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Government of India
Central Electricity Authority
Regional Organisation (South)
II, Shastri Bhawan, Chennai – 600 006



Telefax:
044-28257051

Phone:
044-28276579

e-mail:
riosouthceachennai@gmail.com

No.78/P-577/5/2017-RIO/

Dated 16/06/2017.

To
The Authorised Signatory,
M/s Appasamy Ocular Devices Pvt. Ltd.,
R S No.9/1, 2 & 3, NH-45A,
Villupuram Main Road,
Vadamangalam,
Puducherry 605 102

**Approval for Electrical Installations
(Under Regulation 32 & 43)**

Installations:-

Equipment:

- 22 kV DP Structure (3 Sets), 22 kV VCB Panel, 1000 KVA, 22kV/433 V Transformer, 1 x 250 KVA, 415 V DG Set (DG-2), Associated Panels and Equipments as per list enclosed – Two Pages

Location:	M/s Appasamy Ocular Devices Pvt. Ltd., R S No.9/1, 2 & 3, NH-45A, Villupuram Main Road, Vadamangalam, Puducherry 605 102
Inspected by:	Deputy Director, RIO(S), CEA, Chennai on 19.05.2017

Reference:-

Your Letter No.	Online Application No. A/2017/02085	Dated	19.05.2017
Our Letter No.	78/P-577/5/2017-RIO/250	Dated	25.05.2017
Your Letter No.	Nil	Dated	02.06.2017

With reference to the above, approval is hereby granted for energizing the electrical installation as given above. This approval is strictly subject to your full compliance with the relevant provisions of the CEA (Measures relating to Safety and Electric Supply) Regulations, 2010 (as amended to date) in every respect. The statement of energisation particulars may please be forwarded to this office immediately after energisation of the installation.

The next inspection of these equipments under regulation 30 shall be due after two years from the date of this approval.

Mary Francis

(MARY FRANCIS)
Deputy Director
For CEI to Govt. of India

Copy to:-

The Chief Engineer (CEI), CEA, New Delhi – 110 016

उप निदेशक / Deputy Director
क्षेत्रीय विद्युत विभाग
Regional Inspector Organisation
क्षेत्रीय विद्युत विभाग
Central Electricity Authority
II, Shastri Bhawan, Chennai - 600 006

M/s. Appasamy Ocular Devices Pvt Ltd.,
R.S. No: 9/1,2&3, NH-45A Villupuram to Pondy Main Road,
Vadamangalam, Puducherry.

LIST OF EQUIPMENTS FOR APPROVAL

HT Installations:

- 1) 22KV EB side RSJ Control D.P. Structure with the following accessories:
a) 1No. 22KV, 400A, AB Switch with 22KV P.T Insulator b) 1 set of 22KV H.G Fuse c) '0' SWG Cu. wire for H.T Jumper
2) 22KV RSJ HT Metering Cubicle D.P. Structure with the following accessories:
a) 1No. 22KV, 400A, AB Switch with 22KV P.T Insulator b) 1 set of 22KV H.G Fuse c) 1 Set of 18KV Lighting Arrestor d) 22KV Metering Cubicle
3) 22KV RSJ Consumer D.P. Structure with the following accessories:
a) 1No. 22KV, 400A, AB Switch with 22KV P.T Insulator b) 1 set of 22KV H.G Fuse c) 1 Set of 18KV Lighting Arrestor
4) 22KV, VCB Panel Details: Make : Kirloskar Capacity : 630A SL.No.: 160P149
22KV, 3C, 185Sq.mm. Al.Ar. HT UG Cable from Consumer DP Structure to 22KV, 630A, VCB

MV Installations:

1) 22KV/433V, 1000KVA Transformer:

Make : Kirloskar
Capacity : 1000KVA Serial No : LF 079/01
Voltage : 22KV /433V Full load Amps (HV/LV) : 26.2A/1333.40A
22KV, 3C, 185Sq.mm. Al.Ar. HT UG Cable (14mtrs.) from 22KV, 630A, VCB to 22KV/433V-1000KVA Transformer (HV side)
1000KVA Transformer LV side connected to 1600A, 4P, ACB by 2R, 3½C, 400Sq.mm. Al. Ar. Cable.

2.) 250KVA DG Set-2:

Engine		Alternator	
Make : Cummins		Make : Stamford	SL No. : N12G290238
BHP : 310 @ 1500 RPM		Rating : 250 KVA	
SL No. : 25773804		Voltage : 415 V	Current : 347 A.

Standard Control Panel; Power cable - 2R 3.5 Core 150 Sq.mm Al.Ar. Cables

3.) ACB Main Panel:

Make : Schneider Electric SI No.: MVS16N4NW6A74344994001/01 Capacity: 1600 Amps

4) Main MV Panel with Double bus arrangement:

EB Incoming : ACB - 1600 Amps.	I/C Cable Size: 2R-3½ Core, 400Sq.mm. Al. Ar. Cable		
DG - 01 Incoming : MCCB- 630 Amps. as spare			
DG - 02 Incoming : MCCB- 630 Amps.	I/C Cable Size: 2R-3½ Core, 150Sq.mm. Al. Ar. Cable		
Outgoing Feeders: 1) 2Nos. 160A, MCCB	2) 2Nos. 250A, MCCB	3) 4Nos. 315A, MCCB	4) 4Nos. 400A, MCCB
5) MDB -01: Incoming: 125 A, MCCB	Outgoing: 6Nos., 63A, MCCB	I/C Cable Size: 1R- 3½C, 120Sq.mm. Al. Ar. Cable	
6) MDB -02: Incoming: 250 A, SDF	Outgoing: a) 2Nos., 125A, SDF	b) 2Nos. 63A, SDF	
7) MDB -03: Incoming: 125A, SDF	Outgoing: 6Nos., 63A, SDF	I/C Cable Size: 1R- 3½C, 120Sq.mm. Al. Ar. Cable	
8) MDB -04: Incoming: 125A, SDF	Outgoing: 2Nos., 125A, SDF	b) 2Nos. 63 A, SDF I/C Cable Size: 1R- 3½C, 120Sq.mm. Al. Ar. Cable	
9) MDB -05: Incoming: 200A, MCCB	Outgoing: 3Nos. 125A, MCCB	b) 3Nos., 63A, MCCB I/C Cable Size: 1R- 3½C, 120Sq.mm. Al. Ar.	
10) MDB -06: Incoming: 400A, SDF	Outgoing: 7Nos. 125A, SDF	I/C Cable Size: 1R- 3½C, 240Sq.mm. Al. Ar. Cable	
11) Capacitor Panel: Incoming: 400A, MCCB		I/C Cable Size: 1R- 3½C, 240Sq.mm. Al. Ar. Cable	

Total: 165 KVar, Capacitor (25Kvar - 2nos, 20Kvar - 2nos, 15Kvar - 2nos, 10 Kvar-3nos, 5Kvar -3 nos.)

- 12) LDB -01: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 12 nos.
- 13) LDB -02: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 12 nos.
- 14) LDB -03: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 6 nos.
- 15) LDB -04: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 7 nos.
- 16) LDB -05: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 12 nos.
- 17) LDB -06: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 5 nos.
- 18) LDB -07: Incoming: Three Pole MCB - 32 Amps. , Outgoing: Single pole: MCB 6 Amps - 5 nos.
- 19) PDB -01: Incoming: Three Pole Isolator - 100 Amps. , Outgoing: Single pole: MCB 25 Amps - 17 nos.
- 20) PDB -02: Incoming: Three Pole Isolator - 100 Amps. , Outgoing: Single pole: MCB 25 Amps - 19 nos.
- 21) PDB -03: Incoming: SDF - 125 Amps. Outgoing: SDF - 63 Amps - 05 nos.
- 22) PDB -04: Incoming: SDF - 63 Amps. , Outgoing: MCB - 25 Amps - 12 nos.
- 23) PDB -05: Incoming: SDF - 63 Amps. , Outgoing: MCB - 25 Amps - 12 nos.
- 24) PDB -06: Incoming: SDF - 125 Amps. Outgoing: MCB - 32 Amps- 02 Nos ; MCB - 16 Amps - 02 nos.
- 25) PDB -07: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 05 Nos ; MCB - 10 Amps - 01 nos.
- 26) PDB -08: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 06 Nos ; MCB - 10 Amps - 01 nos.
- 27) PDB -09: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 07 Nos ; MCB - 10 Amps - 01 nos.
- 28) PDB -10: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 04 Nos ; MCB - 10 Amps - 01 nos.
- 29) PDB -11: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 05 Nos ; MCB - 10 Amps - 01 nos.
- 30) PDB -12: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 04Nos ; MCB - 10 Amps - 01 nos.
- 31) PDB -13: Incoming: MCB - 63 Amps. Outgoing: MCB - 16 Amps- 06 Nos ; MCB - 10 Amps - 01 nos.
- 32) PDB -14: Incoming: MCCB - 100 Amps. Outgoing: MCB - 40 Amps- 12 Nos.
- 33) PDB -15: Incoming: MCB - 32 Amps. Outgoing: MCB - 16 Amps- 04 Nos ; MCB - 25 Amps - 01 Nos.
- 34) PDB -16: Incoming: MCB - 25 Amps. Outgoing: MCB - 16 Amps- 05 Nos
- 35) PDB -17: Incoming: MCB - 32 Amps. Outgoing: MCB - 16 Amps- 04 Nos
- 36) PDB -18: Incoming: MCB - 25 Amps. Outgoing: MCB - 16 Amps- 05 Nos

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- 37) PDB -19:Incoming: MCB -20 Amps. Outgoing: MCB - 6 Amps- 02 Nos; MCB - 16 Amps- 03 Nos
 38) PDB -20:Incoming: MCB -25 Amps. Outgoing: MCB - 10 Amps- 01 Nos; MCB - 16 Amps- 03 Nos.
 39) PDB -21:Incoming: MCB -25 Amps. Outgoing: MCB - 16 Amps- 05 Nos
 40) PDB -22:Incoming: MCB -32 Amps. Outgoing: MCB - 16 Amps- 04 Nos; MCB - 25 Amps- 01 Nos
 41) PDB -23:Incoming: MCB -32 Amps. Outgoing: MCB - 16 Amps- 04 Nos; MCB - 25 Amps- 01 Nos
 42) PDB -24:Incoming: MCB -32 Amps. Outgoing: MCB - 16 Amps- 04 Nos; MCB - 25 Amps- 01 Nos
 43) PDB -25:Incoming: MCB -32 Amps. Outgoing: MCB - 16 Amps- 04 Nos; MCB - 25 Amps- 01 Nos
 44) PDB -26:Incoming: SDF -200 Amps. Outgoing: SDF - 125 Amps- 02 Nos; MCB - 20 Amps- 01 Nos
 45) PDB -27:Switch Connector Box - SDF 200 Amps
 46) PDB -28:Incom.: MCB -32 Amps. Out.:MCB - 20 Amps- 03Nos; MCB - 16Amps- 06Nos ;MCB - 25Amps- 01 Nos
 47) PDB -29: Incoming: SDF -125 Amps. Outgoing: MCB - 20 Amps- 14Nos; MCB - 32 Amps- 02Nos

List of Connected Loads

Sl. No.	Description	Load per unit in KW	Qty.	Total Load in KW
1.	Steam Sterilizer	1.00	1	1.00
2.	Humidity Champer	1.00	1	1.00
3.	Air Curtain - (1-2)	1.00	2	2.00
4.	Air Curtain - (3-4)	0.50	2	1.00
5.	Pouch Sealing Machine - (1-3)	0.33	3	1.00
6.	Pouch Sealing Machine - (4-5)	0.50	2	1.00
7.	Washing Machine - (1-2)	0.50	2	1.00
8.	Laminor Air Flow Bench - (1-2)	0.50	2	1.00
9.	Laminar Air Flow Bench - (3-4)	1.00	2	2.00
10.	Split Ac (11-15)	1.00	5	5.00
11.	Split Ac (16-17),(20-21)	1.50	4	6.00
12.	Split Ac (18-19),(22-45)	1.00	26	26.00
13.	Dry Heat Sterilizer	3.00	1	3.00
14.	Pass Box	1.00	1	1.00
15.	Vial Washing Machine	1.00	1	1.00
16.	Ultrasonic Cleaner	0.50	1	0.50
17.	Distilled Water Plant	1.00	1	1.00
18.	Drying Oven	1.00	1	1.00
19.	Vial Sealing Machine	1.00	1	1.00
20.	Vial Filling Machine lock type-(1-2)	0.50	2	1.00
21.	Exhaust Fan	1.50	1	1.50
22.	Automatic Aspectic Filling Machine	1.00	1	1.00
23.	AHU - (1-2) - IOL FF/SF	3.00	2	6.00
24.	Condensing Unit - (1-4)	5.50	4	22.00
25.	Condensing Unit - 05	8.50	1	8.50
26.	Boiler	5.50	1	5.50
27.	Water Plant	5.50	1	5.50
28.	AHU Blower - Pharma clean room	1.00	1	1.00
29.	Exhaust Fan - (2-5)	1.00	4	4.00
30.	Sterility Champer - (1-4)	5.50	4	22.00
31.	ETO Sterilizer (1-2)	2.00	2	4.00

Sl. No.	Description	Load per unit in KW	Qty.	Total Load in KW
32.	Refrigerator	1.00	1	1.00
33.	Peel Tester	0.10	1	0.10
34.	HPLC	0.50	1	0.50
35.	UV Spectrometer	0.50	1	0.50
36.	FTIR	0.10	1	0.10
37.	Shrink Packing Machine - (1-2)	1.00	2	2.00
38.	Split AC - (46-52)	1.50	7	10.50
39.	Autoclave - 01	15.00	1	15.00
40.	Mechanical Evaporator	20.00	1	20.00
41.	Microscope - (01-07)	1.00	7	7.00
42.	Microscope - (08-09)	1.50	2	3.00
43.	Microscope - (10-12)	1.00	3	3.00
44.	Laminor Air Flow Bench - (5-16)	1.00	12	12.00
45.	Developing Machine - (01-08)	0.44	8	3.50
46.	Developing Machine - (09-13)	0.70	5	3.50
47.	Washing Machine - (03-08)	0.67	6	4.00
48.	Packing Machine - (1-2)	0.50	2	1.00
49.	Distilled Unit - (1-3)	1.00	3	3.00
50.	Chiller - (1-2)	2.00	2	4.00
51.	Blist Packing - (1-2)	0.50	2	1.00
52.	Pouch Sealing (6-7)	1.00	2	2.00
53.	Rotlex Machine (1-6)	0.33	6	2.00
54.	Air Shower	3.10	1	3.10
55.	Autoclave - 02	18.00	1	18.00
56.	Fan	2.00	1	2.00
57.	Air Compressor - (1-2)	49.50	2	99.00
58.	Air Drier	5.00	1	5.00
59.	Split AC - (1-10)	1.00	10	10.00
60.	Misc. Equipment's			9.75
61.	Lighting Load			23.75
Total Load in KW				407.80KW

Total Connected Load = 384.05 KW + 23.75KW Lighting Load = 407.80 KW & Capacitor Bank = 165 KVAR

138.50

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138.50
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 407.80 KW
 165.00 KVAR

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