

Single Window



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CRD
09/06/2014

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Carlsberg
India

Date - 6/6/14

AA 5/6/14
1/17/14

To,
Director Technical
Industry Dept
Govt. Of Bihar

Sub: Suggestions from CIPL for getting stable Electrical Power Supply, 33 KV from BSEB.

Ref: Submission of request letter to the office of Principal Secretary, Industrial Dept on dtd.-7/4/2014 for bringing the issue in his knowledge

And

Meeting with you at your office on dtd.-2/5/2014

Dear Sir,

We met with you at your office for our following issues-

- 1702/012
9/6/14
- 1) Frequent Power supply failure at 33 KV
 - 2) BSEB Electrical Power supply of voltage drops down many a time up to 24% of rated 33 KV
 - 3) BSEB supplied unbalanced voltages up to 5% among phases

Where you advised us to suggest solutions as customer prospective. CIPL proposing following suggestions for you perusal.

122/FAKT
10/6/14
श्री ३ राजाजी
Gand
11.06.14

We are witnessing the supply of voltage drops down many a time up to 24% on lower side of 33 KV and unbalanced voltages up to 5% among phases. Please refer annexure for detail.

BSEB should provide dedicated power supply grid to Carlsberg India Pvt. Ltd, since existing power supply grid have many tapping for domestic purpose. Domestic load is unbalance load (single phase usage), which results voltage variation between three phases. Peak usage during peak hours also have voltage drop during peak hours.

Uninterrupted and stable power supply will help us to achieve installed capacity quickly, product availability in market and revenue support to Bihar government.

We are sure that such support from department will work as growth engine for industries like Carlsberg. It will be our pleasure to work with you on above plan.

Regards,

For Carlsberg India Pvt. Ltd.

Authorized Signatory

Encl- Copy of letter submitted at the office of Principal Secretary

CC- CEO UdyogMitra

- Chief Electrical Engineer -BSEB
- GM - BSEB

Carlsberg
India
Private
Limited

Corporate Office :
5th Floor, Tower B
Paras Twin Towers, Sector 54
Gurgaon 122 002, Haryana, India
Ph. : +91 124 4554444
Fax : +91 124 4554499

HP Plant :
Tolkian, Paonta Sahib,
Distt. Sirmour 173 021
Himachal Pradesh, India
Ph. : +91 1704 645401/416
Fax : +91 1704 255161

Rajasthan Plant :
SP 1-4 & B5-8, MIA Extn.,
Alwar 301 030
Rajasthan, India
Ph. : +91 144 2881176
Fax : +91 144 2881177

Maharashtra Plant :
H-17/1/1, MIDC Waluj,
Aurangabad 431 136
Maharashtra, India
Ph. : +91 240 2555101-2
Fax : +91 240 2555103

AP Plant :
Survey No.-281/293, Mollepally,
Kondapur(M), Distt. Medak 502 295
Andhra Pradesh, India
Ph. : +91 8455 23013/114/115
Fax : +91 8455 230116

To

Dated: 07/04/2014

Principal Secretary

Industries Department

Govt. of Bihar, Patna

7/4/14

Subject: Constraints in supply of Electricity from Bihar State Electricity Board at our Factory site Kanpa, Bikram.

Respected Sir,

We would also like to apprise our company "Carlsberg India Private Limited" ("Carlsberg") which is a part of the Denmark based Carlsberg Group – the 4th largest brewing group in the world and our products are sold in more than 150 countries. We take this as an opportunity to apprise you of the fact that we are operating in India since 2007, having our state of art manufacturing unit set up at 6 different locations across India and have been making considerable contribution in generating employment opportunities, ancillary business opportunities and good amount of tax revenue to the State Govt, etc, and thus partnering in the overall prosperity in States revenue. As you are aware, Our 7th unit has come up at approximately 45 Km away from the city of Patna in township of Bihta, PS-Bikram, District-Patna, Bihar with FDI. Our unit is going to be a significant contributor to the State of Bihar in terms of generating good revenue. It is our pleasure to appraise that Carlsberg India has consistently achieved award for being one of the best Taxpaying Company in the State.

Sir, we are facing serious issues with the quality of supply of Electrical Power (33 KV) at our site. We have state of the art machineries (Highly sophisticated-German, Japanese make with Computerized Programming Logic controlled), requires balanced Voltages among all three phases and over & under voltages (33 KV) with the range band of +/- 6% variances max. Since we are not getting the same on regular basis so as a result we are unable to start our production at the manufacturing facility.

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5th Floor, Tower B
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Gurgaon 122 002, Haryana, India
Ph. : +91 124 4554444
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Ph. : +91 8455 230113/114/115
Fax : +91 8455 230116

Details of the same explained below:

- 1) **Cause** - Unbalanced Voltages between Phases Observation- Individual phase unbalance up to 5%

Affect due to this issue-

Motor and sophisticated instrumentation performance is affected considerably by the quality of input power. Pl look the below table which indicates the effect of temp rise in Electrical motor on account of unbalanced voltage.

Example of effect of unbalanced on supply voltage at motor terminal

Parameter	Percentage of unbalanced		
	0.3	2.3	5
Unbalanced in current	0.4	17	35
Increased Temp rise	0	30	35

If our motor is running near full load, there are considerable chances of burning of the same account of Rise in Temp.

So to protect this unwanted burning of such motors, now a day's Electrical drives are protecting the same by tripping the starter on account of voltage difference. If the voltage differences increases by more than 3 to 4 % they stops the starting and running commands of our motors, So our entire plant stops and only options left us to run DG set for plant operation.

- 2) **Cause** - Consistently low HT voltage problem during evening time, and in noon.

Observation- Range of low HT voltage varies up to some times 25 KV but generally it is in the range of 28 KV

Affect due to this issue-

Motor performances are considerably affected by the quality of Input power available, which is actual volts and frequency. As per BIS, motor are designed for +/- 10 % of 415 Volts. So beyond this range their performances are adversely deteriorated. Though we have already installed OLTC (on load tap changer) at our Electrical system and we are able to manage to take care of this +/- 10% voltage variations, but BSEB supply for low voltages are average low by 15% and sometimes it drops down by 24% also.

Sir,

We would request you good self and like to draw your kind attention to kindly address our issue with the concerned department so as to sort out the same on priority, enable us to start our production and being a significant contributor in the industrial growth of the state.

We would also like to participate in the latest upcoming "Udyami" meet, organised by the State Industries department.

Attachments:

Annexure1-Copy of the letter submitted with the Local electrical sub-station, Kanpa and Assistant Engineer.

Annexure2-Data captured on supply.

Thanking you



For Carlsberg India Private Limited
Authorized Signatory