper cable suitably clamped at fixed intervals with column pipe assembly complete	Mtr	17.50 ✓	6427.75 ✓
26	91 ✓	CSR No.12/4/8 Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	Mtr	119.00 ✓	10829.00 ✓
27	55 ✓	CSR No.2/10/14 Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).	Each	594.00 ✓	32670.00 ✓
28	55 ✓	CSR No.2/1/1 Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	262.00 ✓	14410.00 ✓
29	4 ✓	CSR No.2/12/13 Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MS	Each	1268.00 ✓	5072.00 ✓
30	4 ✓	CSR No.2/13/14 Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete	Each	956.00 ✓	3824.00 ✓
31	0	CSR No.1/8/20 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected	Each	225.00 ✓	0.00 ✓
32	5 ✓	CSR No.1/8/32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected	Each	310.00 ✓	1550.00 ✓
33	4 ✓	CSR No.1/8/30 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	211.00 ✓	844.00 ✓
34	11 ✓	CSR No.1/8/2 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	88.00 ✓	968.00 ✓
35	11 ✓	CSR No.1/8/11 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete	Each	157.00 ✓	1727.00 ✓
36	26 ✓	CSR No.1/8/1 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	65.00 ✓	1690.00 ✓
37	26 ✓	CSR No.1/8/10 Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box	Each	106.00 ✓	2756.00 ✓
38	12 ✓	CSR No.1/8/24 Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Each	18.00 ✓	216.00 ✓
39	19 ✓	CSR No.5/3/2 Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	153.00 ✓	2907.00 ✓
	13 ✓	CSR No.5/3/3	Each	164.00 ✓	2132.00 ✓

40	9 ✓	Supplying, erecting & marking TPMCB 6 A to 32A in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/14	Each	653.00 ✓	5877.00 ✓
41	2 ✓	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete. CSR No.5/3/26	Each	776.00 ✓	1552.00 ✓
42	2 ✓	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete. CSR No.5/3/25	Each	621.00 ✓	1242.00 ✓
43	0	Supplying and erecting PVC trunking (PVC casing-ncapping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No.1/2/11	Mtr	42.00	0.00
44	FR 75.70 RR 152.05	Supplying and erecting HMS PVC conduit 25 mm dia. with PVC accessories on wall /ceiling as per specification No: WG-MA/CON. CSR No.1/2/7	Mtr	FR 76.00 ✓ RR 67.00 ✓	15940.55 ✓
45	83 ✓	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/29	Point	613.00 ✓	50879.00 ✓
46	191.95 ✓	Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW CSR No.1/9/29, Note 1	Point	61.30 ✓	11766.54 ✓
47	0	Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU CSR No.7/9/1	Each	16.00	0.00
48	26.32 ✓	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority. CSR No.6/1/19	Kg	131.00 ✓	3447.92 ✓
49	5.5503 ✓	Supplying and erecting metal work in CRCA sheet with fabrication of boxes, panel boards, etc. including cutting, bending, drilling, welding, riveting, treated with anti-rust treatment and duly powder coated or painted with one coat of red lead paint and 2 coats of enamel paint complete. CSR No.6/1/1	Kg	226.00 ✓	1254.37 ✓
50	2 ✓	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete CSR No.5/3/20	Each	275.00 ✓	550.00 ✓
51	1 ✓	Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2 CSR No.2/5/15	Each	9504.00 ✓	9504.00 ✓
52	6 ✓	Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2 CSR No.2/5/18	Each	21469.00 ✓	128814.00 ✓
53	2 ✓	Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No. FGODF/FLS2. CSR No.2/5/4	Each	3457.00 ✓	6914.00 ✓

54	3 ✓	Supplying and erecting Street light bracket for erection of side entry fitting on pole with 40 mm. dia. 'B' grade G.I. pipe of required length complete as per specification no. FG-BKT/SLB CSR No.2/9/9	Mtr	451.00	1353.00
55	16.50 ✓	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire. CSR No.2/13/6	Mtr	204.00	3366.00
56	208.95 ✓	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3	Mtr	53.00	11074.35
57	55.50 ✓	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	26.50	1470.75
58	1 ✓	Providing & erecting floor / wall mounting, MCCB panel board with door suitable for three pole incoming 400A, 8 ways three pole outgoing up to 100A MCCB on iron frame in compliance of IEC 61439, as per specification no SW-SWR/MCCBPB. (Excluding MCCB'S) CSR No.5/7/22	Each	44800.00 (-) 4099.28	40700.72
59	1 ✓	Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 12 way outgoing or 400A incoming and 6/8 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete. CSR No.5/7/15	Each	18734.00	18734.00
60	1 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole 300A- 400A MCCB complete. (set of 6) CSR No.5/11/3	Each	1410.00	1410.00
61	6 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB complete. (set of 6). CSR No.5/11/1	Each	169.00	1014.00
62	2 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 4 pole upto 100A MCCB complete. (Set of 8) CSR No.5/11/6	Each	272.00	544.00
63	2 ✓	Supplying and erecting selector switch suitable for voltmeter/ammeter for 3 phase AC supply 500V, 50Hz, on provided box / panel and duly connecting with necessary PVC wire leads and lugs CSR No.6/5/1	Each	302.00	604.00
64	3 ✓	Supplying & erecting LED type indicating pilot lamp with LED colour blue, 230 / 250 V on provided box / panel with necessary material, wiring & connections etc. CSR No.6/5/7	Each	229.00	687.00
65	1 ✓	Supplying and erecting panel mounting type digital voltmeter having three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/8	Each	1223.00	1223.00
66	1 ✓	Supplying and erecting panel mounting type digital ammeter having three and half digit LED display, external CT operated, calibrated for suitable to operate on 500V, 0 to 1000A AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/7	Each	1276.00	1276.00

67		Supplying and erecting hylam sheet/ ebonite 6 mm thick for covering wall entries including cutting, drilling and fixing with nut bolts / screws etc. complete.			
68	0	CSR No.6/1/10 Supplying & erecting Siemens type brass cable glands for 3 1/2 core 300 sq. mm. for XLPE armoured cable as per specification no. CB-GL.	Sq.M	1483.00	0.00
69	1 ✓	CSR No.7/7/12 Supplying & erecting Siemens type brass cable glands for 3 1/2 core 150 sq. mm. for XLPE armoured cable as per specification no. CB-GL.	Each	226.00	226.00
70	0	CSR No.7/7/9 Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq. mm. /3 to 4 core 25 sq. mm. /3 core 35 sq. mm. for XLPE armoured cable as per specification no. CB-GL.	Each	154.00	0.00
71	4 ✓	CSR No.7/7/3 Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete.	Each	60.00	240.00
72	6 ✓	CSR No.5/12/1 Making the site clear of dismantled DB and switch gears by refilling the holes with cement mortar & finishing in an approved manner complete.	Each	79.00	474.00
73	6 ✓	CSR No.5/12/2 Dismantling of existing fluorescent fittings of any type & size	Each	59.00	354.00
74	47 ✓	CSR No.2/14/1 Dismantling the existing W.T. fluorescent fitting / S.V./ M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete.	Each	13.00	611.00
75	2 ✓	CSR No.2/14/2 Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Each	39.00	78.00
76	60 ✓	CSR No.1/15/1 Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear	Point	7.00	420.00
77	2 ✓	CSR No.2/14/4 Supplying, erecting & terminating XLPE armoured cable 4 core 4 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU	Each	31.00	62.00
78	79 ✓	CSR No.7/2/31 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Mtr	251.00	19829.00
79	1 ✓	CSR No.9/1/1 Providing earthing with copper earth plate size 30 x 30 x 0.315 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	3931.00	3931.00
80	1 ✓	CSR No.9/1/2 Supplying and erecting Annealed bare copper wire of high purity of different sizes used for earthing on wall with necessary copper clamps fixed on wall/cable/conduit with screws in an approved manner.	Each	5487.00	5487.00
81	0.735 ✓	CSR No.9/2/4 Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Kg	700.00	514.50
82	1.02 ✓	CSR No.9/2/5 Erection of departmentally supplied ceiling fan with necessary materials complete.	Kg	136.00	138.72
	0.	CSR No.2/13/7	Each	90.00	0.00

(B) Credit for dismantled material				
1	PVC armoured/unarmoured cables and wires (Aluminium)			
14 ✓	CSR No.19/1/1	Kg	15.00	210.00 ✓
2	PVC armoured/unarmoured cables and wires (Copper)			
20 ✓	CSR No.19/1/2	Kg	63.00	1260.00 ✓
3	PVC pipes/materials			
12 ✓	CSR No.19/1/7	Kg	8.00	96.00 ✓
4	I.C. / M.C. switches / D.P. / D.B. / T.P. / feeder pillar etc.			
50 ✓	CSR No.19/1/9	Kg	18.00	900.00 ✓
5	Fluorescent/LED tube light fittings			
0	CSR No.19/1/19	Each	14.00	0.00
6	Meters (Ammeter / Voltmeter/Energy meter, etc..)			
2 ✓	CSR No.19/1/15	Kg	228.00	456.00 ✓

2922.00

Total Rs. 651478.21 ✓

73617.04 ✓

5,77,861.17 ✓

Say Rs. 5,77,861.00 ✓

Contractor Quoted 11.30% Below

Measurements are recorded in M.B no. 127 on Page No. 123 to 141.

[Signature]
19/06/2020

Junior Engineer (Elect.)
Sant Gadge Baba Amravati University ✓

CALCULATION

i) Total amount of work (without GST)		577861.00 ✓	
ii) GST 12% (exclusive)		(+) 69343.32 ✓	
		647204.32	647204.00 ✓
iii) Deductions			
a) Security deposit 2.5%			
a) Contractor previously deposited S.D Rs. 16,500/- vide MR No. 275556, dt.19/08/2019	16500.00 ✓		
b) Income Tax 2%	11557.00 ✓		
c) Labour Cess 1%	5779.00 ✓		
d) State Goods & Service Tax 1%	5779.00 ✓		
e) Central Goods & Service Tax 1%	5779.00 ✓		
Total deductions	45394.00		45394.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)			Rs. 601810.00 ✓

(Rs. Six Lacs, One Thousand, Eight Hundred, Ten Only.)

[Signature]
22/6/2020

Supintendent
Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

Sai Electrical Sales & Service

[Signature]
Contractor
19/06/2020

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
23.06.2020
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University ✓

ALLOCATION

Rusa Scheme
(3) Campus Development

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended for
Payment/Adjustment of Rs. 6,01,810.00
19/06/2020
[Signature]

First and Final Bill

Name of Work :- Renovation to electrical installation of old barrack No.3 (Ground floor Math/ Stat) at Sant Gadge Baba Amravati University, Amravati.

(ii) Name of Agency. :- M/s. A.S. Electricals, Amravati.

(iii) Work Order No. :- 60/2019, Dt. 11/09/2019

(iv) Date of Completion :- 02/11/2019

(v) Pan no. of Contractor :- AIBPB8502B

(vi) GST no. of Contractor :- 27AIBPB8502B1ZZ

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP CSR No.5/1/12	Each	2550.00	2550.00
2	1	Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415, V 32A with neutral link on angle iron / GI frame as per specification no. SW-SWR/MTP CSR No.5/1/11	Each	1253.00	1253.00
3	1	Supplying and erecting four pole metal clad ON LOAD change over switch 415V,100A erected on angle iron /GI frame complete. CSR No.5/1/26	Each	7013.00	7013.00
4	2	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB CSR No.5/4/7	Each	2032.00	4064.00
5	6	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/19	Each	1270.00	7620.00
6	1	Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs CSR No.6/3/5	Each	7733.00	7733.00
7	3	Supplying and erecting LT current transformer with bar primary 50/5 to 1000/5 ratio with 15 VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates CSR No.6/5/2	Each	834.00	2502.00
8	4	Supplying & erecting original 1.25 mm CRCA sheet metal enclosures with 20A. 2 pin plug & earth socket and 20A. 3 pin plug top with 20A/30A single pole MCB complete erected on angle iron/ GI frame. CSR No.5/4/20	Each	700.00	2800.00
9	6	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete CSR No.5/3/20	Each	275.00	1650.00
10	2	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete. CSR No.5/3/26	Each	776.00	1552.00
11	26	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/2	Each	153.00	3978.00
12	38	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00	6232.00

14	1	supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size CSR No.2/4/13	Each	123.00	123.00
15	1	Supplying and erecting ISI mark modular type bell-push with indicator 2 modules 6A / 10A, duly erected on provided plate and box with wiring connections complete CSR No.1/8/4	Each	116.00	116.00
16	120	Supplying, erecting & terminating XLPE armoured cable 3½ core 120 sq. mm. aluminium conductor with continuous 12.97 sq. mm. (8 SWG) G.I. earth wire complete erected with glands & lugs, on wall/trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL CSR No.7/1/20	Mtr	640.00	76800.00
17	35	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/33	Mtr	512.00	17920.00
18	100	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete. CSR No.7/6/11	Mtr	301.00	30100.00
19	0.00	Supplying & erecting cast iron cable indicator plate buried along with route of cable for PVC / XLPE armoured cable as per specification no. CB-CIP CSR No.7/8/1	Each	162.00	0.00
20	35.25	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/7	Mtr	102.00	3595.50
21	42.85	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/5	Mtr	73.00	3128.05
22	306.60	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3	Mtr	53.00	16249.80
23	384.70	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3, note 3	Mtr	26.50	10194.55
24	190	Supplying and erecting PVC trunking (PVC casing-ncapping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No.1/2/11	Mtr	42.00	7980.00
25	93	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00	55242.00
26	93	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00	24366.00
	2	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner. CSR No.2/12/13	Each	1268.00	2536.00

		sector shaped with 25 x 25 x 3 (mm) angle iron frame. metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS MSC			
28	2	CSR No.2 13 14	Each	956.00	1912.00
		Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.			
29	2	CSR No.1 8 20	Each	225.00	450.00
		Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF FLS2.			
30	5	CSR No.2 5 3	Each	2605.00	13025.00
		Supplying and erecting Street light bracket for erection of side entry fitting on pole with 40 mm. dia. 'B' grade G.I. pipe of required length complete as per specification no. FG-BKT SLB			
31	5	CSR No.2 9 9	Mtr	451.00	2255.00
		Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2-1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW SW			
32	162	CSR No.1 9 25	Point	433.00	70146.00
		Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2-1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW SW			
33	284.75	CSR No.1 9 25, Note 1	Mtr	43.30	12329.68
		Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority.			
34	5.44	CSR No.6/1/19	Kg	131.00	712.64
		Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.			
35	22	CSR No.1/8/32	Each	310.00	6820.00
		Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.			
36	7	CSR No.1/8/30	Each	211.00	1477.00
		Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.			
37	29	CSR No.1/8/11	Each	157.00	4553.00
		Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.			
38	92	CSR No.1/8/10	Each	106.00	9752.00
		Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.			
39	29	CSR No.1/8/2	Each	88.00	2552.00
		Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.			
40	92	CSR No.1/8/1	Each	65.00	5980.00
		Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP			
	2	CSR No.9/1/1	Each	3931.00	7862.00

41		Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with bituminous paint in an approved manner with joints required. As per specification no EA-EP.			
	0.00	CSR No.9/2/3			
42		Supplying and erecting blanking plate of suitable size on MCB DB complete.	Kg	191.00	0.00
	0.00	CSR No.5/4/24			
43		Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box.	Each	12.00	0.00
	0.00	CSR No.1/8/24			
44		Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU	Each	18.00	0.00
	0.00	CSR No.7/9/1			
45		Dismantling of existing fluorescent fittings of any type & size			
	62	CSR No.2/14/1			
46		Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear	Each	13.00	806.00
	47	CSR No.2/14/4			
47		Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete			
	7	CSR No.5/12/1			
48		Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW			
	120	CSR No.1/15/1			
49		Erection of departmentally supplied ceiling fan with necessary materials complete.	Each	7.00	840.00
	53	CSR No.2/13/7			
					445550.22
	(B)	Credit for dismantled material			
1		All types of Fluorescent/LED tube light fittings			
	0.00	CSR No.19/1/19	Each	14.00	0.00
2		All types of Fan			
	0.00	CSR No.19/1/12	Each	161.00	0.00
3		Switchgears			
	5	CSR No.19/1/9	Kg	18.00	90.00
					90.00
		Total (A) - (B)			445460.22
		Contractor quoted 0.99% Below			4410.06
					441050.16
					Say Rs. 4,41,050/-

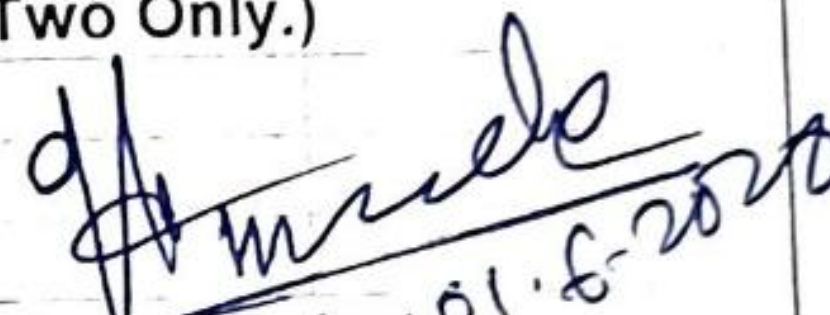
Measurements are recorded in M.B no. 181 on Page No. 26 to 35.


Junior Engineer (Elect.)
Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)		441050.00	
ii) GST 12% (exclusive)	(+)	52926.00	
		493976.00	493976.00
iii) Deductions			
a) Security deposit 2.5%			
Contracter initially previously deposited S.D Rs. 11520/- vide MR No. 275895, dt.31/08/2019		11520.00	
b) Income Tax 2%		8821.00	
c) Labour Cess 1%		4411.00	
d) State Goods & Service Tax 1%		4411.00	
e) Central Goods & Service Tax 1%		4411.00	
Total deductions		33574.00	33574.00
iv) Net payment to Contractor (i) & (ii) - (iii)			Rs. 460402.00

(Rs. Four Lacs, Sixty Thousand, Four Hundred, Two Only.)


Supertendent 01.6.2020
Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

For A.S.Electricals
Contractor 02/05/20

CERTIFICATE


Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmatically & technically checked & found correct. Hence, the bill is fit for payment.


University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University
01.06.20


Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
Academic Buildings
Old Barrack No. 03
(math & Stat Dept) (a)


Executive Engineer
Sant Gadge Baba Amravati University

First and Final Bill

Name of Work :- Renovation to the Electrical installaton of M.B.A. Department, Sant Gadge Baba Amravati Univeristy Campus, Amravati.

(ii) Name of Agency. :- Univers Electricals & Consultancy, Amravati.

(iii) Work Order No. :- 51/2019, Dt. 28/08/2019

(iv) Date of Completion :- 20/10/2019

(v) Pan no. of Contractor :- DHCPK0892N

(vi) GST no. of Contractor :- 27DHCPK0892N1ZV

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Providing & erecting floor / wall mounting, MCCB panel board with door suitable for three pole incoming 250A, 8 ways three pole outgoing up to 100A MCCB on iron frame in compliance of IEC 61439, as per specification no SW-SWR/MCCBPB. (Excluding MCCB'S) CSR No.5/7/19	Each	41652.00	41652.00
2	1	Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 8 way outgoing or 400A incoming and 6 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete. CSR No.5/7/14	Each	15884.00	15884.00
3	1	Providing & erecting 3 Pole MCCB of 250A,415V capacity with short circuit rating 36 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/3	Each	12264.00	12264.00
4	1	Providing & erecting 3 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/1	Each	4507.00	27042.00
5	6	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB complete. (set of 6). CSR No.5/11/1	Set	169.00	1014.00
6	6	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 250A MCCB complete. (set of 6) CSR No.5/11/2	Set	799.00	799.00
7	1	Supplying & erecting crimping type aluminium lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/AL CSR No.7/10/1	Each	7.00	0.00
8	0.00	Supplying & erecting crimping type copper lugs for cable up to 16 sq. mm. complete as per specification no. CB-CL/CU CSR No.7/9/1	Each	16.00	0.00
9	0.00	Supplying & erecting Siemens type brass cable glands for 3 to 4 core 16 sq. mm. /3 to 4 core 25 sq. mm. /3 core 35 sq. mm. for XLPE armoured cable as per specification no. CB-GL CSR No.7/7/3	Each	60.00	180.00
10	3	Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs. CSR No.6/2/5	Each	7722.00	7722.00

MEASUREMENT BOOK

ST/Eno/167/or/85/03/04/100R

11		Supplying and erecting LT current transformer with bar primary 50/5 to 1000/5 ratio with 15 VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates.			
	3 ✓	CSR No.6/5/2	Each	834.00 ✓	2502.00 ✓
12		Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.			
	0.00	CSR No.6/1/2	Sqm	2117.00 ✓	0.00
13		Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority			
	15.336 ✓	CSR No.6/1/19	Kg	131.00 ✓	2009.02 ✓
14		Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP			
	2 ✓	CSR No.9/1/1	Each	3931.00 ✓	7862.00 ✓
15		Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/conduit with screws in an approved manner.			
	0.00	CSR No.9/2/5	Kg	136.00 ✓	0.00
16		Supplying and erecting extended rotary handle for MCCB with adjustable telescopic rod suitable for upto 250A MCCB complete.			
	1 ✓	CSR No.5/11/14	Each	1113.00 ✓	1113.00 ✓
17		Supplying and erecting panel mounting type digital ammeter having three and half digit LED display, external CT operated, calibrated for suitable to operate on 500V, 0 to 1000A AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer.			
	1 ✓	CSR No.6/3/7	Each	1276.00 ✓	1276.00 ✓
18		Supplying and erecting panel mounting type digital voltmeter having three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer.			
	1 ✓	CSR No.6/3/8	Each	1223.00 ✓	1223.00 ✓
19		Supplying and erecting selector switch suitable for voltmeter/ammeter for 3 phase AC supply 500V, 50Hz, on provided box / panel and duly connecting with necessary PVC wire leads and lugs.			
	2 ✓	CSR No.6/5/1	Each	302.00 ✓	604.00 ✓
20		Supplying & erecting LED type indicating pilot lamp with LED colours red / yellow / green, 230 / 250V on provided box / panel with necessary material, wiring & connections etc.			
	3 ✓	CSR No.6/5/6	Each	172.00 ✓	516.00 ✓
21		Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways. on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
	1 ✓	CSR No.5/4/7	Each	2032.00 ✓	2032.00 ✓
22		Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB			
	5 ✓	CSR No.5/4/10	Each	1270.00 ✓	6350.00 ✓

699=01

302

172

23		Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete. CSR No.5/3/26	Each	776.00	776.00	
24	1 ✓	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. In provided distribution board complete. CSR No.5/3/20	Each	275.00	1375.00	
25	5 ✓	Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB CSR No.5/3/2	Each	153.00	5355.00	765
26	35 ✓	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00	3444.00	
27	21 ✓	Supplying, erecting & terminating XLPE armoured cable 4 core 16 sq. mm. copper conductor with continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/34	Mtr	734.00	33764.00	
28	46 ✓	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/33	Mtr	512.00	12288.00	
29	24 ✓	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/7	Mtr	102.00	12255.30	
30	120.15 ✓	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3	Mtr	53.00	23935.33	8035.7
31	451.61 ✓	Supplying & erecting mains with 2x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/5	Mtr	73.00	3861.70	
32	52.90 ✓	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	26.50	16553.49	5508 = 91
33	624.66 ✓	Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No.1/2/11	Mtr	42.00	9972.90	
34	237.45 ✓	Supplying and erecting LED square / circular 16 to 20W down lighter having pressure die-cast aluminium housing, opal translucent cover, mounting arrangement with board for surface type or spring loaded mounting clips for flush type complete. CSR No.2/1/5	Each	1212.00	42420.00	
35	35 ✓	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00	103356.00	
36	174 ✓	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00	42444.00	
37	162 ✓	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire				

38	42.56 ✓	CSR No.2/13/6 Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Mtr	204.00 ✓	8682.24 ✓
39	6 ✓	CSR No.2/12/13 Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MS	Each	1268.00 ✓	7608.00 ✓
40	6 ✓	CSR No.2/13/14 Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	956.00 ✓	5736.00 ✓
41	6 ✓	CSR No.1/8/20 Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	225.00 ✓	1350.00 ✓
42	0.00	CSR No.2/10/11 Point wiring for light/fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/HW	Each	218.00	0.00
	233 ✓	CSR No.1/9/15	Point	RR 433.00 ✓ FR 444.00	100889.00 ✓
43		Point wiring for light/fan/bell hybrid type (Surface type under false ceiling and concealed type for drops & switch boards on walls) in min 20 mm PVC conduit / casing n capping with 1.5 sq.mm. (2+1E) FR grade copper wires, modular type switch, earthing and required accessories as per specification No: WGPW/HW			
	324.50 ✓	CSR No.1/9/15, Note 1	Mtr	RR 43.30 ✓ FR 44.30	14050.85 ✓
44		Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW			
	0.00	CSR No.1/9/25	Point	433.00	0.00
45		Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW			
	0.00	CSR No.1/9/25, Note 1	Mtr	43.30	0.00
46		Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.			
47	28 ✓	CSR No.1/8/32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	310.00 ✓	8680.00 ✓
48	7 ✓	CSR No.1/8/30 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	211.00 ✓	1477.00 ✓
49	35 ✓	CSR No.1/8/11 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete	Each	157.00 ✓	5495.00 ✓
50	35 ✓	CSR No.1/8/2 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete	Each	88.00 ✓	3080.00 ✓
51	111 ✓	CSR No.1/8/1 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	65.00 ✓	7215.00 ✓
	111 ✓	CSR No.1/8/10	Each	106.00	11766.00

52	1	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size CSR No.2/4/13	Each	123.00	123.00	
53	1	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete. CSR No.1/8/3	Each	95.00	95.00	
54	6	Dismantling the existing switchgears, DB, and bus bar of any size complete with/ without board or angle iron frame complete. CSR No.5/12/1	Each	79.00	474.00	
55	69	Dismantling of existing fluorescent fittings of any type & size. CSR No.2/14/1	Each	13.00	897.00	
56	60	Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. CSR No.2/14/4	Each	31.00	1860.00	
57	160	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW CSR No.1/15/1	Point	7.00	1120.00	
58	0.00	Concealing of provided M.S./ PVC switch box in wall with finishing as per specification No: WG-PW/CW CSR No.1/9/20	Each	52.00	0.00	
59	10	Supplying & laying HMS PVC conduit 20 mm dia. with necessary accessories in RCC work/false ceiling/false flooring as per specification No. WG-MA/CC. CSR No.1/1/8	Mtr	RR 67.00 FR 80.00	670.00	
60	0.00	Concealing of provided G.I. pipe/H.G. screwed conduit/PVC pipe in wall/floor/false ceiling complete as per specification No: WG-PW/CW CSR No.1/1/13	Mtr	57.00	0.00	
61	2	Supplying and erecting self-locking arrangement with keys in duplicate, made of brass duly erected, flush with surface of panel / cupboard CSR No.6/1/20	Each	240.00	480.00	
62	60	Erection of departmentally supplied ceiling fan with necessary materials complete. CSR No.2/13/7	Each	90.00	5400.00	
					Total (A)	631003.83
(B) Credit for dismantled material						
(i)	0.00	Fluorescent/LED tube light fittings CSR No.19/1/19		14.00	0.00	
(ii)	0.00	Ceiling/cabin/bracket/pedestal/table fan. CSR No.19/1/12		161.00	0.00	
(iii)	40.00	PVC armoured/unarmoured cables and wires (Aluminium) CSR No.19/1/1	Kg	15.00	600.00	
(iv)	5.00	PVC armoured/unarmoured cables and wires (Copper) CSR No.19/1/2	Kg	63.00	315.00	
(v)	12.00	PVC pipes/materials CSR No.19/1/7	Kg	8.00	96.00	
(vi)	15.00	I.C. / M.C. switches / D.P. / D.B. / T.P. / feeder pillar etc. CSR No.19/1/9	Kg	18.00	270.00	
					(-)	1281.00
					(A) - (B)	629722.83
Below 9.20% (-)						57934.50
						571788.33
					Say	571788.00

Measurements are recorded in M.B no. 121 on Page No. 151 to 165.

(Signature)
05/01/2020
Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	571788.00 ✓	
ii) GST 12% (exclusive)	(+) 68614.56 ✓	
	<u>640402.56</u> ✓	640403.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
a) Contractor previously deposited S.D Rs. 18300/- vide MR No. 267840, dt.03/08/2019	18300.00 ✓	
b) Income Tax 2%	11436.00 ✓	
c) Labour Cess 1%	5718.00 ✓	
d) State Goods & Service Tax 1%	5718.00 ✓	
e) Central Goods & Service Tax 1%	5718.00 ✓	
Total deductions	46890.00 ✓	46890.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 593513.00 ✓

(Rs. Five Lacs Ninty Three Thousand Five Hundred Thirteen Only.)

(Signature)
17.1.2020
Supriendent

Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

Univers Electricals & Consultancy

(Signature)
5/1/2020
Proprietor
Contractor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

(Signature)
17.01.2020
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

(Signature)
Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
1. Acadmic Buildings
d) (i) M.B.A. Buildings

(Signature)
Executive Engineer
Sant Gadge Baba Amravati University

Approved & Recommended for
Payment of Rs. 5,93,513/-
(Signature)
23/1/2020
Supd.

First and Final Bill

Name of Work :- Renovation to the electrical installation of K.G. Doshmukh Hall at Sant Gadge Baba Amravati University Campus, Amravati.

(ii) Name of Agency :- M/s. A.S. Electricals, Amravati.

(iii) Work Order No. :- 49/2019, Dt. 28/08/2019

(iv) Date of Completion :- 21/09/2019

(v) Pan no. of Contractor :- AIBPB8502B

(vi) GST no. of Contractor :- 27AIBPB8502B1ZZ

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP. CSR No.5/1/12	Each	2550.00	5100.00
2	2	Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415, V 32A with neutral link on angle iron / GI frame as per specification no. SW-SWR/MTP. CSR No.5/1/11	Each	1253.00	2506.00
3	2	Supplying and erecting panel mounting type digital voltmeter having three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/8	Each	1223.00	4892.00
4	4	Supplying and erecting panel mounting type digital ammeter having three and half digit LED display, external CT operated, calibrated for suitable to operate on 500V, 0 to 1000A AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/7	Each	1276.00	5104.00
5	6.4044	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. CSR No.6/1/2	Sq.M.	2117.00	13558.11
6	10.92	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority CSR No.6/1/19	Kg	131.00	1430.52
7	2	Supplying and erecting D.O.L. Starter 400V, 3 phase, 50 cycles with no volt coil and overload element with necessary materials and connected to supply upto 7.5 H.P. CSR No.12/4/2	Each	1790.00	3580.00
8	2	Supplying and erecting fully Automatic star/delta starter suitable for 12.5 H.P. to 15 H.P. for 3 phase squirrel cage motor totally enclosed with overload and no volt relay complete erected on provided angle iron frame. CSR No.12/4/4	Each	6361.00	12722.00
9	15	Supplying, erecting & terminating XLPE armoured cable 4 core 6 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/32	Mtr	336.00	5040.00
10	58.50	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU CSR No.7/2/33	Mtr	512.00	29952.00

11	1 ✓	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 6 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB CSR No.5/4/18	Each	1056.00 ✓	1056.00 ✓
12	1 ✓	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete. CSR No.5/3/20	Each	275.00 ✓	275.00 ✓
13	4 ✓	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00 ✓	656.00 ✓
14	2 ✓	Supplying and erecting Centrifugal water pump (Monoblock), 415 V, three phase 50 cycles A.C. supply of 5.625 KW/7.5 HP with discharge 4.5/8.6 Litres per second (LPS) for head of 32/52 m and 65 mm suction/ 50 mm delivery pipe of size or with discharge of 11.1/19.9 Litres per second (LPS) for head of 16/30 m and 80mm suction/ 65mm delivery pipe of size, on provided C.C. foundation as per specification no. WP-CGP CSR No.12/1/11	Each	28319.00 ✓	56638.00 ✓
15	0	Supplying and erecting regular/ standard model ceiling fan of 600mm. sweep complete erected in position as per specification no. FG-FN/CF CSR No.2/12/1	Each	1667.00 ✓	0.00
16	4 ✓	Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP CSR No.9/1/1	Each	3931.00 ✓	15724.00 ✓
17	0	Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner. CSR No.9/2/5	Kg	136.00	0.00
18	13.57 ✓	Supplying and erecting GI strip of required size used for earthing on wall and/or any other purpose with necessary GI clamps fixed on wall painted with insulating and non-corrosive bond in an approved manner with required joints As per specification no. EAEP. CSR No.9/2/8	Kg	402.00 ✓	5455.14 ✓
19	30 ✓	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary. CSR No.2/10/14	Each	594.00 ✓	17820.00 ✓
20	30 ✓	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light). CSR No.2/1/1	Each	262.00 ✓	7860.00 ✓
21	19 ✓	Supplying and erecting square / round shaped CRCA /die-cast aluminium powder coated housing LED panel (slim edge-lit) light suitable for 13W to18W with provision for plane front frame with translucent cover fixed to the housing complete. CSR No.2/1/8	Each	927.00 ✓	17613.00 ✓
22	19 ✓	Making suitable size of recess in any type of false ceiling for erection of flush type LED panel light 600mm x 600mm and finishing the background to match the original ceiling surface. CSR No.2/1/18	Each	RR 65.00 ✓ FR 112.00 ✓	1235.00 ✓
23	0	Supplying and erecting ISI mark modular type (two module) electronic step regulator for fan, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/23	Each	348.00 ✓	0.00

3

2239

24		Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire.			
25	0	CSR No.2/13/6	Mtr	204.00	0.00
26	0	Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	433.00	0.00
27	0	CSR No.1/9/25, Note 1	Mtr	43.30	0.00
28	2 ✓	Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	613.00 ✓	1226.00 ✓
29	0	CSR No.1/9/29, Note 1	Mtr	61.30	0.00
30	2 ✓	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner	Each	1268.00 ✓	2536.00 ✓
31	1 ✓	CSR No.2/12/13	Each	956.00 ✓	956.00 ✓
32	2 ✓	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	Each	225.00 ✓	450.00 ✓
33	4 ✓	CSR No.2/12/4	Each	1940.00 ✓	7760.00 ✓
34	2 ✓	Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2	Each	9504.00 ✓	19008.00 ✓
35	2 ✓	CSR No.2/5/15	Each	7039.00 ✓	14078.00 ✓
36	3 ✓	Supplying and erecting LED Flood light fitting of 150W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2	Each	14526.00 ✓	43578.00 ✓
37	2 ✓	CSR No.2/5/17	Each	21469.00 ✓	42938.00 ✓
	12.65 ✓	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	53.00 ✓	670.45 ✓
		CSR No.1/3/3			

703

213

38		Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW			
	12.65 ✓	CSR No.1/3/3, Not 3	Mtr	26.50 ✓	335.23 ✓
39		Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.			
	4.60 ✓	CSR No.1/2/11	Mtr	42.00 ✓	193.20 ✓
40		Supplying and erecting Recess mounted 30W LED wall washers, tilted 70° outwards and swivels 360° to offer best illumination on the wall with any colour with driver complete. (Including Compatible Driver)			
	0	CSR No.2/5/20	Each	4869.00	0.00
41		Dismantling of existing fluorescent fittings of any type & size.			
	34 ✓	CSR No.2/14/1	Each	13.00 ✓	442.00 ✓
42		Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear.			
	8 ✓	CSR No.2/14/4	Each	31.00 ✓	248.00 ✓
43		Point wiring for independent plug in PVC trunking (casingcapping) with 1.5 sq.mm (2+1E) FR grade copper wire with flush type switch and required accessories as per specification No: WG-PW/SW			
	0	CSR No.1/9/18	Each	628.00	0.00
44		Erection of departmentally supplied ceiling fan with necessary materials complete			
	6 ✓	CSR No.2/13/7	Each	90.00 ✓	540.00 ✓
					343175.65
	(B)	Credit for dismantled material			
1		All types of Fluorescent/LED tube light fittings			
	0	CSR No.19/1/19	Each	14.00	0.00
2		All types of Fan			
	0	CSR No.19/1/12	Each	161.00	0.00
3		PVC armoured/unarmoured cables and wires (Copper)			
	2 ✓	CSR No.19/1/2	Kg	63.00 ✓	126.00 ✓
4		Street/flood light fittings.			
	2 ✓	CSR No.19/1/20	Each	56.00 ✓	112.00 ✓
5		PVC pipes/materials			
	2 ✓	CSR No.19/1/7	Kg	8.00 ✓	16.00 ✓
					254.00
					342921.65
					54,867.46
					2,88,054.19
					2,88,054.00
			Say		

Measurements are recorded in M.B no. 121 on Page No. 173 to 181.

[Signature]
Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	288054.00 ✓	
ii) GST 12% (exclusive)	(+) 34566.00 ✓	
	322620.00	322620.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
a) Contractor previously deposited S.D Rs. 9500/- vide MR No. 267834, dt. 31/07/2019	9500.00 ✓	
b) Income Tax 2%	5761.00 ✓	
c) Labour Cess 1%	2881.00 ✓	
d) State Goods & Service Tax 1%	2881.00 ✓	
e) Central Goods & Service Tax 1%	2881.00 ✓	
Total deductions	23904.00 ✓	23904.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 298716.00 ✓

(Rs. Two Lacs, Ninty Eight Thousand, Seven Hundred, Sixteen Only.)

[Signature]
22/6/2020

Supltendent

Engineering Section

Sant Gadge Baba Amravati University

I agree to above payment & deductions.

For A.S.Electricals

[Signature]
18/6/20

Contractor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
23/06/2020

University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]

Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
(8) Auditorium
(a) Renovation of Auditorium Dr. K.G. Deshmukh Hall including furniture.

[Signature]

Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended by
Sumit / Adjustment of Rs. 3,22,620/-
[Signature]
19/9/2020
Supt.

First and Final Bill

Name of Work :- Renovation to electrical installation of Godown Near Store Department at Sant Gadge Baba Amravati University, Amravati.

(ii) Name of Agency :- M/s. A.S. Electricals, Amravati.

(iii) Work Order No. :- 28/2019. Dt. 26/07/2019

(iv) Date of Completion :- 10/09/2019

(v) Pan no. of Contractor :- AIBPB8502B

(vi) GST no. of Contractor :- 27AIBPB8502B1ZZ

2

Sno.	Qty	Item	Unit	Rate	Amount
1	1	Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways. on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
	2 ✓	CSR No.5/4/7	Each	2032.00 ✓	4064.00 ✓
2	2 ✓	Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB			
	2 ✓	CSR No.5/4/19	Each	1270.00 ✓	2540.00 ✓
3	2 ✓	Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP.			
	1 ✓	CSR No.5/1/12	Each	2550.00 ✓	2550.00 ✓
4	1 ✓	Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete.			
	2 ✓	CSR No.5/3/25	Each	621.00 ✓	1242.00 ✓
5	2 ✓	Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete.			
	3 ✓	CSR No.5/3/20	Each	275.00 ✓	825.00 ✓
6	3 ✓	Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete.			
	2 ✓	CSR No.5/4/23	Each	339.00 ✓	678.00 ✓
7	2 ✓	Supplying, erecting & marking FPMCB 6A to 32A in provided distribution board as per specification no. SW-SWR/MCB			
	1 ✓	CSR No.5/3/16	Each	905.00 ✓	905.00 ✓
8	1 ✓	Supplying and erecting four pole power contactor 430 V, 16 A for time switch complete erected on provided wooden block/ box. with necessary materials.			
	1 ✓	CSR No.4/4/4	Each	1289.00 ✓	1289.00 ✓
9	1 ✓	Supplying and erecting quartz electronic time switch having 24 hour dial to work on 250 V 50 cycle AC having built in rechargeable nickel cadmium batteries to run the time switch on failure of supply having switch contact rating upto 16A to use independently or in conjunction with contactor			
	1 ✓	CSR No.4/4/1	Each	2366.00 ✓	2366.00 ✓
10	1 ✓	Supplying and laying (including excavation of suitable width & depth up to 90 cm) 50 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface. to required depth complete			
	10 ✓	CSR No.7/6/9	Mtr	179.00 ✓	1790.00 ✓
11	10 ✓	Supplying, erecting & terminating XLPE armoured cable 4 core 10 sq. mm. copper conductor continuous 5.48 sq. mm. (12 SWG) G.I. earth wire complete erected with glands & lugs. on wall trusses/ pole or laid in provided trench/ pipe as per specification no. CB-LT/CU			
	50 ✓	CSR No.7/2/33	Mtr	512.00 ✓	25600.00 ✓
12	50 ✓	Supplying and erecting LED Flood light fitting of 200W, including lamp. with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification			
	1 ✓	No FG-ODF/FLS-2 CSR No.2/5/18	Each	21469.00 ✓	21469.00 ✓

13	✓	Supplying and erecting LED Flood light fitting of 150W. including lamp. with PF > 0.95.class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
14	2 ✓	CSR No.2/5/17 Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority	Each	14526.00 ✓	29052.00 ✓
15	19 ✓	CSR No.6/1/19 Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint.	Kg	131.00 ✓	2489.00 ✓
16	1.0918 ✓	CSR No.6/1/2 Supplying and erecting plywood 12 mm thick fixed to wall or on provided panel board with necessary materials such as screws, wall fasteners supports, nuts bolts etc. complete	Sqm	2117.00 ✓	2311.34 ✓
17	0.09 ✓	CSR No.6/1/12 Making cement concrete foundation including excavation (60 x 60 x 150) cm deep in 1:3:6 cement concrete 20 x 25 mm stone metal, (45 x 45 x 45) cm /45 cm dia. x 45 cm height plinth duly plastered, with necessary curing and finishing complete. (above 6 m to 9 m poles)	Sqm	660.00 ✓	59.40 ✓
18	1 ✓	CSR No.16/3/3 Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary	Each	1825.00 ✓	1825.00 ✓
19	62 ✓	CSR No.2/10/14 Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet. T8 LED tube light (excluding tube light).	Each	594.00 ✓	36828.00 ✓
20	62 ✓	CSR No.2/1/1 Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire	Each	262.00 ✓	16244.00 ✓
21	34.80 ✓	CSR No.2/13/6 Supplying and erecting exhaust fan heavy duty 230 V, A.C. 50 cycles 375/380 mm. 900 RPM complete erected in position as per specification no. FG-FN/EXF	Mtr	204.00 ✓	7099.20 ✓
22	15 ✓	CSR No.2/12/16 Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	3123.00 ✓	46845.00 ✓
23	15 ✓	CSR No.1/8/20 Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 400 mm as per specification no FG-FAS/MS	Each	225.00 ✓	3375.00 ✓
24	15 ✓	CSR No.2/13/15 Providing and erecting bracket fan 400 mm, sweep A. C. 230 volts 50 cycles 1350 R.P.M. Oscillating type, plastic or metal blades chrome plated guard with regulator and moisture proof treatment to winding and with 'E' class insulation.	Each	1078.00 ✓	16170.00 ✓
25	4 ✓	CSR No.2/12/4 Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Each	1940.00 ✓	7760.00 ✓
	119 ✓	CSR No.1/9/29	Point	613.00 ✓	72947.00 ✓

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26	Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2011) ER grade copper wire, modular type switch, earthing and required accessories as per specification No: WGI-PW/SW			
27	447.90 ✓ CSR No.1/9/29, Note 1 Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WQMA/BW	Mtr	61.30 ✓	27456.27 ✓
28	116 ✓ CSR No.1/3/3 Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WQMA/BW	Mtr	53.00 ✓	6148.00 ✓
29	116 ✓ CSR No.1/3/3, Note 3 Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WGI-MA/CON.	Mtr	26.50 ✓	3074.00 ✓
30	85.10 ✓ CSR No.1/2/11 Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Mtr	42.00 ✓	3574.20 ✓
31	15 ✓ CSR No.5/3/2 Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	153.00 ✓	2295.00 ✓
32	29 ✓ CSR No.5/3/3 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	164.00 ✓	4756.00 ✓
33	2 ✓ CSR No.9/1/1 Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/conduit with screws in an approved manner.	Each	3931.00 ✓	7862.00 ✓
34	0 ✓ CSR No.9/2/5 Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted.	Kg	136.00 ✓	0.00 ✓
35	36 ✓ CSR No.2/13/3 Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF/FLS2	Each	179.00 ✓	6444.00 ✓
36	2 ✓ CSR No.2/5/3 Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	Each	2605.00 ✓	5210.00 ✓
37	2 ✓ CSR No.2/9/4 Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete	Each	627.00 ✓	1254.00 ✓
38	6 ✓ CSR No.1/2/1 Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected	Mtr	74.00 ✓	444.00 ✓
39	3 ✓ CSR No.1/8/32 Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	310.00 ✓	930.00 ✓
40	3 ✓ CSR No.1/8/30 Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete	Each	211.00 ✓	633.00 ✓
41	6 ✓ CSR No.1/8/11 Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete.	Each	157.00 ✓	942.00 ✓

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42	6 ✓	CSR No.1/8/2 Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete.	Each	88.00 ✓	528.00 ✓	
43	23 ✓	CSR No.1/8/10 Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete.	Each	106.00 ✓	2438.00 ✓	530
44	23 ✓	CSR No.1/8/1 Supplying and erecting blanking plate of suitable size on MCB DB complete	Each	65.00 ✓	1495.00 ✓	32
45	0	CSR No.5/4/24 Supplying and erecting ISI mark modular type blanking plate one module, duly erected on provided plate & box.	Each	12.00 ✓	0.00	
46	10 ✓	CSR No.1/8/24 Providing recess in brick wall suitable for erection of exhaust fan up to 450mm. sweep complete with grouting of nut, bolts, plastering and colour washing to match the colour of the wall for the wall thickness of 225 mm.	Each	18.00 ✓	180.00 ✓	
47	0	CSR No.2/13/11 Dismantling of existing fluorescent fittings of any type & size.	Each	327.00	0.00	
48	26 ✓	CSR No.2/14/1 Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories. G.I. down rod, frame etc. and making the site clear.	Each	13.00 ✓	338.00 ✓	
49	21 ✓	CSR No.2/14/4 Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW	Each	31.00 ✓	651.00 ✓	
50	60 ✓	CSR No.1/15/1 Erection of departmentally supplied ceiling fan with necessary materials complete.	Point	7.00 ✓	420.00 ✓	
	36 ✓	CSR No.2/13/7	Each	90.00 ✓	3240.00 ✓	120
					<u>388635.41</u>	
1	(B)	Credit for dismantled material				
	0	All types of Fluorescent/LED tube light fittings	Each	14.00	0.00	
2	0	CSR No.19/1/19	Each	161.00	0.00	
3	0	All types of Fan	Each	161.00	0.00	
	0	CSR No.19/1/12	Each	161.00	0.00	
4	8 ✓	PVC armoured/unarmoured cables and wires (Aluminium)	Kg	15.00 ✓	120.00 ✓	
	0	CSR No.19/1/1	Kg	15.00	120.00	
5	0	PVC armoured/unarmoured cables and wires (Copper)	Kg	63.00	0.00	
	0	CSR No.19/1/2	Kg	63.00	0.00	
6	3 ✓	I.C. / M.C. switches / D.P. / D.B. / T.P. / feeder pillar etc.	Kg	18.00 ✓	54.00 ✓	
	6 ✓	CSR No.19/1/9	Kg	18.00	54.00	
	6 ✓	PVC pipes/materials	Kg	8.00 ✓	48.00 ✓	
	6 ✓	CSR No.19/1/7	Kg	8.00	48.00	
					<u>222.00</u>	
Total (A) - (B)					<u>388413.41</u>	
Contractor quoted 5.56% Below					<u>21595.79</u>	
					<u>366817.62</u>	
Say Rs.					<u>366818.00</u>	

Measurement are recorded by M.B No. 151 on page No.

150 to 161

CALCULATION

i) Total amount of work (without GST)		366818 00 ✓	
ii) GST 12% (exclusive)	(+)	44018.16 ✓	
		<u>410836.16</u>	410836.00 ✓
iii) Deductions			
a) Security deposit 2.5%			
a) Contractor previously deposited S.D Rs. 10800/- vide MR No. 256358, dt 08/07/2019		10800.00 ✓	
b) Income Tax 2%		7337.00 ✓	
c) Labour Cess 1%		3669.00 ✓	
d) State Goods & Service Tax 1%		3669.00 ✓	
e) Central Goods & Service Tax 1%		<u>3669.00</u> ✓	
	Total deductions	29144.00 ✓	29144.00
iv) Net payment to Contractor (i) & (ii) - (iii)			Rs. 381692.00 ✓

(Rs. Three Lac, Eighty One Thousand, Six Hundred, Ninty Two Only.)

[Signature]
03.2.2020

Supriendent
Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

For A.S. Electricals

Contractor *[Signature]* 29/1/20 ✓

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmatically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
04.02.20

University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]

Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
Administrative Buildings
b) (ii) Godown Near store Department

[Signature]
04/2/20

Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended for
Payment/Adjustment of Rs. 4,10,836.16

[Signature]
29.2.20
Clerk Supdt

First and Final Bill

Name of Work :- Electrification work for the installation of Area lighting of Valuation Building at Sant Gadge Baba Amravati University campus, Amravati.

(ii) Name of Agency :- M/s. A.S. Electricals, Amravati.

(iii) Work Order No. :- 49/2019, Dt 28/08/2019

(iv) Date of Completion :- 15/09/2019

(v) Pan no. of Contractor :- AIBPB8502B

(vi) GST no. of Contractor :- 27AIBPB8502B1ZZ

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying and erecting LED Flood light fitting of 150W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2	Each	14526.00	130734.00
2	9	CSR No.2/5/17			
3	3	Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF/FLS2	Each	2605.00	7815.00
3	3	CSR No.2/5/3			
4	3	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority	Each	3457.00	10371.00
4	3	CSR No.2/5/4			
5	16.38	Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	Kg	131.00	2145.78
5	6	CSR No.2/9/4			
6	6	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Each	667.00	4002.00
6	16	CSR No.1/9/29			
7	16	Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	613.00	9808.00
7	108.55	CSR No.1/9/29, Note 1			
8	108.55	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	61.30	6654.12
8	72.10	CSR No.1/3/3			
9	72.10	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	53.00	3821.30
9	4.60	CSR No.1/3/3, Note 3			
10	4.60	Supplying & erecting mains with 1x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	Mtr	26.50	121.90
10	0.00	CSR No.1/3/1			
11	0.00	Supplying & erecting mains with 2x1.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW	Mtr	35.00	0.00
11	0.00	CSR No.1/3/1, Note 3			
	0.00		Mtr	17.50	0.00

12	3.30 ✓	Supplying and erecting PVC trunking (PVC casing-ncapping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON CSR No.1/2/11	Mtr	42.00 ✓	138.60 ✓
13	4.80 ✓	Supplying and erecting UPVC reinforced flexible conduit 20 mm in dia. conforming to I.S. with required number of couplings, PVC bushes, check nuts etc. complete. CSR No.1/2/1	Mtr	74.00 ✓	355.20 ✓
14	0.00	Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB CSR No.5/3/3	Each	164.00	0.00
15	10 ✓	Dismantling the existing W.T. fluorescent fitting / S.V./ M.V. / M.H. lamp /LED fitting from wall with brackets and making the site as original complete. CSR No.2/14/2	Each	39.00 ✓	390.00 ✓
16	10 ✓	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW CSR No.1/15/1	Point	7.00 ✓	70.00 ✓
					176426.90 ✓
1	0.00	(B) Credit for to Dismantled Material Street/flood light fittings. CSR No.19/1/20	Each	56.00	0.00
2	10	I.C. / M.C. switches / D.P. / D.B./ T.P. / feeder pillar etc. CSR No.19/1/9	Kg	18.00	180.00
3	20	PVC armoured/unarmoured cables and wires (Aluminium) CSR No.19/1/1	Kg	15.00	300.00
					Rs. 480.00
					(A)-(B) 175946.90 ✓
					Rs. 17594.69 ✓
					Rs. 158352.21 ✓
					Say Rs. 158352.00 ✓

Below 10%

Measurements are recorded in M.B no. 128 on Page No. 185 to 188.

(Signature)
Junior Engineer (Elect.)

Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	158352.00	
ii) GST 12% (exclusive)	(+) 19002.24 ✓	
	177354.24	177354.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
a) Contractor previously deposited S.D Rs. 4900/- vide MR No. 267835, dt.03/08/2019	4900.00 ✓	
b) Income Tax 2%	3167.00 ✓	
c) TDS 2%	3167.00 ✓	
d) Labour Cess 1%	1584.00 ✓	
	Total deductions 12818.00 ✓	12818.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 164536.00 ✓

(Rs. One Lac Sixty Four Thousand Five Hundred Thirty Six Only.)

I agree to above payment & deductions.

For A.S.Electricals

Contractor *(Signature)* 25/12/19

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmatically & technically checked & found correct. Hence, the bill is fit for payment.

(Signature)
26.12.19
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

(Signature)
Executive Engineer
Sant Gadge Baba Amravati University

Rusa Scheme

(b) (iii) Area Lighting of Valuation Buildings by LED fittings.

(Signature)
27/12
Executive Engineer

Sant Gadge Baba Amravati University

Audited & Recommended for Payment/Adjustment of Rs. 1,64,536.00 ✓

(Signature)
11/12/19
Chief Supdt.

First and Final Bill

Name of Work :- Renovation to the Electrical Installation of Pavilion at Sport Sector, Sant Gadge Baba Amravati Univesity Campus, Amravati.

(ii) Name of Agency :- M/s. A.S. Electricals, Amravati.

(iii) Work Order No. :- 31/2019, Dt. 30/07/2019

(iv) Date of Completion :- 20/08/2019

(v) Pan no. of Contractor :- AIBPB8502B

(vi) GST no. of Contractor :- 27AIBPB8502B1ZZ

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB			
	1 ✓	CSR No.5/4/7	Each	2032.00	2032.00
2		Supplying and erecting triple pole metal clad HC type rewirable fuse and switch 415V, 63A with neutral link on angle iron /GI frame as per specification no. SW-SWR/MTP.			
	1 ✓	CSR No.5/1/12	Each	2550.00	2550.00
3		Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 80/100A in provided distribution board complete.			
	1 ✓	CSR No.5/3/26	Each	776.00	776.00
4		Supplying and erecting static energy meter 440 V 50 Hz. 100A ISI mark meter AC 3 phase 4 wires LCD/LED display complete erected on polished teak wood board duly wired with required size of weather proof PVC wires duly tested for class II accuracy by electric supply companv.			
	1 ✓	CSR No.6/3/4	Each	RR 3964.00 FR 5638.00	3964.00
5		Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.			
	18 ✓	CSR No.2/10/14	Each	594.00	10692.00
6		Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire.			
	5.40 ✓	CSR No.2/13/6	Mtr	204.00	1101.60
7		Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).			
	18 ✓	CSR No.2/1/1	Each	262.00	4716.00
8		Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
	1 ✓	CSR No.2/5/18	Each	21469.00	21469.00
9		Supplying and erecting LED Flood light fitting of 90-100W, including lamp, with PF > 0.95, class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2			
	1 ✓	CSR No.2/5/15	Each	9504.00	9504.00
10		Supplying and erecting LED street light fitting suitable above 26W to 36W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete as per specification No FGODF/FLS2.			
	2 ✓	CSR No.2/5/3	Each	2605.00	5210.00
11		Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No . FGODF/FLS2			
	2 ✓	CSR No.2/5/4	Each	3457.00	6914.00

12		Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	Each	667.00	2668.00
13	4 ✓	CSR No.2/9/4			
13		Supplying & erecting 10-12W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	218.00	436.00
14	2 ✓	CSR No.2/10/11			
14		Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	1268.00	2536.00
15	2 ✓	CSR No.2/12/13			
15		Supplying & erecting 22 SWG G.I sheet metal cowl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	Each	956.00	1912.00
16	2 ✓	CSR No.2/13/14			
16		Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	225.00	450.00
17	2 ✓	CSR No.1/8/20			
17		Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Each	153.00	612.00
18	4 ✓	CSR No.5/3/2			
18		Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	164.00	1312.00
19	8 ✓	CSR No.5/3/3			
19		Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	53.00	3373.45
20	63.65 ✓	CSR No.1/3/3			
20		Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW	Mtr	26.50	1686.73
21	63.65 ✓	CSR No.1/3/3, Note 3			
21		Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	433.00	16021.00
22	37 ✓	CSR No.1/9/25			
22		Extra length Point wiring in PVC trunking (casing-capping) with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Mtr	43.30	2349.03
23	54.25 ✓	CSR No.1/9/25, Note 1			
23		Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Each	3931.00	3931.00
24	1 ✓	CSR No.9/1/1			
24		Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/conduit with screws in an approved manner.	Kg	136.00	0.00
25	0.00	CSR No.9/2/5			
25		Supplying and erecting PVC trunking (PVC casing-capping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON.	Mtr	42.00	1740.90
26	41.45 ✓	CSR No.1/2/11			
26		Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected.	Each	310.00	620.00
27	2 ✓	CSR No.1/8/32			
27		Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected.	Each	211.00	422.00
28	2 ✓	CSR No.1/8/30			

Measurements are recorded in M.B no. 153 on Page No. 170 to 176.

Stash
12/01/20
Junior Engineer (Elect.)
Sant Gadge Baba Amravati University

CALCULATION

i) Total amount of work (without GST)	105162.00 ✓	
ii) GST 12% (exclusive)	(+) 12619.44 ✓	
	<u>117781.44</u>	117781.00 ✓
iii) Deductions		
a) Security deposit 2.5%		
a) Contractor previously deposited S.D Rs. 2900/- vide MR No. 256359, dt.08/07/2019	2900.00 ✓	
b) Income Tax 2%	2104.00 ✓	
c) Labour Cess 1%	1052.00 ✓	
d) State Goods & Service Tax 1%	1052.00 ✓	
e) Central Goods & Service Tax 1%	<u>1052.00</u> ✓	
	Total deductions	8160.00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)		Rs. 109621.00 ✓

(Rs. One Lac, Nine Thousand, Six Hundred, Twenty One Only.)

[Signature]
16/1/2020
Supriendent
Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

For A.S.Electricals

Contractor *[Signature]*
12/1/20

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmetically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
16/01/2020
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
3. Campus Development
(d) (i) Pavilion at Sport Sector.

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended for
Payment/Adjustment of Rs. 1,17,781/-
[Signature]
21/1/2020

First and Final Bill

Name of Work :- Renovation to the Electrical installaton of Hon'ble V.C. Bunglow at Sant Gadge Baba Amravati Univeristy Campus, Amravati.

(ii) Name of Agency. :- M/s. Shree Services, Amravati.

(iii) Work Order No. :- 32/2019, Dt. 06/08/2019

(iv) Date of Completion :- 01/10/2019

(v) Pan no. of Contractor :- ABEPP2997E

(vi) GST no. of Contractor :- 27ABEPP2997E1ZC

Sno.	Qty	Item	Unit	Rate	Amount
1		Supplying and erecting LT current transformer with bar primary 50/5 to 1000/5 ratio with 15 VA burden erected in provided CRCA box duly secured with insulating materials connected to the meter with test certificates.			
2	3 ✓	CSR No. 6/5/2 Supplying & erecting triple pole and neutral distribution board (TPNDB) with door surface/ flush mounted SPMCB of 12 ways, on iron /GI frame (horizontal busbar type) as per specification no. SW-SWR/MCBDB	Each	834.00 ✓	2502.00 ✓
3	2 ✓	CSR No.5/4/7 Supplying and erecting single pole and neutral distribution board (SPNDB) with door surface/flush mounted with 2 ways for incoming and 10 ways for outgoing SP MCB's on iron/ GI frame as per specification no. SW-SWR/MCBDB	Each	2032.00 ✓	4064.00 ✓
4	2 ✓	CSR No. 5/4/19 Supplying and erecting LT CT multifunction DLMS compliance energy meter of accuracy of class 0.5 , 3x240V,50 Hz with optical & RS 232 port, backlit LCD, measures & displays trivector energy, load survey, TOD, tamper detection & logging, power ON /OFF events, instantaneous parameters of rating 1/5 A with display in absence of power complete with zero adjustment & test certificate from manufacturer erected on provided M.S. box and connected to CTs.	Each	1270.00 ✓	2540.00 ✓
5	1 ✓	CSR No.6/3/5 Supplying & erecting CRCA sheet metal one way enclosures suitable for DP MCB /TP MCB /FP MCB erected on angle iron/GI frame complete.	Each	7733.00 ✓	7733.00 ✓
6	2 ✓	CSR No. 5/4/23 Supplying, erecting & marking SPMCB 6A to 32A, C-series (for motor/power) in provided distribution board as per specification no. SW-SWR/MCB	Each	339.00 ✓	678.00 ✓
7	20 ✓	CSR No.5/3/2 Supplying, erecting & marking SPMCB 6A to 32A, B-series (for lighting) in provided distribution board as per specification no. SWSWR/MCB	Each	153.00 ✓	3060.00 ✓
8	27 ✓	CSR No.5/3/3 Supplying erecting and marking double pole isolator only switch version of miniature circuit breaker of 40A with required wiring connections and lugs etc. in provided distribution board complete.	Each	164.00 ✓	4428.00 ✓
9	2 ✓	CSR No.5/3/20 Supplying erecting and marking four pole isolators only switch version of miniature circuit breakers of 63A in provided distribution board complete.	Each	275.00 ✓	550.00 ✓
10	2 ✓	CSR No.5/3/25 Supplying and erecting LED Street light fitting suitable for above 40W to 48W lamp, including lamp, with PF > 0.95 class IP 65 and above housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No . FGODF/FLS2.	Each	621.00 ✓	1242.00 ✓
11	22 ✓	CSR No.2/5/4 Supplying and erecting street light Wall bracket made from 40 mm. dia 'B' class G.I. pipe 1.2 m in total length complete as per specification no. FG-BKT/WB	Each	3457.00 ✓	76054.00 ✓
	15 ✓	CSR No.2/9/4	Each	667.00 ✓	10005.00 ✓

678

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Conf.

12		Supplying and erecting LED Flood light fitting of 200W, including lamp, with PF > 0.95, class IP 65 and above Housing of pressure die cast aluminium alloy and heat sink extruded aluminium complete per specification No FG-ODF/FLS-2 CSR No.2/5/18	Each	21489.00	85876.00
13	4	Supplying and erecting iron, sheet metal work consisting of CRCA sheets, various sections of iron, plates, chequered plates, rods, bars, MS pipes, etc. for panel board or any other purpose with bending, cutting, drilling and welding complete erected at the position with necessary materials duly painted with one coat of red oxide and two coats of enamel paint to match the switchgears or as per directions by the authority CSR No.6/1/19	Kg	131.00	5038.92
14	38.465	Supplying and erecting GI sheet 1.6 mm (16 SWG) to be used for fabrication of boxes panel boards etc. including cutting, bending, drilling, welding, riveting etc. and painting with one coat of red lead paint and 2 coats of enamel paint. CSR No.6/1/2	Sq.M.	2117.00	0.00
15	0	Supplying and erecting PVC Surface modular switch box with double mounting plate for 12 modules duly erected. CSR No.1/8/32	Each	310.00	1550.00
16	5	Supplying and erecting PVC Surface modular switch box with double mounting plate for 6 modules duly erected. CSR No.1/8/30	Each	211.00	1899.00
17	9	Supplying and erecting ISI mark modular type 3 pin 6 / 16A multi socket with safety shutter, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/11	Each	157.00	1884.00
18	12	Supplying and erecting ISI mark modular type switch 16A duly erected on provided plate and box with wiring connections complete. CSR No.1/8/2	Each	88.00	1056.00
19	12	Supplying and erecting ISI mark modular type 3 pin 6A multi sockets with safety shutter, duly erected on provided plate and box with wiring connections complete. CSR No.1/8/10	Each	106.00	2226.00
20	21	Supplying and erecting ISI mark modular type switch 6A / 10A duly erected on provided plate and box with wiring connections complete. CSR No.1/8/1	Each	65.00	3055.00
21	47	Supplying & erecting mains with 2x10 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/9	Mtr	170.00	2550.00
22	15	Supplying & erecting mains with 2x6 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places as per specification No: WGMA/BW CSR No.1/3/7	Mtr	102.00	622.20
23	6.1	Supplying & erecting mains with 2x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3	Mtr	FR 53.00 RR 35.00	3529.90
24	FR 42.30 RR 36.80	Supplying and erecting PVC trunking (PVC casing-napping) of size 32 mm with accessories on wall/ceiling as per specification No: WG-MA/CON. CSR No.1/2/11	Mtr	42.00	1967.70
25	46.85	Supplying & erecting mains with 1x2.5 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places. as per specification No: WGMA/BW CSR No.1/3/3, Note 3	Mtr	FR 26.50 RR 17.50	1926.60
	FR 48.40 RR 36.80				

26		Supplying & erecting mains with 1x4 sq.mm F.R copper PVC insulated wire laid in provided conduit/trunking/inside pole/Bus bars or any other places, as per specification No: WGMA/BW			
27	15 ✓	Supplying & erecting ready to use Retrofit T8 LED 18 / 20 tube light with polycarbonate body, heat sink, integrated HF electronic driver complete & compatible to T8 / T12 LED luminaire by disconnecting starter & ballast if necessary.	Mtr	36.50 ✓	547.50 ✓
28	44 ✓	Supplying & erecting decorative pre-wired box type fitting/batten suitable for 4 feet, T8 LED tube light (excluding tube light).	Each	594.00 ✓	26136.00 ✓
29	32 ✓	Supplying and erecting 'B' grade G.I. pipe / M.S. pipe down rod duly painted for fan complete erected with PVC three core flexible cable 1 sq. mm copper PVC wire	Each	262.00 ✓	8384.00 ✓
30	2.45 ✓	Supplying and erecting fan clamp of 30 x 5 mm. M.S. flat of required length and 10 mm. M.S. bolt and nuts erected with necessary hook of 10 mm. M.S. round bar and painted	Mtr	204.00 ✓	499.80 ✓
31	0	Supplying and erecting fresh air cum exhaust fan of light duty 250 V A.C. 50 cycles 300mm. 1400 RPM rust proof body & blades, wire mesh, duly erected in an approved manner.	Each	179.00	0.00
32	5 ✓	Supplying & erecting 22 SWG G.I sheet metal cawl sector shaped with 25 x 25 x 3 (mm) angle iron frame, metal mesh to avoid birds entry with necessary material, suitable for exhaust fan of 300 mm as per specification no FG-FAS/MSC	Each	1268.00 ✓	6340.00 ✓
33	0	Supplying and erecting ISI mark modular type (one module) electronic dimmer 400 / 450W, duly erected on provided plate and box with wiring connections complete.	Each	956.00	0.00
34	1 ✓	Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Each	225.00 ✓	225.00 ✓
35	19 ✓	Extra length Point wiring in ISI mark HMS PVC conduit with 1.5 sq.mm (2+1E) FR grade copper wire, modular type switch, earthing and required accessories as per specification No: WG-PW/SW	Point	613.00 ✓	11647.00 ✓
36	32.20 ✓	Supplying and erecting ding dong / electronic musical type call bell with heavy duty coil suitable to operate on 230V A.C. supply erected on polished double wooden block/sunmica block of suitable size	Mtr	61.30 ✓	1973.86 ✓
37	0	Supplying and erecting ISI mark modular type bell-push 6A / 10A duly erected on provided plate and box with wiring connections complete.	Each	123.00	0.00
38	0	Supplying and erecting LED flexible strip light 5m length upto 75W conforming IP 65 of any colour with driver complete.	Each	95.00	0.00
39	0	Supplying and erecting decorative oval bulk head edge-lit 10W LED luminaire comprising of high brightness LED Fitting on provided PVC block / wooden board.	Each	920.00	0.00
40	2 ✓	Supplying Integrated LED emergency type rechargeable table lamp of 4.5W with battery of 2000 mAh capacity with continues backup of 3hrs including with charging cord suitable for 230V AC power supply.	Each	1351.00 ✓	2702.00 ✓
	0		Each	1252.00 ✓	0.00

2,86,492

41		Supplying and erecting moon type decorative wall/ceiling mounted fixture including LED upto 12W circular/square type with opaque diffuser and electronic driver including bracket complete.			
42	2 ✓	CSR No.2/2/6 Supplying & erecting integral post top lantern fixtures (light house type) suitable upto LED 18 W Lamp consisting of combination of spun aluminium canopy & clear acrylic top cover, cast aluminium pole cap on provided pole/ bracket as per specification no. FG-ODE/PTL (NEW)	Each	1651.00 ✓	3302.00 ✓
43	2 ✓	CSR No.2/6/5 Supplying and erecting square shaped CRCA /die-cast aluminium powder coated housing LED panel light (slim edge-lit) suitable for 9 W - 12 W with provision for plane front frame with translucent cover fixed to the housing complete.	Each	1766.00 ✓	3532.00 ✓
44	17 ✓	CSR No.2/1/7 Supplying and erecting square / round shaped CRCA /die-cast aluminium powder coated housing LED panel (slim edge-lit) light suitable for 13W to18W with provision for plane front frame with translucent cover fixed to the housing complete	Each	761.00 ✓	12937.00 ✓
45	9 ✓	CSR No.2/1/8 Supplying and erecting ISI mark midget type 3.0 Ltr instant type water heater of ABS plastic body 3 kW, heating element 230/250 Volts 50 cycle AC supply with inlet and outlet, thermostatic control and thermal cutoff with 3 core PVC flexible wire leads complete duly tested and marking sr. no. and date of erection.	Each	927.00 ✓	8343.00 ✓
46	1 ✓	CSR No.3/1/8 Supplying & erecting 5W-7W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	3617.00 ✓	3617.00 ✓
47	2 ✓	CSR No.2/10/10 Supplying & erecting 18W, 230V integral type LED Lamp suitable for B-22/E-27 base.	Each	134.00 ✓	268.00 ✓
48	4 ✓	CSR No.2/10/13 Supplying & erecting 20W LED PAR (30 Lamp E-27 Base, SPOTO series) lights by making necessary arrangement/recess in wall to make it flush with surface	Each	369.00 ✓	1476.00 ✓
49	0	CSR No.2/5/22 Supplying, erecting & terminating XLPE armoured cable 3½ core 95 sq. mm. aluminium conductor with continuous 8.35 sq. mm. (10 SWG) G.I. earth wire complete erected with glands & lugs, on wall/ trusses/pole or laid in provided trench/ pipe as per specification no. CB-LT/AL	Each	2699.00 ✓	0.00
50	190 ✓	CSR No.7/1/19 Supplying and laying (including excavation of suitable width & depth up to 90 cm) 90 mm outside dia. double wall corrugated pipes (DWC) of HDPE for enclosing cable below ground/road surface, to required depth complete	Mtr	514.00 ✓	97660.00 ✓
51	179.60 ✓	CSR No.7/6/11 Providing earthing with galvanized iron earth plate size 60 x 60 x 0.6 cm complete with all materials, testing & recording the results as per specification no. EA-EP	Mtr	301.00 ✓	54059.60 ✓
52	1 ✓	CSR No.9/1/1 Supplying and erecting GI earth wire of high purity of different sizes used for earthing or any other purposes on wall with necessary G. I. Clamps fixed on wall/cable/ conduit with screws in an approved manner.	Each	3931.00 ✓	3931.00 ✓
53	0	CSR No.9/2/5 Dismantling of existing fluorescent fittings of any type & size.	Kg	136.00	0.00
54	22 ✓	CSR No.2/14/1 Dismantling the existing W.T. fluorescent fitting/ S.V./ M.V. / M.H. lamp /LED fitting from pole with brackets complete.	Each	13.00 ✓	286.00 ✓
	16 ✓	CSR No.2/14/3	Each	92.00 ✓	1472.00 ✓

ST/F no/167/or/185/03/04/100R

55		Dismantling the existing ceiling fan /exhaust fan / cabin fan / bracket fan complete with accessories, G.I. down rod, frame etc. and making the site clear. CSR No.2/14/4			
56	20 ✓	Dismantling the existing light, fan, bell, clock, independent plug point, wiring including circuit mains of all types along with accessories etc. complete as per specification No: WG-DM/PW CSR No.1/15/1	Each	31.00 ✓	620.00 ✓
57	18 ✓	Providing & erecting floor / wall mounting, MCCB panel board with door suitable for three pole incoming 250A, 4 ways three pole outgoing up to 100A MCCB on iron frame in compliance of IEC 61439, as per specification no SW-SWR/MCCBPB. (Excluding MCCB'S) CSR No.5/7/18	Point	7.00 ✓	126.00 ✓
58	1 ✓	Providing & erecting incoming and outgoing cable alleys suitable for MCCB panel board with door of 250A incoming and 4 way outgoing or 400A incoming and 2 way outgoing made from CRCA sheet 1.6 mm thick duly powder coated and having vertical insulated partition for shielding between the shared face of cableway and DB complete. CSR No.5/7/12	Each	33816.00 ✓	33816.00 ✓
59	1 ✓	Providing & erecting 3 Pole MCCB of 200A,415V capacity with short circuit rating 25 kA (Ics=100% of Icu) adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/2	Each	13398.00 ✓	13398.00 ✓
60	1 ✓	Providing & erecting 3 Pole MCCB upto 100A, 415V, with short circuit rating 25 kA (Ics=100% of Icu),adjustable thermal (overload) setting and fixed magnetic setting with provided leads, provision for installation of shunt/ UV/ trip alarm contact and MCCB should have phase barriers both sides, in provided enclosure on iron /GI frame as per specification no. SW-SWR/MCCB CSR No.5/5/1	Each	9009.00 ✓	9009.00 ✓
61	4 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 250A MCCB complete. (set of 6) CSR No.5/11/2	Each	4507.00 ✓	18028.00 ✓
62	1 ✓	Supplying and erecting terminal spreaders for use on MCCB incoming and outgoing terminals for 3 pole upto 100A MCCB complete. (set of 6). CSR No.5/11/1	Each	799.00 ✓	799.00 ✓
63	4 ✓	Supplying and erecting ISI mark GI pipe 65 mm. dia. 'B' class at position with accessories complete. Specification no. CW-PLB/GP. CSR No.16/5/7	Each	169.00 ✓	676.00 ✓
64	0	Supplying & laying (including excavation) 25 cm dia RCC Hume pipe of standard thickness at required depth up to 90 cms. below road / ground surface, for covering provided cable & necessary back filling with light ramming to make the road/ground surface as it was (Except bitumen carpet). CSR No.7/6/7	Mtr	805.00	0.00
65	6 ✓	Supplying & erecting LED type indicating pilot lamp with LED colours red / yellow / green, 230 / 250V on provided box / panel with necessary material, wiring & connections etc. CSR No.6/5/6	Mtr	619.00 ✓	3714.00 ✓
66	3 ✓	Supplying and erecting panel mounting type digital voltmeter having three and half digit LED display, calibrated for 0 to 750V AC suitable to operate on 500V AC supply with necessary PVC wire leads and lugs and mounting hardware on provided panel complete with calibration certificate from manufacturer. CSR No.6/3/8	Each	172.00 ✓	516.00 ✓
	1 ✓		Each	1223.00 ✓	1223.00 ✓

34

59730

Measurements are recorded in M.B no. 183 on Page No. 21 to 34.

CALCULATION

i) Total amount of work (without GST)		474525 00 ✓	
ii) GST 12% (exclusive)		(+) 56943.00 ✓	
iii) Deductions		531468 00	531468.00 ✓
a) Security deposit 2.5%			
Contractor previously deposited S.D Rs. 15,400/-			
vide MR No. 261130, dt.26/07/2019 ✓	15400.00 ✓		
b) Income Tax 2%	9491.00 ✓		
c) Labour Cess 1%	4745.00 ✓		
d) State Goods & Service Tax 1%	4746.00 ✓		
e) Central Goods & Service Tax 1%	4746.00 ✓		
Total deductions	39128.00 ✓		39128 00 ✓
iv) Net payment to Contractor (i) & (ii) - (iii)			Rs. 492340.00 ✓

(Rs. Four Lacs, Ninty Two Thousand, Three Hundred, Forty Only.)

[Signature]
4/7/20
Junior Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]
Supriendent
Engineering Section
Sant Gadge Baba Amravati University

I agree to above payment & deductions.

SHREE SERVICES
[Signature] 7/7/2020
Proprietor
Contractor

CERTIFICATE

Certified that the work is carried out as per items specifications & quality of executed work is good. Measurements & Materials are checked & found correct. The bill is arithmatically & technically checked & found correct. Hence, the bill is fit for payment.

[Signature]
23.07.2020
University Deputy Engineer (Elect.)
Sant Gadge Baba Amravati University

[Signature]
24/07/2020
Executive Engineer
Sant Gadge Baba Amravati University

ALLOCATION

Rusa Scheme
(g) Renovation to the Hon'ble V.C Residence premises.

[Signature]
Executive Engineer
Sant Gadge Baba Amravati University

Audited & Recommended for
Payment/Adjustment of Rs. 531,468/-
[Signature] 20/8/2020