



श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
(विश्वविद्यालयानुदानयोगस्य १९५६ विधे: तृतीयविधिमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

**SRI CHANDRASEKHARENDRASARASWATHI VISWA MAHAVIDYALAYA
(SCSMV)**

(Deemed to be University u/s 3 of the UGC Act 1956)
(Accredited with 'A' Grade by NAAC)
Enathur, Kanchipuram - 631 561.



ELECTRICAL MAINTENANCE DIVISION

MINUTES OF DEPARTMENTAL MEETING ON RESTRUCTURING OF POWER DISTRIBUTION SYSTEM IN UNIVERSITY

ENERGY AUDIT 2019-20

Energy Consumption and Utilization

Load/Building	Vidhya Vihar	Mechanical	ECE	MCA	S & H	Library	Annapoorani	Visalakshi	Vedal+Staff Quarters	Kamakshi	Total Equipment	Waitage/Equipment	Total Wattage(KW)
Lights													
Flourescent (40W)	339	480	173	270	172	457	328	293	346	190	3048	40	121.92
Flourescent (60W)						80					80	60	4.8
C.F.L						178				32	210	20	4.2
Bulb (100W)									9		29	100	2.9
Bulb (15W)									125	48	173	15	2.595
Sodium Vapour		1				6	5	5		3	20	250	5
Metal Halide						4				3	7	500	3.5
Fans													0
Ceiling	167	339	194	156	109	195	248	230	354	124	2116	60	126.96
Pedestial			1	11							12	60	0.72
Exhaust						13	14	6	7	2	42	100	4.2
Computer	269	75	81	84	4	30	14	1	2		560	750	420
Printer				7 (350W)	4 (40W)	2 (40W)					13	250	3.25
Xerox						3	2				5	750	3.75
A/C	36		3	8		7	4	1	14		73	1000	73



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Socket			285			30	186	214			715	100	71.5
T.V.			1					1	3		5	150	0.75
Audio Speakers			36 (100W)	4 (200W)		10 (40W)		1		1 (100W)	52	100	5.2
												Total Load	854.245

ELECTRICAL LOAD DETAILS

EXISTING UNIVERSITY LOAD

S.NO	BUILDING	SJP	Vidya Vihar	Mechanical	CSE	Sanskrit	Commerce	Civil	Library	B.ED	Medical canter	STP	staff quarters	TOTAL LOAD(KW)
1	LIGHTING LOAD	60	24	40	47	15	14	9	107	8	2	3	20	349
2	POWER LOAD	90	315	185	69	20	4	15	39	2.	5	70	30	844
	TOTAL LOAD	150	339	225	116	35	18	24	146	10	7	73	50	1193

EXISTING HOSTEL LOAD

S.NO	BUILDING	Annapoorni	Visalakshi	Kamakshi	Meenakshi	GHADIKASTANAM	Saraswathi	TOTAL LOAD (KW)
1	LIGHTING LOAD	31	50	39	70	40	42.	272.
2	POWER LOAD	3	28	5	5	7	7	55
	TOTAL LOAD	34	78	44	75	47	49	327

EXISTING TOTAL LOAD

S.NO	BULIDING	UNIVERSITY	HOSTEL	TOTAL LOAD (KW)
1	LIGHTING LOAD	349	272	621
2	POWER LOAD	844	55	899
	TOTAL LOAD	1193	327	1520



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ELECTRICAL MAINTENANCE DIVISION

MINUTES OF DEPARTMENTAL MEETING ON RESTRUCTURING OF POWER DISTRIBUTION SYSTEM IN UNIVERSITY

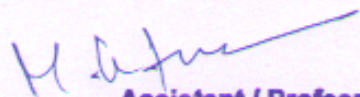
Preamble:

In continuation with the infrastructure development that is under progress in the University the power load in all the wings (academic block, hostel, library, playground and gym) has increased from 1750 KVA to 3225 KVA. The present power system is nearly 25 years old, and for meeting the increased demand the present system (transformer, generator, cable, and panels) will not be sufficient and the power system infrastructure has to be increased. Considering the present future load and the shortcomings in the existing system it's very essential to restructure the university distribution system from the feeding end to the far end. In this regard the university electrical maintenance team and university electrical EA grade consultant HITECH INFRAS PVT .LTD conducted the field study for restructuring the distribution system.

Scope:

The scope of restructuring of distribution system includes

1. Construction of new power house nearer to the old power house.
2. Estimation of total load and developing SLD diagram for restructured distribution system.
3. Procurement, installation and commissioning of two 1600 KVA transformer for meeting their demand.
4. Procurement, installation and commissioning of two 750 KVA generator along with auto synchronising panel for providing the backup power supply.
5. Procurement, installation and commissioning of MV panels, MLDBs and APFC in the power house.


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Consolidated Cable Details

Sl.No	Description	UOM	Qty	Round off
1	3 1/2 Core 300 Sq.MM Al.Ar. XLPE Cable	Mtr	6085	6000
2	3 1/2 Core 240 Sq.MM Al.Ar. XLPE Cable	Mtr	1761	2000
3	3 1/2 Core 185 Sq.MM Al.Ar. XLPE Cable	Mtr	559	750
4	3 1/2 Core 120 Sq.MM Al.Ar. XLPE Cable	Mtr	2649	3000
5	3 1/2 Core 50 Sq.MM Al.Ar. XLPE Cable	Mtr	2844	3000
6	3 1/2 Core 50 Sq.MM Al.Ar. XLPE Cable	Mtr	319	500
7	3 1/2 Core 25 Sq.MM Al.Ar. XLPE Cable	Mtr	1447	2000
8	3 1/2 Core 16 Sq.MM Al.Ar. XLPE Cable	Mtr	2107	2500


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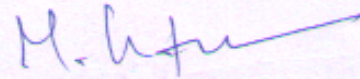
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SLDB Details:

S.NO	LOCATION	PCC PANEL	CONNECTED BLOCK
1	Between Sanskrit and vidya-vihar block	SLDB-1	1.IT BLOCK 2.CIVIL BLOCK 3.CIVIL BLOCK 4.VIDYA VIHAR BLOCK
2	library	SLDB-2	1.LIBRARY-GROUND FLOOR 2.LIBRARY- FIRST FLOOR 3.LIBRARY-SECOND FLOOR
3	First year block	SLDB-3	1.MECHANICAL BLOCK 2.FIRST YEAR BLOCK 3.PLAY GROND
4	Kamakshi hostel compound area	SLDB-4	1.SJP BLOCK 2.QUARTES BLOCK 3.BED BLOCK 4.MEDICAL CENTRE 5. SCH ,KAMATCHIHOSTEL LSB 6.SARASWTHIHOSTEL COMMHAL L-LSB
5	Power house	SLDB-5	1.POWER HOUSE-LSB 2.WORKSHOP 3.STREET LIGHT
6	Vishalakshi hostel	SLDB-6	1.VISHALAKSHI HOSTEL-LSB 2.MEENAKSHI HOSTEL-LSB 3.ANNAPOORANI HOSTEL-LSB 4.GHADIGASTHANAM-HOSTEL.-LSB


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PCC Details:

S.NO	LOCATION	PCC PANEL	CONNECTED BLOCK
1	Between Sanskrit and vidya-vihar block	PCC-1	1.IT BLOCK 2.CIVIL BLOCK 3.CIVIL BLOCK 4.VIDYA VIHAR BLOCK
2	Library ground floor	PCC-2	1.LIBRARY-GROUND FLOOR
3	First year block	PCC-3	1.MECHANICAL BLOCK 2.FIRST YEAR BLOCK 3.PLAY GROND
4	Kamakshi hostel compound area	PCC-4	1.SJP BLOCK 2.QUARTES BLOCK 3.BED BLOCK 4.MEDICAL CENTRE 5.KAMATCHI HOSTEL BLOCK 6.SARASWTHIHOSTEL AND KITCHEN
5	Power house	PCC-5	1.POWER HOUSE-PDB 2.WORKSHOP 3.GYM 4.STP- PDB
6	Vishalakshi hostel	PCC-6	1.VISHALAKSHI HOSTEL 2.MEENAKSHI HOSTEL 3.ANNAPOORANI HOSTEL 4.GHADIGASTHANAM HOSTEL. 5.SCH&COMMON HALL
7	Library ground floor	PCC-7	1.LIBRARY-GROUND FLOOR
8	Library ground floor	PCC-8	1.LIBRARY-GROUND FLOOR


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		all the accessories (Lighting arsesterm down conductor, Earth Pit , Ladder, Landing plat form, Emission checking Point provision to ensure consistant compliance of all statutory norms including the foundation of satack and adequate stay support arrangement		
		the relevant statutory norms. (Vendor shall design the stack and		
		estimate the steel quantity).	1	No.
		Thermal Insulation for above M.S. Exhaust Pipe of 50mm Thick mineral	1	Lot
		Wool, Chicken Mesh and Aluminium Cladding	40	Mtrs.
		Thermal Insulation for Residential Silencers	1	Set
		Aviation Lamp using LED Light and lader provision to attend Aviation		
		Lamp maintenance		
4	Power Cable			
		3 1/2 Core 300 Sq.MM 1.1 KV Al armoured XLPE Cable	200	Mtr
		Supply and installation of End terminal for 3 1/2 Core 300 Sq.MM 1.1 KV Al armoured XLPE Cable	16	No.
5		Control Cable	1	Lot
6		Automatic diesel filling with Level controller for Diesel Day tank and diesel flow meter and totaliser at the inlet line of Diesel Day tank		
7	Earthing			
		80 mm dia 3M long , Jindal C Class GI Pipe earth electrode as per		
		specification including construction of RCC pit, cover etc., as per IS: 3043		
		(for Neutral) (Cover for earthpit shall be suitable to take 50 Tons weight)	10	Nos.
		75 x 10mm Cu. Flat (DG Neutral)	60	Mtrs.
		50 x 6mm GI Flat (DG Body Earthing)	200	Mtrs.
8		Any other item required for the installation (Vendor to enclose the list)	1	LS
9.		Testing and commissioning of Protection relays	1	LS


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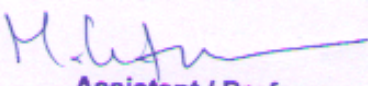
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Transformer Details:

SL. NO.	DESCRIPTION	QTY	UNIT
Supply, Installation, Testing and Commissioning of the following			
1	DG Set		
	750 KVA, 0.433 KV DG Set with Acoustic enclosure with Day Tank, Silencer, Starting		
	Batteries, AVM Pads, Local Isolation 1600 A ,65 KA, 4Pole ACB Panel with all the Geerator protection, battery charger mounted inside the		
	acoustic enclosure including interconnecting control cabling and fuel lines		
	within enclosure and bus duct from Alternator to Local control panel and	2	Set
	Cable outgoing provision from Local panel to Sync panel		
2	Synchronization Panel	1	Set
	DG Sync Panel two No of 1600 Amps, 4 Pole ACB with micro logic 6.0 E Release		
	MDO Type, Schneifer Make and 2500 Amps 4 pole ACB with micro logic 6.0 E Release		
	EDO type with automatic starting and change over during power failure and		
	manual change over during power resumption		
	Sync Panel shall consists of OC, SC, EF , Diff and reverse power protection		
	Auto and Local Sychronisation system to Sync dg Set in Both Auto and manual		
	Bus Bar Material : Copper, Bus Bar Current rating 2500 Amps, 65 KA		
3	Exhaust System Suitable for 750KVA DG Set – 2Nos.		
	Suitable MS 'B' Class Exhaust Pipe Inclusive of all necessary accessories like Bends, Flanges, Gaskets.	40	Mtrs.
	Expansion Bellows with matching flange for the above	1	No.
	Stack suitable for 2No. 750KVA DG Set with 30Mtrs. Height with		


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- | | |
|--------------------------|--------------------------------|
| i) HV KV peak | : 75 |
| b) Power frequency | |
| i) HV KV rms | : 28 |
| ii) LV KV rms | : 3 |
| 15. Winding Material | |
| a) HV | : Copper |
| b) LV | : Copper |
| 16. Neutral Bushing CT | |
| a. Ratio | : 2500/5 A |
| b. Accuracy Class | : PS |
| 17. Neutral Grounding CT | |
| a. Ration | : 400/5 A |
| b. Accuracy class | : PS |
| 18. Transformer Loss | : Low Loss as Per IEC Standard |

Accessories –

1. Winding temperature relay for Alarm and trip
2. Cable disconnecting chamber at 11 KV Side and Bus connecting chamber at 433 Volt Side
3. Marshalling box
4. Local Control panel and RTCC panel for OLTC
5. The under-carriage of the transformer shall be provided with four cast iron rollers. The wheels shall be mounted on plain axle. Rollers shall be bi-directional.
6. Two earthing terminal with two earth symbol.
7. Rating and terminal marking plate.
8. Door interlock limit switch for all the doors.
9. Lifting lugs for the complete transformer as well as for core and winding assembly.
10. LV Side neutral grounding strip
11. Jacking pad


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Generator Details:

11/0.433 KV, 1600 KVA, Dry Type Distribution Transformer with OLTC, vector Group:
Dyn11.

Specific Requirements:

- | | |
|--|--|
| 1. Service | : Indoor |
| 2. Type | : Dry Type |
| 3. Rating | : 1600KVA |
| 4. Rated frequency | : 50Hz |
| 5. Number of phase | : Three Phase |
| 6. Rated Voltage | |
| a) HV winding | : 11KV |
| b) LV winding | : 0.433 KV |
| 7. Vector group | : Dyn11 |
| 8. Type of cooling | : AN |
| 9. Tapping | |
| a) Range | : +5 % to -15 % |
| b) Variation per step | : 1.5% |
| c) No. of Positions | : 17 |
| d) Tapping provided on HV side | : YES |
| 10. Tap changer | : ON CIRCUIT |
| 11. Impedance voltage at 75° C | |
| a) At principal tapping | : 5% |
| 12. Temperature rise above 50° C ambient | |
| a) Winding by resistance | : 40 °C |
| 13. Terminals | |
| a) HV side | : Cable box with disconnecting chamber |
| b) LV side | : Bus duct Flange |
| 14. Insulation level | |
| a) Impulse | |

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6. Procurement, installation and commissioning of PCC (POWER CONTROL CENTRE) panel in the eight selected location
7. Procurement, installation and commissioning of SLDB (SECONDARY LIGHTING DISTRIBUTION BOARD) panel in the six locations
8. Procurement and installation of new DP structure
9. Finding the optimized cable route
10. Procurement and laying of HT power cable from DP structure to MV panel.
11. Procurement and laying of LT power cable from MV panel to 8 PCC panel
12. Procurement and laying of LT lighting cable from MLDB panel to 6 SLDB panel

Objectives:

The objective of restructuring the university distribution system is as follows:

1. To meet out the present and future power demand for next 25years.
2. With the sufficient backup power supply to provide the uninterrupted power supply.
3. To minimise the voltage drop and provide the load canter with the required voltage level in all the blocks of the university.
4. To minimise the fault level and frequency of fault by increasing the protective system in all the points of distribution system
5. To select the appropriate cable size for meeting the corresponding load current demand and voltage level.
6. To provide the State of the art automatic control and protection system in equipments and panels.


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7. To provide the efficient monitoring distributions system in all the points of distribution system.

TECHNICAL SPECIFICATION:

Load Details:

SCSVMV - LOAD DETAILS														
Sl No	Load Centre	Existing Load				Additional Load			Existing+ Additional Loads					
		LTG LOAD	POWER LOAD	UPS	TOTAL	LTG LOAD	POWER LOAD	UPS LOADS	TOTAL LOADS	LTG LOAD	POWER LOAD	UPS LOADS	20% Spare Capacity	TOTAL LOADS
1	LIBRARY BUILDING	20	35	30	85		380		580	20	415	30	80	554
2	MECHANICAL BLOCK	20	77	70	267				0	20	77	70	26	196
3	FIRST YEAR BLOCK	5	10	15	30				0	5	10	15	2	37
4	CIVIL BLOCK	15	25	20	58				0	15	25	20	9	67
5	SANSKRIT BLOCK	17	60	72	149				0	17	60	72	26	175
6	IT BLOCK	20	60	135	215				0	20	60	135	39	254
7	VIDHYA VIHAR BLOCK	30	30	10	70				0	30	30	10	8	78
7A	ELECTRICAL LAB - VV BLOCK		30		30				0	0	30		29	112
8	SUB STATION - PANEL ROOM	2	10		12				0	2	10		2	34
9	THERMAL LAB	3	15		18				0	3	15		3	21
10	BASIC MACHINE SHOP	3	20		23				0	3	20		4	27
11	FLUID LAB	3	15		18				0	3	15		3	21
12	LATHE WORK SHOP	3	20		23				0	3	20		4	27
13	NEW GYM & STATIONARY SHOP		23		23				0	0	23		5	28
14	PLAY GROUND	30			30				0	30			0	30
15	SIP BLOCK	58	286	120	464				0	58	286	120	81	545
16	B.ED BLOCK	5		10	15				0	5		10	2	17
17	MEDICAL CENTER	3		7.5	10.5				0	3		7.5	3	12
18	SEWAGE TREATMENT PLANT	1	50		51				0	1	50		10	61
19	STREET LIGHT	5			5				0	5			0	5
	Hostel				0				0				0	0
20	STUDENT COMMUNITY HALL - DINING HALL WOMENS	10			10					10			0	10
21	SARASWATHI HOSTEL -				15				57				11	83
21A	SARASWATHI HOSTEL - GF COOKING AREA				0	6			125				25	156
22	KAMATCHI HOSTEL	10			10				55				11	76
23	COMMON HALL INSIDE WOMENS HOSTEL	5			5				10				2	17
24	ANNAPOORNI HOSTEL	25			25				90				16	135
25	VISHALAKSHI HOSTEL	20			20				116				23	159
26	MIDHAKSHI HOSTEL	20			20				147				29	196
27	SATKASTANAM HOSTEL	15			15				34				7	56
28	QUARTERS - S HOUSE	5	60		65				0	5	60		12	77
	Total	368	387	474.5	1729.5		1054		1020	374	1902	474.5	475	3225

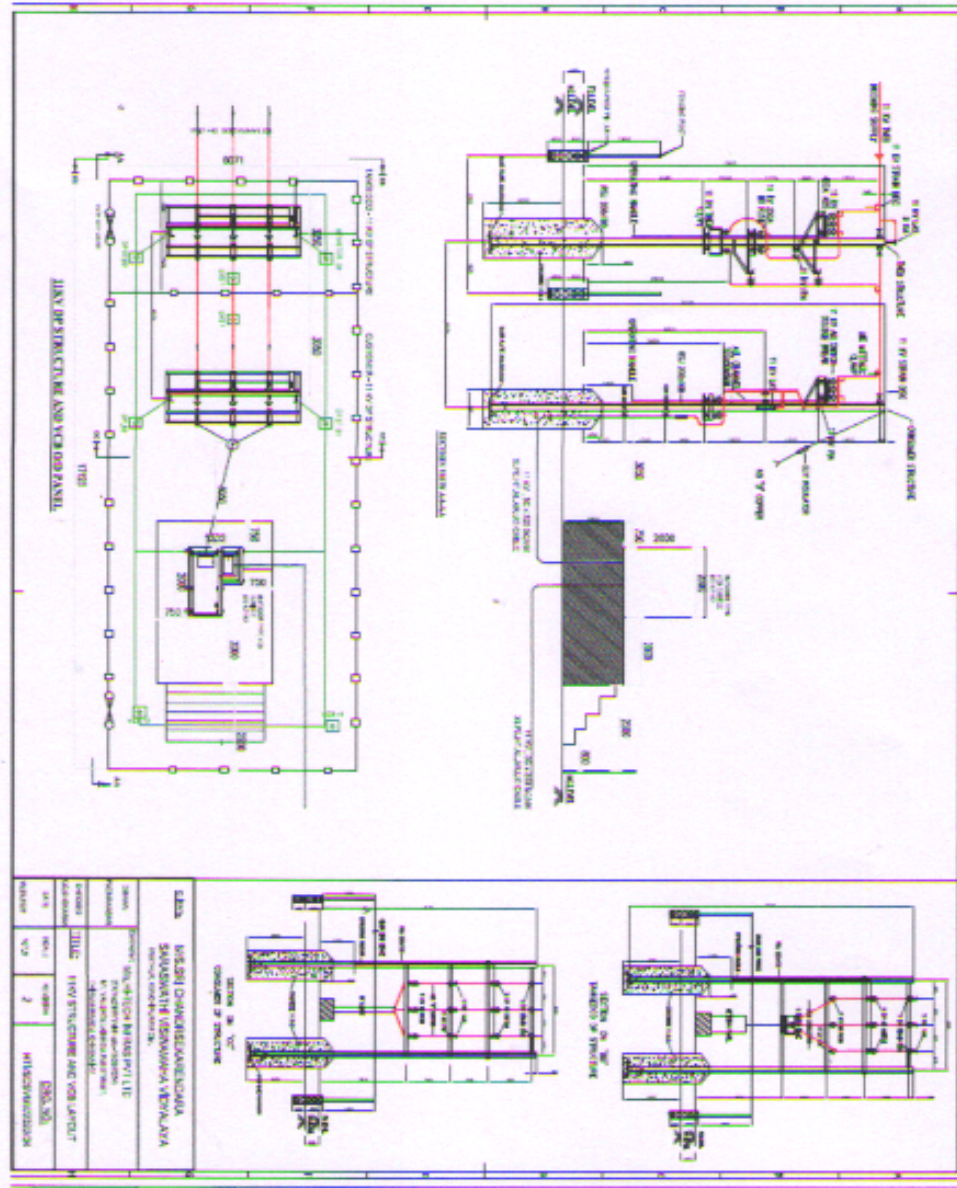
M. Arun
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श्रीचन्द्रशेखरेन्द्रसरस्वतीविश्वमहाविद्यालयः
 (विश्वविद्यालयानुदानयोगस्य १९५६ विधेः कृतीयाधिकारमनुसृत्य मानितविश्वविद्यालयत्वेन प्रकटीकृतः)

SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA
(SCSVMV)

(Deemed to be University u/s 3 of the UGC Act 1956)
 (Accredited with 'A' Grade by NAAC)
 Enathur, Kanchipuram - 631 561.



<p>DESIGN SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA KANCHIPURAM</p>	
<p>PROJECT TITLE TITANIUM ENGINE BEARING AND CRANKSHAFT</p>	<p>DATE 2023</p>
<p>DESIGNER SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA</p>	<p>REVISIONS 1. 01. 2023</p>
<p>DATE 2023</p>	<p>SCALE 1:1</p>

Certificate

ENERGY SAFETY AUDIT

Academic Year 2021-2022



This is to certify that

SRI CHANDRASEKHARENDRA SARASWATHI VISWA

MAHAVIDYALAYA

Enathur, Kanchipuram

has achieved the energy standards for the learning spaces with least impact on environment during the Energy Safety Audit 2021



B. Ganeshkaran
Mr. K. Ganeshkaran
Hi-Tech Infra Pvt. Ltd

EA License No. EA 2899

Valid upto 13.03.2024



M. Rathinakumar
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