

GOVERNMENT OF TELANGANA
ELECTRICAL INSPECTORATE

From:

The Chief Electrical Inspector
to Government of Telangana
Mint Compound,
Hyderabad-500 063.
Phone: 040-23453023



ITC Limited
Paper Boards and Speciality
Papers Division
Bhadrachalam
Sarapaka (V),
Burgampahad (M),
Kothagudem (Dt)

Lr.No.CEIG/TS/HT/KMM-19/D.No. U&D/19 Dated: 06/3 / 2019

Sir,

Sub: The Electricity Act-2003 and Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010 -Electrical Installation of Voltage Exceeding 650 V of M/s ITC Limited , Paper Boards and Speciality Papers Division Bhadrachalam Sarapaka (V), Burgampahad (M), Kothagudem (Dt) - Statutory Approval under Section 54 of The Electricity Act-2003 and Regulation 43(4) of CEA (Measures Relating to Safety and Electric Supply), Regulations 2010- Accorded .

Ref:- 1) Inspection Dated. 22/02/2019 .
2) Your Lr. received on dated. 06/03/2019 .

Under Section 54 of The Electricity Act-2003 and Regulations 43(4) of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations,2010, the following equipment of your Electrical Installation of voltage Exceeding 650V are approved for energisation.

AS PER ANNEXURE ENCLOSED.

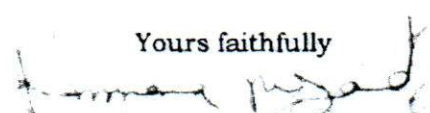
Under Regulation 43(4) of Central Electricity Authority (Measures relating to Safety and Electric Supply) Regulations, 2010, any additions or alteration in your installation shall not be connected to supply until the same are approved in writing by this office and offer for annual inspection under Regulation 30 of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2010 every year to the concerned Deputy Electrical Inspector.

Under Regulation 13(4), 46(7) of Central Electricity Authority(Measures relating to Safety and Electric Supply)Regulations, 2010, you are at all times solely responsible for the maintenance of the above installation on such condition as to be free from danger.

The above approval accorded is without prejudice to the statutory/ mandatory obligations to be fulfilled by you under various other acts and rules as the case may be.

The approval accorded for energizing the electrical equipment is the safety for men and machine from electrical hazards in your installation and ipso facto does not confer any right to be used for any other purpose other than for which the approval is accorded.

Yours faithfully


CHIEF ELECTRICAL INSPECTOR

TO GOVERNMENT

Encl:- List of Load
Particulars

Copy to The Superintending Engineer/Operation/TSNPDCL/Khammam.

Copy to : Deputy Electrical Inspector/Warangal Sub division .

Sl.No	Particulars	Existing	Additions	Deleted	Total load as on this date
1	132 KV Isolator with earth switch	2 Nos., Siemens make, 145KV, 1250A, 31.5KA Isolator		---	2 Nos., Siemens make, 145KV, 1250A, 31.5KA Isolator
		5 Nos Siemens make, 145KV, 1250A, 31.5KA Isolator in GIS		---	5 Nos Siemens make, 145KV, 1250A, 31.5KA Isolator in GIS
		S.No. E01/QZ1/QZ9/QZ10/E02/QZ1/QZ9		---	S.No. E01/QZ1/QZ9/QZ10/E02/QZ1/QZ9
2	a) 132KV L.A.s	6 Sets, 120KV		---	6 Sets, 120KV
	b) 6.6 / 7.5 KV L.A.s	Four sets		---	Four sets
3	132KV C.T.s	7 Sets, 120KV		---	7 Sets, 120KV
4	132KV P.T.s	5 Sets		---	5 Sets
5	132KV Isolators	4 Nos (2 No. make SMC, 800A, 132KV & 2 Nos, Siemens make, 145KV, 1250A, 31.5KA Isolator).		---	4 Nos (2 No. make SMC, 800A, 132KV & 2 Nos, Siemens make, 145KV, 1250A, 31.5KA Isolator)
6	132 KV MOCB / SF6 Breakers, 4Nos	5 Nos.-Siemens make, 3150 A, 145 KV, 40 KA & 1 No.-ABB make 1600A, 132KV		---	5 Nos.-Siemens make, 3150 A, 145 KV, 40 KA & 1 No.-ABB make 1600A, 132KV
7	132KV POWER TRANSFORMER	a) Make: GEC (T2A), SI No B-29291, 20/25 MVA, 132 / 11KV		---	a) Make: GEC (T2A), SI No B-29291, 20/25 MVA, 132 / 11KV
		b) Voltamp make, (T2) SI.No.JN 8685/1, 10/12.5MVA, 132KV/11KV,		---	b) Voltamp make, (T2) SI.No.JN 8685/1, 10/12.5MVA, 132KV/11KV,
		c) Make: Schneider (T1), SI.No. D-10929, 25/31.5 MVA, 132 / 11KV		---	c) Make: Schneider (T1), SI.No. D-10929, 25/31.5 MVA, 132 / 11KV
		d) Schneider make (T1A), 25/31.5 MVA, 132KV/11KV		---	d) Schneider make (T1A), 25/31.5 MVA, 132KV/11KV
		S.No. 626000644		---	S.No. 626000644
8	Breakers / Isolators (3.3KV)	19		---	19
	Breakers / Isolators (6.6KV)	386		---	386
	Breakers (11KV)	234		---	234
9	a) 6.6/11KV Ohline & Cables	6.6/11KV OH line & Cable 35793 Mtr		---	6.6/11KV OH line & Cable 35793 Mtr
	b) 6.6/3.3 KV Neutral grounding resistor	12		---	12
	c) 11 KV Neutral grounding resistor	8		---	8
10	11 / 6.6 & 3.3 KV Power Transformers.				
		1) Make: GEC Alstom (FRBT), (T40) SI.No.B29293, 9/11MVA, 11KV/6.6KV		---	1) Make: GEC Alstom (FRBT), (T40) SI.No.B29293, 9/11MVA, 11KV/6.6KV
		2) Make: GEC Alstom, (TG-3), (T41) S.No.B29300, 6 / 7.5MVA, 11KV/6.6KV		---	2) Make: GEC Alstom, (TG-3), (T41) S.No.B29300, 6 / 7.5MVA, 11KV/6.6KV
		3) Make: B.B.Ltd, S.No.4273/1, (T60) 9/11MVA, 11/6.6KV (TIE)		---	3) Make: B.B.Ltd, S.No.4273/1, (T60) 9/11MVA, 11/6.6KV (TIE)
		4) Make: Voltamp, (T60A) S.No.JN-8686/2, 9/11MVA, 11KV/6.9KV		---	4) Make: Voltamp, (T60A) S.No.JN-8686/2, 9/11MVA, 11KV/6.9KV
		5) Make: B.B.Ltd, S.No.4631/1, (T61) 9/11MVA, 11/6.6KV		---	5) Make: B.B.Ltd, S.No.4631/1, (T61) 9/11MVA, 11/6.6KV

Government of Andhra Pradesh
Electrical Inspectorate

3-4-000
Original
Letter

From
The Chief Electrical Inspector to
Government of A.P., Mint compound,
Hyderabad.4.

To
✓ M/s. Bhadrachalam Paper Boards Ltd.,
P.B.No.4,
Bhadrachalam, Khammam Dt.,

Lr.No. Adm. Roc. T1.1430.78 dt. 3.10.79.

Sir,

Sub: Indian Electricity Act and Rules--HV installations of
M/s. Bhadrachalam Paper Boards Ltd., Sarpaka, Khammam
Dt., Provisional approval under rule 63 (2)--accorded--re-
reg.

Ref: 1. This office Lr.No. Adm. Roc. T1.1430.78, 1 dt. 2.4.79. ✓
2. --do-- dt. 17.7.79. ✓
3. Your letters dt. 21.9.79.

{ In this office letters under references 1 and 2 cited provisional
permissions for commissioning tests and trial runs on equipments
as per the lists enclosed were accorded. In continuation of
these permission regular approval under rule 63 (2) is accorded
for the equipments as per the annexures.

However this regular approval is subject to the compliance of
the following conditions.

- 1) As per undertaking given in your letter 3rd cited, the power
purchased from A.P.S.E. Board and generated power should not
be sold to outsiders.
- 2) The Electrical distance between the 33 KV lightning arrester
to the main transformers bushings (2nos) should be maintained
within 18 metres. As informed by you, you are requested
to make arrangements to shift the location of lightning ar-
rester so as to maintain the above electrical distance. This
must be complied with in 3 months from the date of receipt
of this letter.

Yours faithfully,

Encl: as above.

sd. T.S. Gopala Krishna,
Chief Electrical Inspector to Govt.,

Copy to Electrical Inspector, A.P., (West) Hyd. for information.
Copy to Asst. Electrical Inspector, Warangal for information.

Forwarded:: By order

PK Ramana

Annexure to C.F.R. by Adm. No. 11/14. 17070/22/179

I. LIST OF MAIN EQUIPMENTS OFFERED FOR INSPECTION

33 KV Switchyard:

- / a. 4 Nos. of 33 KV 400 Amps Isolators.

Make: Switchgear Manufacturing Company.
Sanatnagar
Hyderabad.

- / b. 33 KV MOCB's. 3 Nos.

Sl. Nos. 9020929, 9020930, 9020931.

Type HLC 36/1000 Minimum Oil Circuit Breaker.

33 KV 1000 Amps 750 MVA 3 Phase 50 C/S.

Make: Bharat Heavy Electricals Limited, Bhopal.

- / c. Current Transformers - 3 Nos.

Sl. Nos. AR 902, 903, 904

Outdoor, Oil cooled, Metering and Protective Current Transformer.

Make: Automatic Electric Limited.

Bombay - 400 031. India.

Rated Short time current 13.1 KA for/sec.

Rated voltage 33,000 volts 50 C/s.

Core No. 1 400-200/1A

Core No. 2 400-200/1A

Core No. 3 Nil

- / d. Current Transformer 6 Nos.

Sl. Nos. AR 906, 908, 909, 905, 907, 910

Outdoor Oil cooled, Metering and protection current Transformer.

Make: Automatic Electric Ltd., Bombay

Rated Voltage 33000 Volts 50 C/S

Core No:2 400 - 200/1A 10 VA

Core No:2 400 - 200/1A 15 VA

Core No:3 400 - 200/1A —

Contd.... 2...

- e. Potential Transformer (One Set)
Sl.Nos. 1378, 1379, 1380
Make: Automatic Electric Limited
33 KV Potential Transformer Single Phase,
Single Pole, insulated, Outdoor, Oil Cooled

$$\frac{33 \text{ KV}}{\sqrt{3}}$$

$$\frac{110 \text{ V}}{\sqrt{3}}$$

110V

- f. 33 KV/ 6.9Kv 7.5/9 MVA Transformers 2 Nos.
Sl.No: 1810/2, 1810/1
Make: Dharat Bijlee Limited, Bombay
3 Phase 50 C/S
Type of Colling ON/OB
Vector group DY. 11

- g. 2 Nos. of Air Cooled, Cast Iron grid type neutral
earthing resistor 4.8 ohms at 800 Amps for 10 Sec.
duty suitable for Outdoor installation with 12 KV
bushing.

Sl.No: 78/470, 78/471

Make: Strom-kraft Controls, Bombay.

SWITCHYARD CONTROL ROOM

6.6 KV 150 MVA 4 Panel Switchboard type: vercors-23.
Make: Tata-Marlin and Gerir Ltd., Bombay
Consisting of the following Breakers:

1. Incomer 1250 Amps rating: Sl.No: 4270/78
2. Incomer 1250 Amps rating: Sl.No: 4271/78
3. Outgoing 400 Amps rating: Sl.No: 4272/78

Contd.. 3...

...3...

POWER HOUSE (Substation No. II)

8. 6.6 KV 150MVA, 12 Panel Switchboard type Vercora - 23.
Make: Tata Merlin and Gerin Limited, Bombay
Consisting of the following Breakers.

1. Bus Coupler 1250 Amps rating Sl.No:4304/78
2. Generator Incomer 1250 Amps rating Sl.Nos. 4303/78
3. Transformer T2 Incomer 1250 Amps rating Sl.No:4301/78
4. Outgoing feeders 400 Amps rating Sl.Nos. 4296/78 to 4300/78 Sl.No: 4302/78, 4303/78 to 4307/78, 4298/78, 4299/78, 4300/78.

✓ 9. Transformer Nos. 13 and 14 (Sl.Nos. 1808/8) and 1808/11:

2 Nos. of 1600 KVA 6600/433 Volts, 140/2135 Amps
3 Phase 50 C/s. Transformer
Make: Bharat Bijlee Ltd., Bombay
Type of Cooling CN. Vector group DY 11.

10. L.T. Power control centres Nos. 12, 13 and 14.
Designed for Fault level of 43.4 KA at 415 Volts
Cubicle type ACB switchboard
Make: English Electric Board
PCC 12 consisting of the following feeders.

- i. 1 Nos. Incomer 2500 Amps rating
- ii. 1 No. Buscoupler 2500 Amps rating
- iii. 4 Nos. outgoing 1000 Amps rating

PCC 13 Consisting of the following feeders

- i. 1 No. Incomer 2500 Amps rating
- ii. 1 No. Buscoupler 2500 Amps rating
- iii. 6 Nos. outgoing 1000 Amps rating.

PCC 14 consisting of the following feeders.

- i. 1 No. Incomer 2500 Amps rating
- ii. 6 Nos. outgoing 1000 Amp rating.

Contd.... 4...

Contd....5...

b. Communication line of RA line.

A and B.

a. 6.6 KV Overhead line (RA line) with terminal structures

OVERHEAD LINE

a. One No. 1 L.T. Motor Control Centre (MCC 151) designed for a fault level of 43.3 KA at 415 V 3 phase 4 wire 50 C/S.

b. One No. 1 L.T. Motor Control Centre (MCC 15 and 16) designed for a fault level of 43.3 KA at 415 volts. 3 phase 4 wire 50 C/S.

Transformer: RI Nos. 1809/1 and 1809/2
M/s: Bharat Bijlee Ltd., Bombay.

b. One No. 1 L.T. Motor Control Centre (MCC 15 and 16) designed for a fault level of 43.3 KA at 415 volts. 3 phase 4 wire 50 C/S.

a. 2 Nos. of 6.6 KV Crompton Greaves type ASA 1 3 phase 400 amps 150 MVA fault making load breaking oil switches. RI No. 18935 E

Clear Water Pump House:

a. 220 Volts Charger (Main Unit) Make: Elite Engineers Pvt. Ltd., Madras.
Type of Cell: 400

b. "Amcor" Tubular stationary Battery 220 Volts. 400 AH. designed for fault level of 43.3 KA at 415 Volts.

Make: Larsen and Toubro Limited

3 phase 4 wire 415 volts 50 C/S

One No. 1 L.T. Motor Control Centre (MCC 143)

Make: Larsen and Toubro Limited

designed for a fault level of 43.3 KA at 415 V

3 phase 4 wire 415 volts 50 C/S

One No. 1 L.T. Motor Control Centre (MCC 151)

.. 3 ..

- a. One No. of 100 KVA Transformer 3 6600/433 Volts (I R D V A)
30 C/a. Sl.No: 579. Sl.No: 579
Make: Electric Transformer and Equipment Company
Hyderabad.
- d. 6.6 KV 150 MVA 400A AP and Switch Board type
Vercore - 23.
Make: Tata Merlin and Gerin Limited, Bombay
Consisting of the following Breakers.
1. 3 Nos. outgoing Breakers 400A ratings
Sl.No: 4273/78, 4274/78, 4275/78
 2. 1 No: Incomer load Break Switch 400 Amps
rating Sl.No: 47/78
- e. 3 Nos. of 6.6 KV 290 KW 32 Amps, 1000 RPM
H.T. squirrel cage motors. Sl.No: 3780, 3781, 3782, 3783.
Make: Kirloskar Electric Co., Bangalore.
Frame size KV EH 450 Y-connected IP55 Class 'B'
Insulation.
- f. 'Amco' Batteries 30V 60 AH along with Charger
Make: Elite Engineers Pvt. Ltd., Madras.

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P. R. Suresh

Assistant Electrical Inspector,
Office of the Chief Electrical,
Inspector to Govt. A. P. Hyderabad.