PUBLIC WORKS DEPARTMENT

DEPARTMENTAL EXAMINATION OF OVERSEER (ELECTRICAL ENGINEER) UNDER P.W.D., 2024

ENGINEERING PAPER

(100 MARKS)

Signature of Invigilator _____

CODE NO.

(For Official use)

Subject	Marks carried by each question	No. of correct answers	Marks
Detail Study of Internal Electrification System used in PWD	1		
Maintenance - Fault Diagnosis	1		
Generator Set and Transformers	1		
Electrical Measuring Instruments	1		
AirConditioni ng and Refrigeration	1		
Lift/Elevator Estimating and Costing	10		

Signature	of Examiner	
_		

Signature of Scrutiniser

PUBLIC WORKS DEPARTMENT

DEPARTMENTAL EXAMINATION OF OVERSEER (ELECTRICAL ENGINEER) UNDER P.W.D., 2024

ENGINEERING PAPER

(100 MARKS)

Roll No.

Signature of Candidate

Signature of Invigilator

CODE NO.

(For Official use)

PUBLIC WORKS DEPARTMENT DEPARTMENTAL EXAMINATION OF OVERSEER (ELECTRICAL ENGINEER), 2024

Engineering Paper

Tin	ne allowed : 3 hours	Full Marks: 10 Pass Marks: 40	
	Section - A		
I.	Choose the correct answer (Each question carries 1 mark) (Put a tick mark (✓) against the correct answer in the bracket ()		
1)	The Inverse Square laws of illuminations (where E is illuminance, I is the given direction and d is the distance between the source and plane.) are at (a) $E = I/d^2$ (b) $D = E^2/I$ (d) $I = D^2/E$ (d) None of the above	as follow (y in a))
2)	The illumination level required for each room of the building is calculate {where Illumination level (IL)is Room size (RS) X Depreciation factor ($(LM)/Utilization factor (UF)$ } (a) IL= (RS x SL x DF)/UF () (b) IL= (RS x SL x C) IL=(SL x DF x UF)/RS () (d) IL= RS x SL x ID (e) None of the above	DF) X Standard lur UF)/DF (
3)	The lumens level (lumens /meter) required for a reading room is (a) 200 () (b) 250 (c) 300 () (d) 350 (e) None of the above	()
4)	The lumens levels is effected by the followings (a) Temperatures of the room () (b) Thickness of wa (c) Materials used in slab/roof/wall () (d) Colours of the ro (f) None of the above	•)
5)	The foundation of Electrical Engineer works in Lighting is depended upon (a) Size of the Copper wire () (b) Main switches (c) L.T Panel Board () (d) Illumination level (f) None of the above	()
6)	In normal working condition, the depreciation factor value will be: - (a) 1.2 (b) 1.0 (c) 0.8 (l) (d) 0.7 (e) 0.6 (l) None of the above	((re ())
7)	In a normal working conditions, The utilization factor value will be:- (a) 1.2 (b) 1.0 (c) 0.8 (d) 0.7 (e) None of the above	()

8)	Double height of the building roo (a) Utilization factor(c) Lighting position(e) None of the above	m Ceiling wil () () ()	l affect in: - (b) Depreciation factor (d) Colour of the room	()
9)	The illumination levels are measu (a) Multi-meter	ared by the use	ed of: (b) Voltmeter	(`
	(c) Ammeter (e) None of the above	()	(d) Lux meter	()
10)	The efficiency of Electrical lumin	naires is measu	nred in: -		
	(a) Lux/Meter(c) Lux/weight(e) None of the above	() () ()	(b) Lux/Watts(d) Lux/colour	()
11)	Electrical Plan drawing used to be	e drawn on the	e Architectural drawing of		
	(a) Detailed Drawing(c) Plan drawing(e) None of the above	() () ()	(b) Side elevation drawing(d) Not base on Architectural dr	rawing ()
12)	In Electrical Plan drawing the following	lowing is incl	uded the following locations:		
	(a) Switch board(c) Main switch/LT Panel(e) All of the above	() () ()	(b) Lighting/luminaires(d) MCB DB/DB	()
13)	In Electrical plan drawings the lun (a) Near ceiling Fan where the blanch (b) Above ceiling Fan where the lun (c) In the corner of the room(where	ade abstracts t blade abstract	the light s the light	()
	(d) In the center of the room or w distributed in the room(e) None of the above	here the effici	ency of light utilized in the room or e	evenly (()
14)	2	rireman must l	nave a skilled to write and read the fo	llowing	
	drawings: (a) Electrical Plan drawing(c) Architect Plan drawing(e) All of the above	() () ()	(b) Electrical Circuit Diagram(d) Power flow diagram	()
15)	Electrical Circuit diagram are alw (a) Single line diagram (SLD) (c) Three-Dimensional drawing (f) None of the above	vays drawn in:	(b) Two-dimensional drawing (e) Simple plan drawing	()
1.6					
16)	(a) Chemical Earthing(c) G.I Plate Earthing(e) None of the above	() () ()	d result in hilly areas like Mizoram:- (b) Copper Plate Earthing (d) G.I Pipe Earthing	()
17)	What type of Earthing which does (a) Chemical Earthing (c) G.I Plate Earthing (e) None of the above	s not required () ()	maintenance like watering etc. (b) Copper Plate Earthing (d) G.I Pipe Earthing	()

18)	• • •	•	lized with good result in hilly areas lik	e Mizoram	
	(a) Early Seamer Electrode (ESE)(b) Copper five finger system(c) Copper one finger system) Lightr	ng arrestor	())
	(d) Steel/Aluminum five finger sy(e) None of the above	stem		())
19)	Lightning arrestor depend upon;		(1) (2)	()	
	(a) Good Earthing	((b) Strong structure	())
	(c) Location of the building(e) None of the above	((d) Elevation of the building	s ())
20)	Electrical Shock will be prevented	d by:			
	(a) Good Earthing of the system	((b) Size of the wire	())
	(d) L.T Panel ways	((e) Load of the building	())
	(f) None of the above	(
21)	Surge current will be prevented by	y	(h) Main awitah	()	`
	(a) MCB (c) DB	((b) Main switch (d) MCCB	()) \
	(e) None of the above	((u) MCCD	()	,
22)	Surge Voltage will be prevented b	y:			
	(a) MCB	((b) MCCB	())
	(c) ELCB	((d) RCCB	())
	(e) Voltage regulator/over/under v	oltage	nd overload protector	())
	(f) None of the above	(
23)	Life span of conceal wiring is about 100	out: -	4 > 200		
	(a) 100 years	((b) 200 years)
	(c) 50 years(e) None of the above	((d) 25 years)
24)	Casing Capping wiring is surface				
	(a) Permanent type of wiring)(b) Permanent but temporary by nat	ure ())
	(c) Temporary but Permanent by I	Nature	(d) Temporary type of wiring	())
	(e) None of the above)		
25)	The best material for conceal wiri			()	
	(a) UPVC Conduit pipe	((b) Heavy Duty PVC Pipe	())
	(c) Medium Duty PVC pipe(e) G.I Conduit pipe	((d) Steel Conduit pipe(f) All of the above	()) \
	(e) G.1 Conduit pipe	((1) All of the above	()	,
26)	The best copper wire for electrica (a) FR Copper wire	l wirin	is (b) FRLS&H copper wire	()	`
	(c) HFFR Copper wire	((d) Aluminum wire	()	ر ۱
	(e) All of the above	((d) / Hummum wife		•
27)	The voltage grade of PWD appro-	ve copp			
	(a) 650 volts	((b) 440 Volts	())
	(c) 250 Volts	((d) 230 Volts	())
	(e) 1100 Volts	((f) None of the above	())

28)	The Voltage grade for single phase	system i	in India is;		
	(a) 120 Volts			()
	(c) 250 Volts	()	(d) 415 Volts	()
	(e) 440 volts	()	(b) 230 Volts(d) 415 Volts(f) None of the above	()
29)	The Voltage grade for Three phase	system i	n India is;		
	(a) 1100 Volts	()	(b) 230 Volts	()
	(c) 250 Volts	()	(d) 415 Volts	()
	(e) 440 volts	()	(d) 415 Volts (f) None of the above	()
30)	In the Latest CPWD Electrical spe-	cification	n, the earth wire in the wiring		
	(a) Same size as phase and neutral			()
	(b) Two wires of the same size in t		phases	()
	(c) Must reach the light point with	-		Ì)))
	(d) Must be loop in the switch boar			ì)
	(e) Must not be bare wires	o do prio	100 110 110 110 110 110 110 110 110 110	$\dot{}$)
	(f) All of the above			$\dot{}$)
	(1) This of the above			(,
31)	In a three-phase wiring the voltage	ge becor	ne very high as high as 390 volts in single	nha	se all the
01)			nigh voltage, the connection voltages are fin		
	11	-	what will be the faulty in your electrical wi		
	(a) One number of RYB phase is f		what will be the facily in your electrical wi	()
	(b) Earthing system faulty	auity		()
	- · · · · · · · · · · · · · · · · ·			()
	(c) L.T Panel board faulty	MDD /I	DD f1/	()
	(d) Neutral link in the L.T Panel o		OB faulty	()
	(e) Main to Sub-Main wiring fault	.y		()
	(f) None of the above			()
32)	Whenever you switch on high load	i like Ge	yser/AC and other appliances, your whole v	zolta:	ges use to
32)	fluctuated in each and every time,			Ortag	ges use to
	(a) Wire sizes in the wiring is under		Toe the radity in your wiring	()
	(b) Wire size in the wiring is in sta		70	()
	(c) Wire size in the wiring is in over			()
	- · · ·	ei size		()
	(d) Wiring system faulty			()
	(c) None of the above			()
33)		_	cannot start by itself and required to be run	ning	by
	manual, what will be the faulty on	ceiling f			,
	(a) Winding faulty	()	(b) Regulator faulty	()
	(c) Earth leakage	()	(d) Capacitor faulty(g) None of the above	()
	(f) Blades faulty	()	(g) None of the above	()
34)		C/Geysei	Plug wiring the phase have to be connected	onl	y on the
	(a) Right side of the plug socket	()	(b) Left side of the plug socket	()
	(c) Both side of the plug socket	()	(d) In the third pin of the socket	()
	(d) None of the above	()			

35)	Green colour of wire is meant for (a) Phase wire	()	(b) Neutral wire	()
	(c) Earth wire	()	(d) Can be used for all phase,		`
	(e) None of the above	()	neutral and earth	()
36)	Black colour of wire is meant for	,	`		,	`
	(a) Phase wire(c) Earth wire	()	(b) Neutral wire(d) Can be used for all phase,	()
	(c) Earth whe	(,	neutral and earth	()
	(f) None of the above	()		•	,
37)	The right way of connection Polari				(`
	(a) Incoming at the top(load) and ou(b) Incoming at the bottom(line) and	_	_		()
	(c) Can be connected both sides	a ou	t-goi	ing at the top(load)	()
	(d) Polarity does not effect				()
	(e) None of the above				Ì)
38)	The right way of connection Non-Po	olari	zed i	MCB Normal is		
,	(a) Incoming at the top (load) and o				()
	(b) Incoming at the bottom (line) ar	nd o	ut-go	oing at the top(load)	()
	(c) Can be connected both sides				()
	(d) Polarity does not effect (e) (c) & (d)				()))
39)		cal l	Mac	nines must earth properly to avoid electric	ral shoc	·k
37)	(a) Metal body of the appliances	cari	viac.	inies must carm property to avoid electric	.ai siioc	л.)
	(b) Neutral of the appliances				()
	(c) Phase of the appliances				()
	(d) Only the non-metallic parts of t	he b	ody		()
	(e) None of the above				()
40)	The safety factor normally practice	in lig	ght l	.	(`
	(a) 100% safety(c) 300% safety	()	(b) 200% safety(d) 400% safety	())
	(e) None of the above	()	(d) 400% salety	(,
41)	Generator transformers are:					
	(a) Step-up transformers	()	(b) Step-down transformers	()
	(c) Auto-transformers	()	(d) One-one transformers	()
	(e) None of the above	()			
42)	_	e cr	iteria	of selecting particular generator transfor	mer?	
	(a) Low HV voltage	()	(b) Low LV currents	()
	(c) High impedance(e) None of the above	()	(d) On-load tap-changer	()
43)	Generator transformers can undergo	o su	dder	load-changes.		
*	(a) True	()	(b) False	()
	(c) None of the above	()			

44)	Station transformers are general (a) Providing generator voltage (b) Providing power to load from (c) Isolating DC (d) To supply power section audie) None of the above	to transr om transm	niss	sion	(((((((((((((((((((())))
45)	Which of the following does no	ot follow	the			
	(a) LV at 11 kV	()	(b) HV at 275-400 kV	()
	(c) Low impedance	()	(d) On-load tap-changer required	()
	(e) None of the above	()			
46)	Operating load factor of station	transfor	mer	must be:		
,	(a) Low	()	(b) High	()
	(c) Zero	ì)	(d) Infinite	Ì)
	(e) None of the above	()	` '		
47	D 6 177. 1.					
47)	For a unit transformer HV volta	age must	be:		(`
	(a) 400 kV	()	(b) 200 kV (d) 100 kV	()
	(c) 24 kV (e) None of the above	()	(d) 100 KV	()
	(e) None of the above	()			
48)	What voltage of On-load tap-ch	nanger is	req	uired for unit transformer?		
ĺ	(a) 11 kV	()	(b) 23 kV	()
	(c) 400 kV	()	(d) Not required	()
	(e) None of the above	()			
40)	W7	c D: 1				
49)	What is the primary function of	f a Diesel	l Ge		,	`
	(a) To purify water	()	(b) To cool the environment	()
	(c) To produce electricity	()	(d) To generate heat	()
	(e) None of the above	()			
50)	Which component of a Diesel C	Generatin	12 S	et converts mechanical energy into electrical	ene	rgv
/	(a) Turbocharger	()	(b) Radiator	()
	(c) Alternator	()	(d) Fuel tank	()
	(e) None of the above	()			
51)	Permanent magnet moving coil				,	,
	(a) Is used for measuring of dir				()
	(b) Is used for the measuremen				()
	(c) Produces torque for deflecti				(`
	the total current flow in the (d) Is used for measurement of				()
	(e) None of the above	ancinani	ig c	unent	()
	(e) None of the above				()
52)	The braking system of an energ	zv meter :	:			
,	(a) Makes use of magnet for red			on of aluminium disc	()
	(b) Makes use of temporary ma				()
	(c) Also record the number of r				()
	(d) Makes use of temporary ma	ignet for	redi	ucing the rotation of aluminium disc	()
	(e) None of the above				()

53)	If a 100 watts bulb is used for 10 ho	urs	, the	n the amount of electrical energy cons	um	ned wil	l be:
	(a) 100 watts	()	(b) 1 KWh (1 unit of energy)		()
	(c) 1000 Watts (1KW)	()	(d) More than one of the above		()
	(e) None of the above	()				
54)	The errors in the measurement which voltage supply are:	h a	rise (due to unpredictable fluctuation in tem	peı	rature a	and
	(a) Instrument errors	()	(b) Personal errors		()
	(c) Least county errors	()	(d) Random errors		()
	(e) All of the above	()				
55)	The type of damping use for moving	o ira	on in	strument is:			
00)	(a) Air friction damping)	(b) Fluid friction damping		()
	(c) Eddy current damping	()	(d) Gravity friction damping		()
	(e) All of the above	()	, , ,		`	,
56)	A meter read 125 V and the true val instrument.	ue (of the	e voltage is 125.5 V. Find the static error	or (of the	
	(a) 125/0.5 V	()	(b) 125 V		()
	(c) 0.5 V	()	(b) 125 V (d) 0.5/125 V		()
	(e) None of the above	()	(d) 0.5/125 V		(,
57)		ıstrı	ımeı	nt is in motion, then the deflecting torq		is oppo	osed by:
	(a) Damping torque	11'	,	() (b) Controlling torque		()
	(c) Both damping torque and contro	IIIn	g toi	rque () (d) Rotating torque		()
	(e) None of the above			()			
58)	A Galvanometer is used to:						
	(a) Detect the direction of light			() (b) Detect the direction	n o	of curre	nt ()
	(c) Detect the direction of magnetic	ind	uctio	on () (d) Detect the direction	n o	of sound	d ()
	(e) None of the above			()			
59)	More power is required to operate a	mo	ving	g iron meter than PMMC meter because	e o	f the m	agnetic
	circuit's high.						
	(a) Resistance	()	(b) Reluctance(d) Resilience	()	
	(c) Retentivity	()	(d) Resilience	()	
	(e) None of the above	()				
60)	The braking torque of induction typ	e si	ngle	- phase energy meter is:			
	(a) Directly proportional to square of		_		()	
	(b) Directly proportional to the flux				()	
	(c) Inversely proportional to the flux				()	
	(d) Inversely proportional to the squ	ıare	of tl	ne flux	()	
	(e) None of the above				()	
61)	One top of refrigeration in the S.I.	mit	•				
61)	One ton of refrigeration in the S.J. v (a) 840 kJ/min	11111 (18.	(b) 420 kJ/unit	()	
	(c) 21 kJ/unit	()	(d) 210 kJ/unit	()	
	(e) None of the above	()	(d) 210 kg/uiit	(,	
	(c) Tions of the doors	(,				
62)	At a domestic refrigerator's back, th	ne b	ank				
	(a) Evaporator tubes	()	(b) Condenser tubes	()	
	(c) Capillary tubes	()	(d) Refrigerant cooling tubes	()	
	(e) None of the above	()				

63)	Which of these refrigerants is highly (a) R-12 (c) Carbon dioxide (e) None of the above	y fla (((mm))	able and toxic? (b) Sulphur dioxide (d) Ammonia	()		
64)	In a vapour compression cycle, whe (a) Evaporator (c) Expansion Valve (e) None of the above	ere d ((O WO))	e find the lowest temperature? (b) Condenser (d) Compressor	()		
65)	Which of these types of compressor (a) Rotary (c) Piston Type Reciprocating (e) None of the above	(((e use)))	ed in our domestic inverter refrigerator (b) Centrifugal (d) Miniature Sealed Unit	ors? (()		
66)	Which of these is the refrigerant that (a) R-12 (c) R-11 (e) None of the above	t ha (((s the)))	e highest critical pressure? (b) Ammonia (d) R-22	()		
67)	Which is not the type of leak test for (a) Dye testing for refrigerant leak (c) Magnetic leak detector (e) All of the above		air (e te	est	()
68)	Most of the changes of leakage in a (a) Compressor outer case joint (c) Processing tube joint (e) None of the above	-	t air)))	conditioner are from : (b) Swage Joint (d) Flare joint	()		
69)	indoor Air handling unit (b) Compressor and condenser are poutdoor Air handling unit	ors,	of ar mot	n external unit while the evaporative con internal unit while the evaporative cor, connecting pipes and heat exchange nit itself	oil i	-	()
70)	How is the condensed water drained (a) Siphon method (c) Gravitational method (e) None of the above	d fro ((om ca)))	assette unit ? (b) Condensation method (d) Pumping method	()		
71)	Air Conditioning involves: (a) Control of temperature (c) Control of air motion and air pur (e) None of the above	rity		() (b) Control of humidity() (d) All of these()	()		
72)	Room air conditioner delivers condi (a) Fan (c) Blower (e) None of the above	ition ((ned a)))	ir to an enclosed space without any: (b) Ducts (d) Air filter	()		

73)	The co-efficient of performance of	of an w	indo	ow AC is domestic refriger	ator.			
	(a) Lower than	()	(b) Equal to	()		
	(c) More than	()	(d) 3 times of	()		
	(e) None of the above	()					
74)	In split AC the indoor unit compr	rises of	:					
ŕ	(a) Evaporator and blower						()
	(b) Evaporator coil, blower and c	apillary	y tul	be			()
	(c) Evaporator coil, blower and n	notor, a	ir fi	lter, control panel, supply and return	air (Grill	s ()
	(d) Evaporator coil, air filters, co	ntrol pa	anel	, supply and return air grills, capillar	y tub	e	()
	(e) None of the above						()
75)	In which type of split AC, the ind	loor un	it is	invisible?				
/	(a) Ceiling mounted split unit)	(b) Floor mounted split unit	()		
	(c) Wall mounted Split unit	()	(d) Ductable split unit	()		
	(e) None of the above	()	1				
76)	During fire emergencies, Fire lift	is used	l hv					
70)	(a) All persons in the building	()	(b) Only firemen	()		
	(c) VIP persons	()	(d) Disable person	$\dot{}$)		
	(e) All of the above	()	(a) Bisable person	(,		
77)	<u> -</u>	nat effic	cien	tly moves people or goods between f	loors	s of	a bu	ilding
	(a) Escalator	()	(b) Elevator	()		
	(c) Hydraulic pump	()	(d) Building Hoist	()		
	(e) None of the above	()					
78)				a chain on open compartments (each				gned
	for two persons) that move slowl	y in a l	oop	up and down inside a building without	out st	opp	ing.	
	(a) Paternoster Lift	()	(b) Pneumatic Lift	()		
	(c) Hydraulic Lift	()	(d) Escalator	()		
	(e) None of the above	()					
79)	These elevators utilize air pressur	re to lif	t the	e elevator cab. The cab has a vacuum	sea	l bui	lt in	to the
	ceiling.							
	(a) Paternoster Lift	()	(b) Pneumatic Lift	()		
	(c) Hydraulic Lift	()	(b) Pneumatic Lift(d) Escalator	()		
	(e) None of the above	()					
80)	These elevators which are power	ed by a	pis	ton that travels inside a cylinder. An	elect	ric r	note	or
/	pumps hydraulic oil into the cylin	-	_					
	(a) Paternoster Lift	()	(b) Pneumatic Lift	()		
	(c) Hydraulic Lift	()	(d) Escalator	()		
	(e) None of the above	()			,		
81)	It is a device designed to stop a d	escend	ino	car or counterweight beyond its norm	nal li	mit	and	to
01)			_	s into the pit during an emergency.	11	11111	and	
	(a) Steps	()	(b) Treads	()		
	(c) Buffer	()	(d) Counter weight	()		
	(e) None of the above	Ì)		`	,		

82)	Buildings designed nowadays bu	uilt vert	ical	ly due to increased land cost and	populati	on.
	(a) True	()	(b) False	()
	(c) True and false	()	(d) None of the above	()
83)	It is a type of lift (on basis of US	SE) that	is u	used in offices, buildings, hotels,	etc.	
	(a) Trade Lift	()	(b) Hospital lift	()
	(c) Car lift	()	(d) Good lift	()
	(e) None of the above	()			
84)	It is a type of lift (on basis of US	SE) that	is u	used in hospitals and treatment ce	ntres.	
	(a) Trade Lift	()	(b) Hospital Lift	()
	(c) Car Lifts	()	(d) Good lift	()
	(e) None of the above	()		,	
85)	It is a type of lift (on basis of US transportation of people.	SE) that	is u	used in flats and other high-rise by	uildings	for efficient
	(a) Trade Lift	()	(b) Hospital Lift	()
	(c) High Residential Lift	ì)	(b) Hospital Lift(d) Good lift	ì)
	(e) None of the above	Ì)			,
86)	It is a type of lift (on basis of US	SE) that	con	ntrols a system back in emergency	у.	
,	(a) Fire Lift	()	(b) Hospital Lift	()
	(c) High Residential Lift	ì)	(d) Good lift	ì)
	(e) None of the above	Ì)	、 /		,
87)	It is a type of lift (on basis of further electric technology to send peop (a) Pneumatic Lift (c) Electric Lift (e) None of the above			t is basically electro-mechanical buildings. (b) Hydraulic Lift (d) Good lift	enabled (gearless traction))
88)	* -			at are powered by piston that traversely cylinder to move the piston. The		-
	(a) Pneumatic Lift	()	(b) Hydraulic Lift (d) Good lift	()
	(c) Electric Lift	()	(d) Good lift	()
	(e) None of the above	()			
89)		op of ca	ar a	ed on the ascending push general and under the car. The vacuum at the top of the elevator	•	
	(a) Pneumatic Lift	()	(b) Hydraulic Lift	()
	(c) Electric Lift	ì)	(d) Good lift	()
	(e) None of the above	()	(4) 0000 220		,
90)	up and down inside a building w (a) Paternoster Lift			chain on open compartments that ping. Passenger can step on or of (b) Hydraulic Lift		
	(c) Electric Lift	()	(d) Good lift	()
	(e) None of the above	()			

Section- B (10 marks)

- II. Complete the following Estimation & Costing for a complete Electrical Estimate. Given
 - (a) 10 Nos of Very Short point @ Rs 300/-
 - (b) 15 Nos of Medium point @ 450/-
 - (c) 5 Nos of Ceiling fan point @ 450/-
 - (d) 50 mtr length of Main to sub-main single phase 6 Sqmm @ 500 per metre
 - (e) 30 mtr length of Main to Sub-main in three phases in 10 sqmm @ 700 per metre
 - (f) 20 EOL point of Power plug point 16 A @ 1350 per point
 - (g) 10 Nos of EOL AC/Geyser point 20A @ 2300 per point
 - (h) 25 nos of LED Tube light @ 700/-
 - (i) 5 Nos of Ceiling fan @ 3500/-
 - (j) 20 Nos Light plugs with switch board @ 4500/-
 - (k) 4 Nos of TP & N MCB DB with MCB 4 ways @ 12400/-
 - (1) 8 Nos of SP&N MCB DB with MCB 8 ways @ 3450/-
 - (m)1 No L.T Panel Board in complete @ 167000/-
 - (n) 1 No Service Connection @ 55000/-
 - (o) 1 No ESE Lightning arrestor in complete @ 75000/-
 - (p) 2 Nos Chemical Earthing in complete @ 6700/-