

**BEFORE THE HARYANA ELECTRICITY REGULATORY COMMISSION**

**BAYS No. 33-36, SECTOR-4, PANCHKULA- 134112, HARYANA**

**Case No. HERC/PRO – 71 of 2017**

DATE OF HEARING : 05.04.2019

DATE OF ORDER : 28.05.2019

**IN THE MATTER OF:**

Petition seeking approval of the Hon'ble Haryana Electricity Regulatory Commission in terms of Regulation 3.2.2 of the Haryana Electricity Regulatory Commission (Electricity Supply Code) Regulations, 2014 dated 08.01.2014 (HERC/29/2014) for conversion of supply voltage for a sanctioned load of 495 KW under HT Industrial category from 11kV to 33 kV as requested by the consumer M/S Singhania Furnishers.

**Petitioner**

Uttar Haryana Bijli Vitran Nigam Limited

**V/s.**

**Respondent**

M/s. Singhania Finishers, Pasina Kalan Road,  
Panipat

**PRESENT**

On behalf of the Petitioner:

1. Shri Rajesh Arora, DST, UHBVNL
2. Shri Manoj Garg, XEN, UHBVNL
3. Shri Vinay Baranwal, Xen RA UHBVNL

On behalf of the Respondent:

No one Appeared

**QUORUM**

**Shri Jagjeet Singh, Chairman**

**Shri Pravindra Singh Chauhan, Member**

**ORDER**

**Brief background of the Case:**

1.1. The Petitioner has submitted that:

- a) M/S Singhania Furnishers is a Large Supply Industrial consumer with account No. LS-36/LS-01-3147 located in Village Pasina Kalan, Distt. Panipat

- under Beholi Sub-Division, Panipat of UHBVN. The Company, was initially released a Large Supply HT Industrial connection in the year 2005 with connected load of 198.90 kW with a Contract Demand of 199 kVA at 11 kV from 11 kV Pasina Road Industrial feeder emanating from 33 kV Substation, Beholi. The Company, thereafter, got the load extended and is presently having a sanctioned load of 495 kW at 11 kV.
- b) In order to have better quality and reliability of power supply, the Company has requested the Nigam for conversion of supply voltage from 11kV to 33 kV by releasing the connection from an existing 33 kV Line, namely Untla feeder emanating from 400 kV Substation Sewah, which is passing right in front of the Company premises.
- c) The 400 kV Substation, Sewah has a 60 MVA, 220 j 33 kV Power Transformer which has a capacity of 1040 Amps on 33 kV side against maximum demand recorded to date as 600 Amps on 33 kV. The additional load that will come on this power transformer in case load of the Company is released from 33kV Untla feeder is 5 Amps only. At present 18 industrial consumers, with their Contract Demands varying from 445kW to 3000kW are presently fed from 33kV Untla feeder (305 Amps). The maximum demand recorded is only 160 Amps. Therefore, there is ample capacity in the Power Transformer at 400 kV Substation, Sewah as well as in the 33 kV Untla feeder to take this additional load.
- d) Technical feasibility of conversion of supply voltage from 11 kV to 33 kV for 495 kW LS connection of the Company was examined by the Nigam and it was recommended by the Technical Feasibility Committee to shift the load of the Petitioner Company from 11 kV Pasina Industrial feeder to 33 kV Untla Feeder.
- e) As per the provisions of Regulation 3.2.2 of the *Haryana Electricity Regulatory Commission (Electricity Supply Code) Regulations, 2014*, the supply voltage of 33 kV is admissible only for a contracted load exceeding 2000 kVA and up to 25000 kVA. For load up to 5000 kVA, specified supply voltage is 11 kV. It has, however, been provided in this regulation that In case where supply, depending upon the technical conditions of the transmission/distribution

system and / or the requirement of the consumer, has to be given at a voltage higher than that specified in this regulation, the licensee may give the same subject to the Commission's approval. Accordingly, the Company i.e., M/S Singhania Furnishers, filed a Petition (HERC/PRO-38 of 2017) before this Hon'ble Commission to seek approval for conversion of supply voltage from 11 kV to 33 kV for their sanctioned load of 495 kW. The Hon'ble Commission, however, vide its Interim Order dated 24.07.2017 on the said Petition decided as under:-

*"After hearing both the parties the Commission feels that as per ibid Regulation, Discom to file a petition for approval of the Commission for release of extended load on 33KV instead of 11KV. So if desired. The Discom may file a petition in this regard within a month."*

Hence this Petition has been filed by UHBVNL.

- f) It is technically feasible to release 495 kW load, presently being catered supply upgradation of voltage level from 11 kV to 33 kV for better reliability of supply and is ready to bear the entire expenditure of conversion from 11 kV to 33 kV. The Tee-off shall be done by laying 33 kV XLPE cable from the point of tapping to consumer's premises. There are 18 No. consumers connected on this 33 kV feeder with their sanctioned load/ contract demand varying from 445 kW to 3000 kW. Regarding some of the apprehensions expressed by the Hon'ble Commission during the course of hearing on the Petition earlier filed by the Company, it is submitted that extension of Supply to the company from 33 kV Untla feeder shall in no way impact the reliability of supply to existing consumers on this feeders as there would be no overhead extension of line and possibility of faults in cables are much less than in overhead bare conductor lines. Further, there is no possibility of fault at consumer's premises travelling to main line because incoming 33 kV breaker controlling the consumer's 33/0.4 kV Power Transformer will have all necessary protection like over current protection, Earth fault or Earth leakage protection etc and in case of any fault within consumer's premises, incoming 33 kV breaker will trip.
- g) Apart from giving industrial connections by tapping 33 kV Untla feeder, in

Industrial Model Township (IMT) Rohtak, developed by HSIDC wherein 132 kV substation and 33 kV line for the Township has been laid by HSIDC at their cost, the connections have been released to the following three consumers by tapping 33 kV line erected by HSIDC .

- a. Ashian Paints (3500 kW and 3500 kVA)
- b. Lotto (3500 kW and 4000 kVA)
- c. M/s Sabarkantha Society (3000 kW and 3000 kVA)

Lately, in all new sector of Gurugram which are under development, 33/0.4 kV system is being laid instead of 11/0.4 kV system. Accordingly HT Connection in these sectors shall be given by Tapping 33 kV feeders laid for this purpose. It is, therefore, submitted that there is no bar on tapping 33KV lines. The provision in clause 4.8.3 of Duty to Supply Regulations that 'no tapping of 33kv and above line would be allowed', it is felt, should apply to 33 kV lines connecting

- h) In view of the above, it is prayed that Hon'ble Commission may kindly accord approval for conversion of supply voltage from 11kV to 33 kV for the LS connection of the company having a sanctioned load of 495 kW in terms of provision of regulation 3.2.2 of HERC (Electricity Supply Code, 2014) Regulations, subject to the condition that entire expenditure on this account shall be borne by the Company. The Petitioner has prayed as under:-

*(i) The Petition may kindly be accepted in the present form;*

*ii) Necessary approval may kindly be accorded to the proposal of up gradation of supply voltage to the Company from 11 kV to 33 kV as solicited under Regulation 3.2.2 of the HERC/29/2014 Regulations;*

### **Proceedings**

- 2.1 The matter was heard by the Commission on 28.11.2017 as scheduled. Shri Ankur Juyal, Consultant, UHBVNL and Shri B S Garg, SE, UHBVNL appeared on behalf of the Petitioner presented the case and more or less reiterated their submissions as made in the Petition. Petitioner submitted that the sufficient capacity is available at 60 MVA, 220/33 kV power transformer at 400 kV Substation Sewah and at 33

kV Untla feeder, as such, there is no technical constraint in releasing the load of the Respondent from existing 33 kV Untla feeder. It was further submitted that the Respondent Company has requested for up-gradation of voltage level from 11 kV to 33 kV for better reliability of supply and is ready to bear the entire expenditure of conversion from 11 kV to 33 kV. Having heard the contentions of the Petitioner, the Commission directed the Petitioner to submit tripping and breakdown details of last one year in respect of 11 kV Pasina Road Industrial feeder emanating from 33kV S/s, Beholi and 33kV Untla feeder emanating from 400kV S/s Sewah. The Petitioner vide it's Memo No. Ch-36/GM/RA/N/F-196 dated 14/12/2017 submitted the said information.

- 2.2 The internal meeting of the Commission to discuss the matter however could not fructify on account of non-availability of the Members. Further, it was also noted that in the matter of M/s Continental Warehousing Corporation (Nhava Seva) Limited, the Commission had declined the request of the applicant submitted CGM Commercial, UHBVN with the observation that there was no technical constraint in giving 1 MW connection on 11 kV. As such, with a view to maintain the consistency, transparency and non-discrimination, the occupying Regulations in the field have to be adhered to and uniform decision making should be reflected. All persons should be treated identically unless there is a marked distinguishing feature. The sanctioned load of the beneficiary therein was 1000 kW as compared to the sanctioned load in the present case being 495 kW. It was duly noted in the internal discussion that the petitioner could not substantiate its claim on better reliability of supply from 33 kV Untla feeder against the 11 kV Pasina Industrial Feeder. The issue of technical constraints as well as the impact of such dispensation of the quality and reliability of supply on other consumers had to be ensured. Accordingly, it was proposed that the data of tripping and breakdown of both the feeders be examined before approving the proposal. An opinion however, was recorded in the internal meeting held on 27/4/2018 that the higher number of trippings on 33 kV feeder were attributed to mal-functioning of the relay setting of the 33 kV breaker controlling 33 kV line and the relay settings of 33 kV breakers installed at the premises of the consumer which was causing mal-coordination of relay settings resulting in constant trippings/break-down. Resultantly, it was ordered on 3/5/2018 that the data on tripping as well as break-down alongwith

previous orders in the identical/similar cases and the interest of other consumers be examined before any proposal is approved.

2.3 Thereafter, the hearing of the case was fixed for 5/4/2019 as per the scheduled hearing fixed by the Commission. However, no tangible fact were produced by the petitioner for justification of the prayer made by the petitioner.

### **Commission's Analysis & Order**

3.1 The Commission had considered the pleadings as well as the submissions made at the time of hearing and the data/material based on record in the case is as under:-

**Table 1: Tripping Details submitted by the Petitioner vide Memo No. Ch-36/GM/RA/N/F-196 dated 14/12/2017**

Month	33 KV Untla Feeder (22.6 K.M long)				11 KV Pasina Road Industrial feeder (8.2 K.M)			
	No's of trippings	Duration of trippings (8 Minutes)	No's of Break down	Duration of Break down	No's of trippings	Duration of trippings (Minutes)	No's of Break down	Duration of Break down
Apr-16	20	2:40 Hrs.	2	4:47 Hrs.	8	16	3	05:45
May-16	22	2:56 Hrs.	9	16:44 Hrs.	5	10	1	07:30
Jun-16	19	2:32 Hrs.	8	2:14 Hrs.	12	24	2	08:05
Jul-16	18	2:22 Hrs.	2	4:14 Hrs.	6	12	0	0
Aug-16	26	3:28 Hrs.	7	14:34 Hrs.	8	16	2	0.4
Sep-16	20	2:40 Hrs.	4	7:00 Hrs.	10	20	0	0
Oct-16	14	1:52 Hrs.	2	4:16 Hrs.	7	14	4	12:40
Nov-16	14	1:52 Hrs.	5	20:00 Hrs.	9	18	3	17:00
Dec-16	11	1:28 Hrs.	6	13:16 Hrs.	10	20	4	16:00
Jan-17	10	1:20 Hrs.	6	13:00 Hrs.	8	16	2	13:15
Feb-17	6	0.48 Hrs.	0	0	6	12	0	0
Mar-17	17	1:16 Hrs.	5	6:44 Hrs.	7	14	0	0
Apr-17	38	5:04 Hrs.	12	20:56 Hrs.	9	18	1	2:55
May-17	14	1:52 Hrs.	18	32:30 Hrs.	7	14	7	22:25
Jun-17	24	3:12 Hrs.	4	6:00 Hrs.	10	20	2	09:45
Jul-17	33	4:24 Hrs.	1	1:00 Hrs.	9	18	1	02:20
Aug-17	24	3:12 Hrs.	5	11:10 Hrs.	8	16	1	02:15
Sep-17	25	3:20 Hrs.	12	23:20 Hrs.	10	20	1	03:35
Oct-17	20	2:40 Hrs.	6	15:00 Hrs.	8	16	2	03:25

a) The Commission acknowledges that Regulation 3.2.1 of the *Haryana Electricity Regulatory Commission (Electricity Supply Code) Regulations, 2014*, provides for specific supply voltages depending upon the load requirement of respective consumer. The Regulation in, general provides for supply at 11 kV voltage level for the load exceeding 50 kW and up to 5000 kVA and at 33 kV level for the contracted load exceeding 2000 kVA and up to 25000 kVA, however, Regulation 3.2.2 further provides that in case where supply, depending upon the technical conditions of the transmission/ distribution system, has to be given at a voltage other than that specified in this regulation, the licensee may give the same subject to the Commission's approval. The relevant part of the *HERC (Electricity Supply Code) Regulations, 2014* is reproduced below;

### **"3.2 Classification of Supply**

*3.2.1 Supply shall generally be given at the following voltages on the basis of contracted load:*

<b>Category</b>	<b>System of Supply</b>
<b>High Tension</b>	
<i>Contracted load exceeding 50 kW and up to 5000 kVA</i>	<i>3 Phase at 11 k V</i>
<i>Contracted load exceeding 2000 kVA and up to 25000 kVA</i>	<i>3 Phase at 33 kV</i>

*3.2.2 Provided that in case where supply, depending upon the, technical conditions of the transmission/ distribution system, has to be given at a voltage other than those specified above, the licensee may give the same subject to the Commission's approval.*

*Provided further that in case an existing consumer gets his contracted load reduced, he may be allowed to continue receiving supply at the same voltage unless he himself requests for supply at lower voltage subject to the condition that his reduced load is in High Tension category."*

From the perusal of above Regulation, it is evident that the as per statutory requirement the licensee has to approach the Commission for seeking approval for releasing a connection at a voltage other than those specified in the supply code. The Commission further noted that the Respondent Company has approached for up gradation of supply voltage from existing 11 kV to 33 kV in order to have better quality and reliability of power supply. The Commission acknowledges that quality

and reliability of power supply is essence of industrial growth and is in agreement with the concerns of the Respondent Company.

b) The Commission further acknowledges that the clause 4.8.3 of *Haryana Electricity Regulatory Commission (Duty to supply electricity on request, Power to recover expenditure incurred in providing supply and Power to require security) Regulations, 2016* provides that supply to 33 kV substations would be given through independent lines i.e. no tapping of 33 kV and above line would be allowed.

c) The Commission found rationale in planning and development of distribution system at 33 kV level in areas having concentrated load, high load demand clubbed with Right of Way (RoW) constraints. It is understood that the distribution system at a 33 kV voltage level will not only help in serving high density load in congested area but will also help in reducing the technical losses, however, the design and planning of such system is subject to techno economic considerations which has to be kept in mind while planning such system. It may also be acknowledged that the provisions of Technical Standards for Connectivity to the Grid Regulations notified by CEA along with other relevant standards are binding on distribution licensee and are to be complied with.

d) It is noted that the Commission vide letter dated 12/01/2016 had declined the request of M/s Continental Warehousing Corporation (Nhava Seva) Ltd. for according approval for releasing new connection with a load of 1000 kW from 33 kV instead of 11kV

3.2 It is observed that the entire case is built on the plea of M/s Singhania Finishers that better quality and reliability of supply be provided to them. However, it is observed from the tripping data submitted by the Petitioner vide its Memo dated 14/12/2017 (indicated in the table above) that there have been 375 nos. of tripping on 33 kV Untla feeder (from where the supply is desired by the consumer) and 157 nos. of tripping on 11 kV Pasina Road Industrial feeder (presently feeding the consumer) for the period from April 2016 to October 2017. Further, the breakdown duration is also quite higher in 33 kV Untla feeder v/s 11 kV Pasina Road Industrial feeder which is evident from the data submitted by the petitioner.

3.3 In view of above reasons, the Petition being devoid of merit deserves to be dismissed and is hereby dismissed.

This Order is signed, dated and issued by the Haryana Electricity Regulatory Commission on 28/05/2019.

**Date: 28.05.2019**

**(Pravindra Singh Chauhan)**

**(Jagjeet Singh)**

**Place: Panchkula**

**Member**

**Chairman**