

**BEFORE THE HARYANA ELECTRICITY REGULATORY COMMISSION**

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

**Case No. HERC/PRO – 52 of 2019**

DATE OF HEARING : 11.03.2020

DATE OF ORDER : 11.03.2020

**IN THE MATTER OF:**

Supply of Power to the proposed 5.0 MTPA capacity Cement Grinding Unit located at Village-Jhanswa, Tehsil-Matanhail, Distt-Jhajjar, Pin-124146.

**Petitioner**

Shri Navin Sabharwal, Unit Head, Wonder Cement Limited, Jhajjar Grinding Unit.

**Respondents**

1. Uttar Haryana Bijli Vitran Nigam Limited,
2. Haryana Vidyut Prasaran Nigam Limited

**PRESENT**

On behalf of the Petitioner:

1. Shri Ashwani Talwar, Advocate for Petitioner
2. Shri Parmod Kumar, Advocate for Petitioner
3. Shri Navin Sabharwal, Vice President, Wonder Cement Ltd.

On behalf of the Respondent:

1. Shri Rajesh Arora, Dy. Secretary (Tech.) UHBVNL
2. Shri Pushpendra Singh, XEN/Planning, HVPN
3. Shri Anil Kumar, XEN/TS, HVPN Rohtak
4. Shri Vishal Sharma, XEN/TS, HVPN Bhiwani

**QUORUM**

**Shri D.S. Dhesi, Chairman**

**Shri Pravindra Singh, Member**

**Shri Naresh Sardana, Member**

## **ORDER**

### **1) Brief Background of the Case:**

1.1 Wonder Cement Limited (WCL), part of R K Group is cement company in India. The company is planning to set up a clinker grinding unit of 5.0 MTPA (Million Tonnes per annum) in two phases (1<sup>st</sup> Phase: 2.5 MTPA & 2<sup>nd</sup> Phase: 2.5 MTPA). The proposed project site is located at Village-Jhanswa, Tehsil-Matanhail, Distt-Jhajjar, Pin-124146. The company is in the process of availing power supply to proposed clinker grinding unit. Total power requirement estimated as 27MVA for our 5 MTPA Cement Grinding Unit (1<sup>st</sup> Phase: 13 MVA, Phase-2: 14 MVA).

The company is willing to take the power at the 132kV Voltage Level due to the following reasons:

- i. The single capacity of the largest motor proposed for above plant is 6300 kW. The voltage drop when starting such motor shall be high at 33 kV and may affect the performance of the electrical system which required further mitigation.
- ii. The power quality at 132kV level will be far better as compared 33kV level with minimum voltage drop. Our sophisticated manufacturing processes use advanced micro-processor-based control systems which require power with minimum voltage drop to achieve expected product quality norms.
- iii. The current requirement at 33 kV for 27 MVA is approx 472A. Multiple cables shall be required to source the power. The current requirement at 132 kV level shall be approx 118A, which can be easily met by single ACSR conductor of suitable size.
- iv. The fault MVA in 132 kV system shall be higher with better system stability in comparison to 33 kV.
- v. The transmission tower with ACSR conductors shall be more rugged and less susceptible to damage in comparison to 33 kV cable.
- vi. The nearest source of 33kV Industrial feeder is at Bahu which is around 12kms from project site. Total cable length (after considering required sag) would be around 15kms. This huge cable length will create higher voltage drop and also impose installation obstructions. Whereas, the 132kV transmission line is crossing very close to our project site (1.8kms line length).
- vii. To meet the additional power requirement after Phase-2 project implementation, we have to incur huge additional cost on account of upgrading the infrastructure from 33kV to 132 kV level (replacement / removal of switch yard including power transformer etc).
- viii. The upgradation of power supply infrastructure from 33kV to 132kV system will require stoppage of manufacturing plant for approx. 3-4 months for dismantling of 33kV infrastructure and installation of new

132kV infrastructure (Switch Yard and Power Transformer) due to space constraints.

## 1.2 Additional Submissions by the Petitioner on 11.02.2020

That in the proceedings dated 10.12.2019, this Hon'ble Commission noticed the request of the petitioner-Company for sanction of power supply at 132 KV level instead of 33 KV level for which, the petitioner has proposed to take LILO connection from 132KV line between 132KV Substation, Kosli and 132KV Substation, Dadri. Whereas, the Distribution Licensee i.e. UHBVNL did not have any objection to the proposal, the HVPNL, prima facie, set up a case that it may not be feasible to give connectivity as per the proposal of the petitioner but the connection can be provided from 220KV Substation, Dadibana.

- a. The Hon'ble Commission directed the respondent-HVPNL to share the information alongwith its expenditure involved with the petitioner and to elicit the response of the petitioner in this regard.
- b. That in pursuance to the said orders, on behalf of the petitioner, site inspections were arranged alongwith the HVPNL representatives and thereafter, the meetings were held with the top-level Management of the Nigam. The total power requirement for the proposed cement grinding Unit being set up by the petitioner at Village Jhanswa District Jhajjar would be 13 MVA for Phase-I and additional 14 MVA for Phase-II (total 27 MVA).

The Nigam Authorities expressed apprehension that in case an LILO connection is provided, there may be problem of Line Control and Metering which the Nigam wants to retain exclusively with it. Keeping in view of the above, the petitioner has proposed that let the Nigam provide LILO connection from 2nd circuit of 132KV Kosli to Dadri line up to the new proposed HVPNL 132KV Switching Station at inside the premises of the petitioner for which, the land, infrastructure and the entire cost of laying shall be borne by the petitioner. From the above proposed HVPNL 132KV Switching Station, a feeder shall be erected for supplying power at 132KV Voltage level to the Plant of the petitioner (M/s Wonder Cement Ltd.). Once the above proposal is accepted and executed by the Nigam, both the Line Control and Metering will be regulated from inside the new proposed HVPNL Switching Station which shall be exclusively and solely under the control of the Nigam. The land requirement for the purpose of setting up the Switching Station and the estimated cost along with time schedule shall be intimated by the Nigam for further necessary action and the petitioner undertakes to concur with the same.

Based upon the discussions with the Nigam Authorities, a letter-cum-proposal dated 23.01.2020 already stands submitted to the Managing Director, HVPNL, Panchkula.

- c. That it is relevant to point out here that 132KV Substation at Kosli is linked with 132KV Substation Dadri by a Double Circuit line and one of the circuits by way of LILO a 132KV Substation, Matanhail has already been set up by the HVPNL. The petitioner proposes to utilize the 2nd Circuit for LILO to the HVPNL Switching Station at the project site of the Unit from where 132KV feeder will be taken from HVPNL Switching Station for supply of power to the Cement Grinding Unit of the petitioner. The proposed single line 132KV LILO connection diagram (not to scale) is annexed for ready reference as Annexure P-2.
- d. That it is further the respectful submission of the petitioner that the proposal as given by the HVPNL for having a radial supply Substation from 220KV Substation, Dadibana is not feasible as the same will entail construction of a 132KV line of around 25 Kms for which the complete project shall have to be prepared, for granting right of way, the proposal should have to be notified in the Gazette, objections shall have to be invited and thereafter only the construction can be started. As already submitted, this Project is a prestigious project for which even Haryana Govt. is showing keen interest as the progress is being monitored by the Empowered Executive Committee at the level of Chief Minister Secretariat. In case the alternative proposal as submitted by the petitioner is accepted, the same shall bring the Unit to the proposed scheduled time frame of commissioning of the Unit by October, 2020.
- e. That it may not be out of place to mention that the total investment in the project being set up by the petitioner which is a leading global cement grind Unit shall be to the tune of Rs. 300 Crores each for Phase-I and same for Phase-II (total Rs. 600 Crores) and the Unit will have a capacity of grinding of 2.5 million tons of cement and the Project will be set at Village Jhanswa, Sub Tehsil Salawas, Jhajjar which falls under 'Block-D'. This mega project shall provide employment to about 750 persons out of which 550 shall be of Haryana domicile.
- f. That as per the Haryana Enterprises Promotion Board (HEPB) guidelines to provide special package of incentives, the various incentives as recommended by the empowered Executive Committee include investment subsidy on net SGST of Rs. 278.46 Crores, employment generation subsidy of Rs. 15.45 Crores, stamp duty refund of Rs. 2 Crores and 100% electricity duty exemption for 10 years valued at about 2.17 Crores.

The empowered Executive Committee in its meeting held on 24.09.2019 under the chairmanship of Principal Secretary to the Chief Minister, Haryana decided to recommend the case for grant of package of incentives amounting to Rs. 298.08 Crores to HEPB i.e. Haryana Enterprise Promotion Board. A copy of the minutes of the Committee dated 24.09.2019 is annexed for ready reference as Annexure P-3.

- g. That the petitioner intends to set up a Cement Grinding Unit in Block-D of Jhajjar District in Haryana which once it is commissioned shall be a State of Art Project with ultra modern technology. The salient land marks achieved so far as given enumerated below: -
- (i) The Plant shall be a Mega Project in 'D' Category Block as per the norms/guidelines of the Haryana Government.
  - (ii) The petitioner has already purchased about 55 acres of land for setting up of the Unit,
  - (iii) The requisite Change of Land use (CLU) has already been granted by the Town & Country Planning Department.
  - (iv) The constructions of the Unit have started and photographs in showing the present state of affairs
  - (v) The entire orders for purchase of Plant & Machinery stand placed and more than Rs. 50 Crores have been paid in advance towards this end.
  - (vi) The Haryana State Pollution Control Board has already granted consent to establish to the petitioner for setting up of the Grinding Cement Unit
  - (vii) It shall utilize even the waste products of Thermal Power Stations including fly ash.
  - (viii) The Empowered Executive Committee vide its minutes of meeting dated 24.09.2019 has recommended the case for grant of package of incentives amounting to Rs. 298.08 Crores for this mega project.
  - (ix) The Northern Railways has granted 'In Principle Approval' (IPA) for Railway siding at the Project side.
- h. That the scheduled date of commissioning of Project as per the petitioner is October, 2020 and the only impediment which remains to be sorted out is the supply of electricity for this Power Intensive Project. The petitioner has already applied for grant of electricity connection and in this regard, Rs. 1,17,20,000/- stands deposited as onetime payment against security way back on 24.09.2019 and had taken up the matter with the Distribution Licensee i.e. Uttar Haryana Bijli Vitran Nigam Ltd. for supply of powers vide letter dated 31.10.2019
- i. That the petitioner shall abide by any directions as given by this Hon'ble Commission in this regard and pray for earliest approval of the Project by directing the respondent-HVPL to supply power to the Unit of the petitioner at 132KV level through an LILO connection from 132KV Kosli to Dadri line by way of having a 132KV Switching Station of HVPL at the premises of the petitioner and from there, a feeder at 132KV level shall be supplied to the Unit of the petitioner.

## **2) Proceedings:**

- 2.1) The matter was heard on 10/12/2019, as scheduled. The Ld. Counsel for petitioner requested for sanction of power supply at 132 KV level instead of 33 KV level and proposed to take Loop-in-Loop-out (LILO) connection from 132 KV line existing between 132 KV Sub Station Kosli and 132 KV Sub-Station Dadri.
- 2.2) Sh. Vishal Sharma XEN appeared on behalf of HVPNL, submitted that they have examined the request of the petitioner and It is not feasible to give connectivity as per the proposal of the petitioner. However, connection can be provided from 220 KV Sub-station Dadibana.
- 2.3) Sh. Rajesh Arora, Deputy Secretary, on behalf of UHBVNL stated that Distribution Licensee has no issue so long as it is feasible to give connectivity by HVPNL.
- 2.4) The Commission, in order to arrive technically feasibility, directed the HVPNL to share the information along with expenditure involved with the petitioner on which petitioner can give his response.
- 2.5) The matter was heard again on 11.02.2020. Shri Ashwani Talwar, Counsel for petitioner submitted that incompliance of the directions given in previous hearing, consultations have been held with the senior officials of HVPNL. Based on the feedback/suggestions given by them, revised proposal had been prepared, which has been submitted by the Petitioner. This proposal is to take supply at 132-kV level through LILO connection from 132-kV Kosli to Dadri line by way of having a 132-kV Switching Station of HVPNL at their premises and from there, a feeder at 132-kV level shall be supplied to the Unit of the Petitioner.
- 2.6) Sh. Pushpendra Singh XEN/ Planning, HVPNL Panchkula submitted that the said proposal has been received by HVPNL and same needs to be examined. He sought time to respond. The Commission, acceding to the request, allowed ten days' time to Respondent to study the proposal and give feedback thereupon.
- 2.7) The matter was finally heard on 11.03.2020. During the course of hearing, the Respondent-HVPNL submitted its reply dated 09.03.2020, wherein inter alia the technical feasibility to M/s Wonder Cement are summarized in Para 11 which is reproduced as under:

***“11. In view of above the technical feasibility for release of connection to M/s Wonder Cement are summarized as under:***

***a) Feasibility from 132 kV substation Bahu at 33 KV level: -***

*As per sales regulations of UHBVNL load in the range of 5MVA to 25MVA can be released at 33kV level. Accordingly, SE/TS, HVPNL, Rohtak confirmed the feasibility from 132kV substation Bahu at 33kV level subject to extension of control room building. It is also mentioned that the feasibility at 132kV level connectivity can only be met out from 220kV*

substation Dadibana. However, the petitioner has filed petition for seeking connectivity at 132 KV level. As per HERC supply code 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 those specified above, the licensee may give the same subject to the Commission's approval.

**b) Feasibility from 220 kV substation Dadibana at 132 KV level: -**

By constructing 132kV S/C line on D/C towers from 220kV substation Dadibana to M/s Wonder Cement site on their cost (22 KM approx.) and 132kV line bay at 220kV substation Dadibana at the cost of M/s Wonder cement is feasible subject to augmentation of 100MVA 220/132kV transformer to 160MVA 220/132kV transformer at 220kV substation Dadibana by HVPN. However, the petitioner has filed short submission for seeking connectivity through LILO of 132 KV Dadri-Kosli line.

**Note:** 27 months' time is required to complete the transmission line works including the time period for tendering process & time required to resolve Right of Way issues, augmentation of 100 MVA T/F at 220 KV Dadibana.

**c) LILO of 132kV Dadri-Kosli S/C line on D/C towers at 132kV Switching Station Jhanswa as proposed by the petitioner:-**

The feasibility from LILO of 132kV Dadri-Kosli S/C line on D/C towers at Switching Station Jhanswa as proposed by the petitioner is submitted as under:-

- As per report of SE/TS Rohtak, the conductor of existing 132kV Dadri-Kosli line cannot bear the load of any additional 132 KV Sub- Station & needs to be augmented at the cost of firm. Further as per Xen/ TS Bhiwani, the existing tower structure has enough strength for replacement of existing 0.2 Sq. inch ACSR conductor with HTLS conductor. Due to some ROW issues, the replacement work of existing conductor may be carried out with the help of local administration.
- To feed proposed substation augmentation of 100MVA to 160MVA 220/ 132kV transformer at 220kV substation BBMB Dadri is required. It is submitted that the 220kV substation Dadri is under control of BBMB. & any augmentation if required can only be done subject to concurrence of BBMB.
- M/s Wonder Cement has not submitted any undertaking for bearing the cost to augment the capacity of existing conductor of 132kV Dadri-Kosli S/C line on D/C towers

*Following has been considered by the field offices of HVPNL while supplying the feasibility through LILO under para (C) after discussion with M/s Wonder Cement:-*

- i) To provide 5 acre of land for construction of 132kV substation as per site visit of HVPNL land suitability committee report as under:
  - *The clear approach road to reach the substation site is to be provided by M/s Wonder Cement.*
  - *The required piece of land is to be provided by M/s Wonder Cement to accommodate the scope of work to be approved by the HVPNL and same may be transferred in the name of HVPNL free of cost.*
  - *Undertaking/Affidavit that M/s Wonder Cement will bear all the expenses for land transfer (including land cost, stamp duty fee, registration charges, cost of construction of substation with line augmentation of existing line etc.**
- ii) M/s Wonder Cement will bear the cost of creation of LILO of 132kV Dadri-Kosli S/C line on D/C towers at proposed 132kV substation Jhanswa with 0.4sq. inch ACSR conductor. (Approx. 2KM)*

*M/s Wonder Cement will bear the cost of creation of 132kV switching station Jhanswa in first instance with three 132 kV line bays, one 132kV bus coupler and 132kV double bus-bar complete in all respect with control room Building etc for providing power supply to 13MVA load of Phase-1 project of the firm and 14 MVA load under Phase-2 of project of M/s Wonder Cement.*

- iii) M/s Wonder Cement will construct 132 kV feeder from 132 kV switching station Jhanswa to M/s Wonder Cement plant (Approx. 2KM).*

*It is submitted that the entire load of the applicant cannot be fed from the LILO of 132kV Dadri-Kosli line even after augmentation of existing 132 KV line due to capacity constraints at feeding substation i.e. 220 KV BBMB Dadri. For feeding the complete load of 27 MVA of M/s Wonder Cement augmentation of 220 kV BBMB Dadri is also required to be examined by the BBMB.”*

- 2.8) The petitioner, in response to HVPNL reply dated 09.03.2020, submitted affidavit dated 11.03.2020 of Sh. Nabin Kumar Singh, authorized signatory, Wonder Cement, Village Jhanswa, Sub Tehsil Salhawas, Tehsil Matanhail (Jhajjar). The contents of affidavit are as under: -

- i. That as has already been brought to the notice of this Hon'ble Commission from the petitioner proposes to set up a cement plant and in the First Phase,*



*the annual capacity shall be 2.5 million ton per annum for which the electricity load requirement is 13 MVA.*

*The construction work for this phase is going on and the scheduled date of commissioning of the project as per the petitioner is October-2020. Although, the petitioner had applied for grant of electricity connection way back on 24.09.2019 and deposited the requisite security, but the same has not yet been sanctioned. Our project is being closely monitor by the empowered executive committee set up by the Haryana Enterprises Promotion Board (HEPB).*

*In the Second Phase, the company proposes to set up a plant with additional grinding capacity of 2.5 million ton per annum which will raise the total grinding capacity to 5 million ton per annum and for this phase, additional power requirement shall be 14 MVA and this is proposed to the commission three years after the commissioning of the first phase.*

- ii. *That in the reply dated 09.03.2020, the respondent HVPNL has in principle, agreed to supply power to the petitioner unit by having a Line In-Line-Out (LILO) of 132 KV Dadri Kosli SIC Line on D/C Towers at 132 KV Jhanswa Sub Station.*

*For this purpose, the respondent have asked M/s Wonder Cement for providing of 5 acre of land for construction of 132 KV Sub Station. We are ready for providing the line upto the extent as required in terms of the electrical lay out plan for the sub-station and also undertake to provide clear approach road to reach the sub-station site. The requisite formalities including the transfer of the land in the name of HVPNL free of cost and undertaking/ affidavit to the effect that M/s Wonder Cement will bear all the expenses for land transfer shall be undertaken with the HVPNL for which we give our consent in principle.*

- iii. *We also undertake to bear the cost of creation of LILO of 132 KV Dadri Kosli SIC line on DIC towers at proposed 132 KV sub-station jhanswa with 0.4 sq. inch. ACSR Conductor (Approx. 2KM).*
- iv. *We also undertake to bear the cost of creation of 132 KV switching station Jhanswa in first instance with three 132 KV line bays, one 132 KV bus coupler and 132 KV double bus-bar complete in all respect with control room Building etc for providing power supply to the project for load requirement of 13 MVA for the first phase and additional 14 MVA for the second phase.*
- v. *M/ s Wonder Cement for the undertake to bear the cost of construction of 132 KV feeder from 132 kV switching station Jhanswa to M/s Wonder Cement Plant (Approximately 2 KM).*

- vi. *That since the initial power requirement for phase-1 of the project is 13 MVA, in respect of the above load, the electricity power be provided from the existing set up and at the stage of getting power for the second phase, whatever further steps are required for strengthening/ augmentation of the system, the same shall be worked out in due course in consultation with the HVPNL/other agencies.*
- vii. *This Hon'ble Commission, under the circumstances, may approve the supply of power to M/s Wonder Cement at 132KV voltage level with the above arrangements."*

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

The Commission has carefully examined the contents of the Petition, reply of Respondents, averments made by the representatives of both the parties during the various hearings in the matter and observes as under: -

In compliance with order dated 11.02.2020, Respondent-HVPNL has submitted reply vide Memo No. Ch-85/NCR/RTK-3034 dated 09.03.2020. Certain additions/modifications have been suggested in the proposal submitted by the petitioner. These find mention in para 11 of above letter of HVPNL. Petitioner has tendered affidavit dated 11.03.2020 wherein under taking to comply with various conditions laid-down by HVPNL has been submitted. Further, during the course of hearing on 11.03.2020, Mr. Talwar, Advocate on behalf of the petitioner, stated that in case, at the time of execution, some further changes and modifications are required, they are willing to accept.

The present prayer is for release of load of 13 MVA for the first phase of the project, which is scheduled to become operational by October, 2020. The prayer of the petitioner is allowed. While allowing the same, option is also given to petitioner to self-execute the works under the supervision of HVPNL.

In view of the above, the present petition is disposed off accordingly.

This Order is signed, dated and issued by the Haryana Electricity Regulatory Commission on 11/03/2020.

<b>Date: 11.03.2020</b>	<b>(Naresh Sardana)</b>	<b>(Pravindra Singh)</b>	<b>(D.S. Dhesi)</b>
<b>Place: Panchkula</b>	<b>Member</b>	<b>Member</b>	<b>Chairman</b>