

**BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION,
6TH, 7TH & 8TH FLOORS, TOWER B, WORLD TRADE CENTRE,
NAUROJI NAGAR, NEW DELHI- 110 029
PETITION NO. /TT/2024**

IN THE MATTER OF:

Petition under Section 79 (1) (c) read with Sections 62 and 64 of the Electricity Act, 2003 and Regulation 8, 9, 10, 36 and 97 of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, Regulation 8, 10, 21 and 22 of the Central Electricity Regulatory Commission (Fees and Charges of Regional Load Despatch Centre and other related matters) Regulations, 2024.

AND

IN THE MATTER OF:

Determination of tariff of the Transmission assets operated and managed by Bhakra Beas Management Board (BBMB) and the SLDC Charges for the control period 01.04.2024 to 31.03.2029

AND

IN THE MATTER OF:

Bhakra Beas Management Board
(BBMB)
Sector 19-B, Madhya Marg,
Chandigarh - 160019

- Petitioner

Versus

1. Punjab State Power Corporation Limited
The Mall, Patiala (Punjab)
2. Haryana Vidyut Prasaran Nigam Limited
Shakti Bhawan, Sector-6, Panchkula (Haryana)
3. Rajasthan Rajya Vidyut Prasaran Nigam Limited
Janpath, Jaipur (Rajasthan)

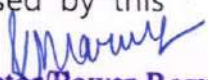

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4. Himachal Pradesh State Electricity Board Limited
Vidyut Bhawan, Shimla (H. P)
5. Union Territory of Chandigarh Through the
Finance Secretary, Sector-9,
UT Secretariat, Chandigarh
6. Rajasthan Urja Vikas Nigam Limited
Vidyut Bhawan, Janpath, Jyoti Nagar
Jaipur (Rajasthan)
7. Haryana Power Purchase Centre
Uttar Haryana Bijli Vitran Nigam Limited (UHBVNL)
Vidyut Sadan, IP No. : 3 & 4, Sector-14,
Panchkula, (Haryana)-134113, India - Respondents

PETITION UNDER SECTION 79 (1) (C) READ WITH SECTIONS 62 (1) (B) AND 64 OF THE ELECTRICITY ACT, 2003; REGULATION 8, 9, 10, 36 AND 97 OF THE CENTRAL ELECTRICITY REGULATORY COMMISSION (TERMS AND CONDITIONS OF TARIFF) REGULATIONS, 2024; REGULATION 8, 10, 21 AND 22 OF THE CENTRAL ELECTRICITY REGULATORY COMMISSION (FEES AND CHARGES OF REGIONAL LOAD DESPATCH CENTRE AND OTHER RELATED MATTERS) REGULATIONS, 2024.

MOST RESPECTFULLY SHOWETH:

1. The Petitioner – Bhakra Beas Management Board (**‘BBMB’**) has filed the present Petition seeking the determination of Tariff and approval for the Transmission Systems operated and managed by BBMB for transmission of electricity to the Respondents herein, i.e., the partner states of BBMB.
2. The Petition is being filed in terms of the provisions of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 (hereinafter referred to as **‘Tariff Regulations, 2024’**).
3. The above provisions of the Tariff Regulations, 2024 are in consonance with the principles laid down in the Order dated 09.01.2019 passed by this


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Hon'ble Commission in Petition No. 16/TT/2017, wherein, this Hon'ble Commission determined the Transmission Tariff for BBMB. Vide Order dated 09.01.2019, this Hon'ble Commission had decided that the Operation & Maintenance ('O&M') Expenses relating to the Transmission Assets operated by BBMB shall be subject to the normative O&M Expenses provided in the Tariff Regulations, 2014 (subject to wage revision etc. on a case to case basis and the revenue earned from sale of power to common pool consumers) and with respect to the other aspects, status quo shall be maintained till 31.03.2019. The relevant extracts from the Order dated 09.01.2019 reads as under:

"22. In this petition, we allow a transition period for add-cap expenditure till 31.3.2019 and the Petitioner is directed to claim its expenses except O&M Expenses for the period 2014-19 from the participating States as per their existing methodology. The Petitioner is directed to file projected add-cap during 2019-24 tariff block as per the 2019 Tariff Regulations that would be notified in due course of time strictly adhering to the timelines.

.....
44. Summary of the decisions in the instant order is as under:-

- (a) As the information submitted by BBMB is not sufficient to calculate all the components of the transmission charges for the 2014-19 tariff period, transmission charges are restricted to O&M Expenses for the transmission system and the SLDC assets owned by the Petitioner.
- (b) The O&M Expenses allowed in the instant order shall not be included in the PoC charges and shall be claimed by the Petitioner from the participating States in proportion to the allocation of power of BBMB.
- (c) The Petitioner is directed to claim the tariff for the transmission system and SLDC assets for the 2019-24 period strictly as per the Tariff Regulations and Fees and Charges Regulations for the period 2019-2024 which shall be notified in due course.
- (d) Rajasthan is liable to pay the transmission and wheeling charges of RFF over and above the charges payable by Rajasthan.
- (e) The filing fees and publication expenses as admissible in terms of Regulation 52 of the 2014 Tariff Regulations shall be shared by the


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participating States in proportion to the allocation of power from the generating station of BBMB."

A copy of the Order dated 9.01.2019 passed by this Hon'ble Commission is attached hereto and marked as **Annexure A**.

4. While notifying the Tariff Regulations, 2024, this Hon'ble Commission incorporated special provisions with respect to BBMB, which, *inter-alia*, reads as under:

"36. Operation and Maintenance Expenses:

(3) Transmission system: (a) The following normative operation and maintenance expenses shall be admissible for the transmission system:

.....

Provided that the O&M expenses for the GIS bays shall be allowed as worked out by multiplying 0.70 of the O&M expenses of the normative O&M expenses for bays;

Provided that the O&M expense norms of Double Circuit quad AC line shall be applicable to for HVDC bi-pole line; Provided that the O&M expenses of ± 500 kV Mundra-Mohindergarh HVDC bipole scheme (2500 MW) shall be allowed as worked out by multiplying 0.80 of the normative O&M expenses for HVDC bipole scheme;

Provided further that the O&M expenses for Transmission Licensees whose transmission assets are located solely in NE Region (including Sikkim), States of Uttarakhand, Himachal Pradesh, the Union Territories of Jammu and Kashmir and Ladakh, district of Darjeeling of West Bengal shall be worked out by multiplying 1.50 to the normative O&M expenses prescribed above.

(b) The total allowable operation and maintenance expenses for the transmission system shall be calculated by multiplying the number of substation bays, transformer capacity of the transformer/reactor/Static Var Compensator/Static Synchronous Compensator (in MVA/MVAr) and km of line length with the applicable norms for the operation and maintenance expenses per bay, per MVA/MVAr and per km respectively

.....

97. Special Provisions relating to BBMB and SSP: The tariff of the generating station and the transmission system of Bhakra Beas


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Management Board (BBMB) and Sardar Sarovar Project (SSP) shall be determined after taking into consideration, the provisions of the Punjab Reorganization Act, 1966 and Narmada Water Scheme, 1980 under Section 6-A of the Inter-State Water Disputes Act, 1956, respectively."

5. BBMB is a statutory body constituted under the provisions of the Punjab Reorganisation Act, 1966 in terms of the reorganisation of the erstwhile State of Punjab on 01.11.1966.
6. BBMB has been engaged in the activities of regulation of supply of water and generation of power from Bhakra Nangal and Beas Projects and the power being made available to the States of Punjab, Haryana, Rajasthan, Himachal Pradesh and Union Territory of Chandigarh, as a statutory body authorised to act on behalf of the Partner States in terms of the Punjab Re-Organization Act, 1966, as detailed herein.
7. As per the Indus Water Treaty, 1960 signed between India and Pakistan, the waters of three Eastern rivers, namely, Sutlej, Beas and Ravi were allotted to India for exclusive use. A master plan was then drawn to harness the potential of these rivers for irrigation, power generation and also to achieve flood control.
8. Bhakra - Beas Project form major part of the above scheme and were established as a Joint Venture of the Rajasthan and the erstwhile State of Punjab.
9. On reorganisation of the erstwhile State of Punjab, BBMB was constituted and the administration, maintenance and operation of Bhakra Nangal Projects were handed over to the Bhakra Management Board with effect from 01.11.1966.


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10. The Beas Project works, on completion were transferred by the Government of India from the Beas Construction Board to BMB and it was renamed as BBMB as per the provisions of Section 80 of the Punjab Re-organisation Act.
11. In pursuance of the above, BBMB has been engaged in the activities of regulation of supply of water, generation and transmission of power from Bhakra Nangal and Beas Projects and the power being made available to the States of Punjab, Haryana, Rajasthan, Himachal Pradesh and Union Territory of Chandigarh in the defined ratio.
12. The status of Transmission assets, their ownership, interest of the participating States (the Respondents herein), role of BBMB and all matters connected therewith are statutorily provided for under Sections 78 to 80 of the Punjab Reorganisation Act 1966. The relevant extracts of the Punjab Reorganisation Act, 1966 are as under:

78. Rights and liabilities in regard to Bhakra-Nangal and Beas Projects.

(1) Notwithstanding anything contained in this Act but subject to the provisions of sections 79 and 80, all rights and liabilities of the existing State of Punjab in relation to Bhakra Nangal Project and Beas Project shall, on the appointed day, be the rights and liabilities of the successor States in such proportion as may be fixed, and subject to such adjustments as may be made, by agreement entered into by the said States after consultation with the Central Government or, if no such agreement is entered into within two years of the appointed day, as the Central Government may by order determine having regard to the purposes of the Projects:

Provided that the order so made by the Central Government may be varied by any subsequent agreement entered into by the successor States after consultation with the Central Government.

(2) An agreement or order referred to in sub-section (1) shall, if there has been an extension or further development of either of the projects referred to in that sub-section after the appointed day, provide also for the rights and liabilities of the successor States in relation to such extension or further development.

(3) The rights and liabilities referred to in sub-sections (1) and (2) shall include-

(a) the rights to receive and to utilise the water available for distribution as a result of the projects, and

(b) the rights to receive and to utilise the power generated as a result of the projects, but shall not include the rights and liabilities under any contract entered into before the appointed day by the Government of the existing State of Punjab with any person or authority other than Government.

(4) In this section and in sections 79 and 80, -

(A) "Beas Project" means the works which are either under construction or are to be constructed as components of the Beas-Sutlej Link Project (Unit I) and Pong Dam Project on the Beas river (Unit II) including-

(i) Beas-Sutlej Link Project (Unit I) comprising-

(a) Pandoh Dam and works appurtenant thereto,

(b) Pandoh-Baggi Tunnel,

(c) Sundernagar Hydrel Channel,

(d) Sundernagar-Sutlej Tunnel,

(e) By-pass Tunnel,

(f) four generating units each of 165 M.W. capacity at Dehar Power House on the right side of Sutlej river,

(g) fifth generating unit of 120 M.W. capacity at Bhakra Right Bank Power House,

(h) transmission lines,

(i) Balancing Reservoir;

(ii) Pong Dam Project (Unit II) comprising-

(a) Pong Dam and works appurtenant thereto,

(b) Outlet Works,

(c) Penstock Tunnels,

(d) Power plant with four generating units of 60 M.W. each;


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(iii) such other works as are ancillary to the works aforesaid and are of common interest to more than one State;

(B) "Bhakra-Nangal Project" means-

(i) Bhakra Dam, Reservoir and works appurtenant thereto;

(ii) Nangal Dam and Nangal-Hydel Channel;

(iii) Bhakra Main Line and canal system;

(iv) Bhakra Left Bank Power House, Ganguwal Power House and Kotla Power House, switchyards, sub-stations and transmission lines;

(v) Bhakra Right Bank Power House with four units of 120 M.W. each.

79. Bhakra Management Board

(1) The Central Government shall constitute a Board to be called the Bhakra Management Board for the administration, maintenance and operation of the following works, namely:-

(a) Bhakra Dam and Reservoir and works appurtenant thereto;

(b) Nangal Dam and Nangal-Hydel Channel up to Kotla Power House;

(c) the irrigation headworks at Rupar, Harike and Ferozepur;

(d) Bhakra Power Houses:

Provided that the administration, maintenance and operation by the said Board of the generating units of the Right Bank Power House as have not been commissioned shall commence as and when any such unit has been commissioned;

(e) Ganguwal and Kotla Power Houses;

(f) Sub-stations at Ganguwal, Ambala, Panipat, Delhi, Ludhiana, Sangrur and Hissar and the main 220 KV transmission lines connecting the said sub-stations with the power stations specified in clauses (d) and (e); and

(g) such other works as the Central Government may, by notification in the Official Gazette, specify.

(2) The Bhakra Management Board shall consist of-

(a) a whole-time Chairman and two whole-time members to be appointed by the Central Government;


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(b) a representative each of the Governments of the States of Punjab, Haryana and Rajasthan and the Union territory of Himachal Pradesh to be nominated by the respective Governments or Administrator, as the case may be;

(c) two representatives of the Central Government to be nominated by that Government.

(3) The functions of the Bhakra Management Board shall include-

(a) the regulation of the supply of water from the Bhakra-Nangal Project to the States of Haryana, Punjab and Rajasthan having regard to-

(i) any agreement entered into or arrangement made between the Governments of the existing State of Punjab and the State of Rajasthan, and

(ii) the agreement or the order referred to in sub-section (1) of section 78;

(b) the regulation of the supply of power generated at the power houses referred to in sub-section (1) to any Electricity Board or other authority in charge of the distribution of power having regard to-

(i) any agreement entered into or arrangement made between the Governments of the existing State of Punjab and the State of Rajasthan,

(ii) the agreement or the order referred to in sub-section (1) of section 78; and

(iii) any agreement entered into or arrangement made by the existing State of Punjab or the Punjab Electricity Board or the State of Rajasthan or the Rajasthan Electricity Board with any other Electricity Board or authority in charge of distribution of power before the appointed day in relation to the supply of power generated at the power houses specified in sub-section (1) (c) the construction of such of the remaining works connected with the Right Bank Power House as the Central Government may specify;

(d) such other functions as the Central Government may, after consultation with the Governments of the States of Haryana, Punjab and Rajasthan, entrust to it.

(4) The Bhakra Management Board may employ such staff as it may consider necessary for the efficient discharge of its functions under this Act:

Provided that every person who immediately before the constitution of the said Board was engaged in the construction, maintenance or operation of the works in sub-section (1) shall continue to be so employed under the Board in connection with the said works on the same terms and conditions of service as were applicable to him before such constitution until the Central Government by order directs otherwise:

Provided further that the said Board may at any time in consultation with State Government or the Electricity Board concerned and with the previous approval of the Central Government return any such person for service under that Government or Board.

(5) The Governments of the successor States and of Rajasthan shall at all times provide the necessary funds to the Bhakra Management Board to meet all expenses (including the salaries and allowances of the staff) required for the discharge of its functions and such amounts shall be apportioned among the successor States, the State of Rajasthan and Electricity Boards of the said States in such proportion as the Central Government may, having regard to the benefits to each of the said States or Boards, specify.

(6) The Bhakra Management Board shall be under the control of the Central Government and shall comply with such directions, as may from time to time, be given to it by that Government.

(7) The Bhakra Management Board may with the approval of the Central Government delegate such of its powers, functions and duties as it may deem fit to the Chairman of the said Board or to any officer subordinate to the Board.

(8) The Central Government may, for the purpose of enabling the Bhakra Management Board to function effectively, issue such directions to the State Governments of Haryana, Punjab and Rajasthan and the Administrator of the Union territory of Himachal Pradesh or any other authority, and the State Governments, Administrator or authority shall comply with such directions.

(9) The Bhakra Management Board may, with the previous approval of the Central Government and by notification in the Official Gazette, make regulations consistent with this Act and the rules made thereunder, to provide for-

(a) regulating the time and place of meetings of the Board and the procedure to be followed for the transaction of business at such meetings;


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(b) delegation of powers and duties to the Chairman or any officer of the Board;

(c) the appointment, and the regulation of the conditions of service, of the officers and other staff of the Board;

(d) any other matter for which regulations are considered necessary by the Board."

80. Construction of Beas Project. (1) Notwithstanding anything contained in this Act or in any other law, the construction (including the completion of any work already commenced) of the Beas Project shall, on and from the appointed day, be undertaken by the Central Government on behalf of the successor States and the State of Rajasthan:

Provided that the Governments of the successor States and the State of Rajasthan shall at all times provide the necessary funds to the Central Government for the expenditure on the project [including the expenses of the Board referred to in sub-section (2)] and such amounts shall be apportioned among the successor States and the State of Rajasthan in such proportion as may be fixed by the Central Government after consultation with the Governments of the said States.

(2) For the discharge of its functions under sub-section (1), the Central Government may-

(a) by notification in the Official Gazette and in consultation with the Governments of the successor States and the State of Rajasthan, constitute a Board to be called the Beas Construction Board with such members as it may deem fit and assign to the Board such functions as it may consider necessary; and

(b) issue such directions to the State Governments of Haryana, Punjab and Rajasthan and the Administrator of the Union territory of Himachal Pradesh or any other authority, and the State Governments, Administrator or other authority shall comply with such directions.

(3) The notification constituting a Board under clause (a) of sub-section (2) may empower the Board to appoint such staff as may be necessary for the efficient discharge of its functions:


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Provided that every person who immediately before the constitution of the Board was engaged in the construction or any work relating to the Beas Project shall continue to be so employed by the Board in connection with the said works on the same terms and conditions of service as were applicable to him before such constitution until the Central Government by order directs otherwise:

Provided further that the Board may at any time in consultation with the State Government or the Electricity Board concerned and with the previous approval of the Central Government return any such person for service under that Government or Board.

(4) Nothing contained in this section shall be construed as enabling the Central Government to reduce or enlarge the scope of the Beas Project as agreed to between the Governments of the State of Rajasthan and the existing State of Punjab except after consultation with the Governments of the States of Haryana, Punjab and Rajasthan.

(5) Any component of the Beas Project in relation to which the construction has been completed after the appointed day may be transferred by the Central Government to the Board constituted under section 79 whereupon the provisions of that section shall apply as if it were a work included in sub-section (1) of that section.

(6) The Bhakra Management Board constituted under Section 79 shall be re-named as the Bhakra Beas Management Board when any of the components of the Beas Project has been transferred under sub-section (5), and the Beas Construction Board shall cease to exist when all the components of the Beas Project have been so transferred."

(Emphasis Supplied)

A copy of the Punjab Re-organisation Act, 1966 is attached hereto and marked as **Annexure 'B'**.

- 13.** In terms of the above-mentioned provisions of the Punjab Re-organisation Act, 1966 the main features of the formation and working of BBMB are as under:


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- i) BBMB is only a manager of the participating States and their respective power utilities to manage, maintain, operate the Transmission Lines and assets as provided in Sections 78 to 80 of the Punjab Re-organisation Act, 1966;
- ii) As per Sections 78 to 80 of the Punjab Re-organisation Act, the ownership of the Transmission Assets are with the participating/partner states and have not been given to BBMB;
- iii) The ownership of the assets was vested in the erstwhile combined State of Punjab and in terms of the above provisions of the Punjab Re-organisation Act came to be vested in the successor participating States and in some respects in the State of Rajasthan by operation of law;
- iv) The electricity boards/ entities of the above participating States have been recognised as the beneficiaries of the electricity transmitted through these Transmission Lines and assets managed by BBMB;
- v) BBMB only acts as an operator for and on behalf of the participating/partner States. The ownership in the electricity generated vests in the participating States in a fixed proportion as agreed in the historical agreements/determined by the Central Government. The ownership in the electricity generated does not vest in BBMB;
- vi) BBMB does not therefore generate and supply electricity to the participating States on a principal to principal basis but only as an manager of the participating states;


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- vii) BBMB has no financial risk attached to its working. All expenses are paid by the participating States as provided in Section 79 (5) of the Re-organisation Act;
 - viii) There is no concept of return on equity or interest on loan or depreciation or incentive or disincentive etc., which are the basic tariff elements in the case of transmission of electricity;
 - ix) All expenses of BBMB get paid for by the participating states. There is no equity capital contributed by the participating States to BBMB; and;
 - x) Even the consultancy work undertaken by BBMB is with the approval of the Participating States and the revenues earned therefrom is accounted for the benefit of the Participating States;
14. BBMB has a transmission network of 3710.48 ckt-km of 400 kV, 220 kV, 132 kV and 66 kV transmission lines for supply of power to States of Punjab, Rajasthan, Haryana, Himachal Pradesh, Delhi and Union Territory of Chandigarh.
15. Particulars of the transmission lines of Bhakra-Nangal project and Beas project, and date of commissioning of transmission lines operated by BBMB is summarized in the following table:

Table 1: Details regarding Bhakra Transmission System

BHAKRA TRANSMISSION SYSTEM (A)				
Sr. No.	Name of the Transmission	Voltage Level (kV)	Line Length (Ckt. KMs)	Date of Commercial Operation
1	220 kV R/Road- Narela Ckt.-I &II	220 kV	44.00	1967/1977
2	220 kV Panipat - Narela Ckt.-I &II	220 kV	113.80	1967/1977

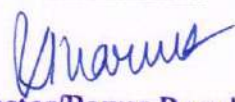

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BHAKRA TRANSMISSION SYSTEM (A)				
Sr. No.	Name of the Transmission	Voltage Level (kV)	Line Length (Ckt. KMs)	Date of Commercial Operation
3	220 kV Panipat - Dhulkote Ckt.-I &II	220 kV	251.68	1978
4	220 kV Pong- Dasuya Ckt.IV	220 kV	39.54	01.03.1984
5	220 kV Jalandhar- Dasuya Ckt.IV	220 kV	57.26	15.02.1998
6	220 kV Bhakra-Jamalpur I&II	220 kV	172.80	18.12.1968
7	220 kV Jamalpur-Sangrur I&II	220 kV	156.00	03.01.1969
8	220 kV Jamalpur-Jalandhar I & II	220 kV	128.00	19.12.1969 16.10.1969
9	220 kV Pong- Jalandhar I & II	220 kV	195.00	30.06.1978/26.01.1978
10	220 kV Ganguwal-Dhulkote I & II	220 kV	224.00	25.11.1962
11	132 kV Ganguwal-Kotla I & II	132 kV	21.72	23.05.1956
12	66 kV Dhulkote-Chandigarh	66 kV	90.00	02.01.1955/17.03.1967
13	220 kV Bhiwani -Hissar Circuit I&II	220 kV	115.90	1970/1976
14	220 kV Bhiwani -Dadri Circuit I&II	220 kV	72.90	1977/1980
15	220 kV Hissar -Sangrur I&II	220 kV	278.00	23.02.1969
16	220 kV Bhakra (Left)-Ganguwal I&II	220 kV	42.00	08.11.1961

BHAKRA TRANSMISSION SYSTEM (A)				
Sr. No.	Name of the Transmission	Voltage Level (kV)	Line Length (Ckt. KMs)	Date of Commercial Operation
17	220 kV Bhakra (Left)-Ganguwal III	220 kV	22.00	05.08.1980
18	220 kV Bhakra (Right)-Ganguwal IV&V	220 kV	44.00	07.11.1966 24.05.1966
19	66 kV Bhakra (Left)-NFL I&II	66 kV	17.00	05.12.1960
20	66 kV Bhakra(Left)-NFL III	66 kV	8.50	05.12.1960
Total (Bhakra Transmission System)			2094.10 Ckt. Km	

Table 2: Details regarding Beas Transmission System

BEAS TRANSMISSION SYSTEM (B)				
Sr. No.	Name of the Transmission Line	Voltage Level	Line Length (Ckt. Kms.)	Date of Commercial Operation
1	400 kV S/C Dehar-Panipat (Liloed at Panchkula)	400 kV	261.80	12.06.1979
2	400 kV S/C Dehar--Bhiwani (Liloed at Rajpura)	400 kV	312.15	21.01.1990
3	220 kV Panipat- Narela Ckt.-III	220 kV	58.00	02.07.1979
4	220 KV Bhiwani -Dadri Circuit III&IV	220 kV	69.40	1990
5	220 kV KKTRA- Panipat S/C	220 kV	77.08	1978
6	220 kV Panipat -Dadri S/C	220 kV	115.00	25.06.1979


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BEAS TRANSMISSION SYSTEM (B)				
Sr. No.	Name of the Transmission Line	Voltage Level	Line Length (Ckt. Kms.)	Date of Commercial Operation
7	220 kV Samaypur-Ballabgarh D/Ckt.	220 kV	8.46	09.04.1989/31.03.1989
8	220 kV Ballabgarh-BTPS D/Ckt.	220 kV	49.46	17.11.1968/03.05.1971
9	220 kV S/Pur- B/Garh Ckt.III	220 kV	5.50	25.05.1988
10	220 kV Dadri- B/Garh Ckt.	220 kV	119.90	25.01.1976
11	220 kV Dadri- S/Pur Ckt.	220 kV	116.40	25.05.1988
12	220 kV Sangrur-Barnala	220 kV	38.14	15.07.1976
13	220 kV Barnala-Lehra Mohabbat	220 kV	38.56	15.07.1976
14	220 kV Lehra Mohabbat-Bhatinda	220 kV	27.58	15.07.1976
15	220 kV Ganguwal-Jagadhri	220 kV	158.65	01.01.1978
16	220 kV Dehar- Ganguwal I&II	220 kV	112.00	1977
17	220 kV Jagadhri-Kurukshetra	220 kV	48.30	01.01.1978
Total			1616.38 Ckt. Km	

16. In the above circumstances, BBMB had not been maintaining gross block of assets in its books in the past and no capital expenditure including any additional capitalisation takes place in the books of BBMB. All such capital expenditure are to the account of the participating/partner states only.


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17. In the premise, the units of electricity generated and transmitted from the generation and transmission facilities operated and managed by BBMB vest in the participating States from the beginning.
18. Accordingly, there has never been any capital investment in the books of BBMB in any of the assets. The capital assets were created by the beneficiary States and have been given under the possession and control of BBMB only for the purpose of operation and maintenance. Any additional capitalisation required for the Projects including any renovation and modernisation scheme and other up-gradation scheme are also funded by the beneficiary States.
19. BBMB respectfully submits that the tariff elements specified in the Tariff Regulations, 2024 in regard to the Capacity Charges, namely, the Return on Equity, Depreciation, Interest on Working Capital etc. which are related to the capital assets or borrowings have no application to BBMB.
20. BBMB does not own any capital assets, it does not borrow loan or funding from any banks, financial institutions or others, there is no repayment of loan or servicing of interest on loan. There is no equity investments by the share holders of the partner States in the BBMB and, therefore, none of these tariff elements have any bearing on the activities of BBMB.
21. BBMB cannot therefore be treated as the owner of the Transmission Assets and, therefore, there is no need for determination of the other tariff elements, namely, interest on loan, return on equity, depreciation, interest on working capital, incentive or disincentive, tax reimbursement or post-tax return etc. BBMB therefore cannot per-se seek any tariff determination in respect of the above tariff elements.


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22. Thus, on consideration of the provisions of the Punjab Re-organisation Act, 1966 the only element which would be applicable to BBMB is the Operation and Maintenance Expenses. Even in regard to O&M Expenses, Regulation 36 of the Tariff Regulations, 2024 specifically states in the Proviso that the provisions of the Punjab Re-organisation Act, 1966 will be taken into consideration.
23. In this regard also, all the expenses of BBMB are being paid by the partner States/State Utilities, including the working capital requirements, the additional capital expenditure, R,M&U expenditure etc., In addition to O&M expenditure, additional capital expenditure, upgradation, R,M&U expenditure may also be allowed to be recovered from partner States as per provisions of Punjab Re-organisation Act, 1966.
24. BBMB submits that the obligation of the partner States to contribute to the expenditure incurred by BBMB from time to time will continue in terms of the provisions of the Punjab Re-organisation Act, 1966 since BBMB is only a statutory body to undertake activities of generation and transmission of electricity for and on behalf of the partner States/State Utilities. In their status as principal, partner States/State Utilities have to bear such expenses of BBMB.
25. In the circumstances mentioned above, BBMB submits that most of the information required under the Tariff Regulations, 2024, particularly, those related to Regulation 15, 30, 31, 32, 33, 34 and related Regulations and the filing format being Form 1 (barring the O&M expenses), 3 to 15 will have no application to BBMB. In regard to O&M expenditure, BBMB is giving the actual O&M expenditure of Bhakra & Beas Transmission system from FY 2019-20 to FY 2023-24, as filed herewith as **Annexure 'C'**.


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26. It is submitted that BBMB had, pursuant to the directions contained in the Orders passed by this Hon'ble Commission in regard to the previous control period, assimilated financial details of BBMB operation. These include the statement of expenditure incurred by BBMB during the control period 01.4.2019 to 31.03.2024 and the corresponding remittance made by the partner States/State Utilities to meet the expenditure. The statement of receipt and payment of BBMB for the financial years 2019-24 is filed herewith as **Annexure 'D'**.

STATE LOAD DISPATCH CENTRE CHARGES

27. The Petitioner also undertakes the functions of the State Load Dispatch Centre (SLDC) in respect of its generating station and dispatches power on the transmission system of the Petitioner.
28. The Petitioner's SLDC, with the associated communication system facilities, was established under the Composite Unified Scheme (ULDC Phase-I) of the Power Grid Corporation of India (PGCIL). The capital investment for setting up the SCADA equipment under ULDC scheme was incurred by PGCIL. Therefore, it was agreed with the partner states that the ULDC charges and Annual Maintenance Charge (AMC) for SCADA equipment installed under ULDC scheme shall be paid by the partner states directly to PGCIL.
29. However, there are certain assets such as computer and IT equipment, plant and machinery, office equipment, vehicles etc. which form part of the SLDC's assets in the BBMB. Also, expenses pertaining to the establishment cost (employee expenses) and some A&G and R&M expenses are being borne by BBMB for which demand is raised to the partner states in line with that of generation and transmission charges.


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30. The Petitioner is therefore, also including the prayer for reimbursement of the fees and charges for discharging system operation functions as per the CERC (Fees and Charges of RLDC and other related matters) Regulations, 2024. As stated earlier, the State beneficiaries will continue to pay the ULDC & AMC charges directly to PGCIL. Accordingly, no claim on ULDC & AMC charges are being made by the Petitioner.
31. The head wise details of the actual operation and maintenance expenses carried out by the Petitioner in its capacity as a SLDC for the FY 2019-20 to FY 2023-24 has been submitted as **Annexure 'E'**.

RECOVERY OF TARIFF FROM THE PARTNER STATES:

32. As mentioned hereinabove, BBMB has been undertaking its statutory functions as specified under the relevant provisions of the Punjab Re-Organization Act 1966. Section 79 (5) of the Punjab Re-Organization Act 1966 specified that:

"(5) The Governments of the successor States and of Rajasthan shall at all times provide the necessary funds to the Bhakra Management Board to meet all expenses (including the salaries and allowances of the staff) required for the discharge of its functions and such amounts shall be apportioned among the successor States, the State of Rajasthan and Electricity Boards of the said States in such proportion as the Central Government may, having regard to the benefits to each of the said States or Boards, specify."

33. Section 80 of the Punjab Re-Organization Act 1966 provided for the methodology for provision of funds for construction of the Beas Projects and the transfer of all components of Beas projects to the Bhakra Beas Management Board (BBMB) on completion of Beas projects.
34. Section 97 of the Punjab Re-Organization Act 1966 provides for the Central Government to notify the rules specifying the methodology for preparation

and approval of budget estimates of BBMB and the recovery of expenses incurred by the BBMB. The provisions of the Companies Act, 2013 has no application to BBMB.

35. In line with the provisions of the Punjab Re-Organization Act 1966 the Ministry of Power, Government of India vide various notifications issued from time to time specified the methodology for apportionment of expenses incurred by each of the projects under BBMB amongst the successor states. Copies of these notifications have been attached **Annexure 'F' (colly)**. The methodology for such apportionment is summarized below:

Sharing of Partner States and Power Utilities in BBMB Projects – Power Wing

Project Name	PSPCL	HVPNL	RRVPNL	HPSEBL	U.T Chd.
Bhakra Power Plant	51.8% (after deduct share of Rajasthan)	37.51% (after deduct share of Rajasthan)	15.22%	7.19% (after deduct share of Rajasthan)	3.5% (after deduct share of Rajasthan)
Dehar Power Plant	51.8% (after deduct share of Rajasthan)	37.51% (after deduct share of Rajasthan)	20%	7.19% (after deduct share of Rajasthan)	3.5% (after deduct share of Rajasthan)
Pong Power Plant	51.8% (after deduct share of Rajasthan)	37.51% (after deduct share of Rajasthan)	58.50%	7.19% (after deduct share of Rajasthan)	3.5% (after deduct share of Rajasthan)
Bhakra Transmission Line	51.8%	37.51%	15.22%	7.19%	3.5%


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Project Name	PSPCL	HVPNL	RRVNL	HPSEBL	U.T Chd.
	(after deduct share of Rajasthan)	(after deduct share of Rajasthan)		(after deduct share of Rajasthan)	(after deduct share of Rajasthan)
Beas Transmission Line	28.72% (after deduct share of Rajasthan)	60.59% (after deduct share of Rajasthan)	23.8%	7.19% (after deduct share of Rajasthan)	3.5% (after deduct share of Rajasthan)

Sharing of Partner States and Power Utilities in BBMB Projects – Irrigation Wing

Project Name	Punjab	Haryana	Rajasthan
Bhakra Unit- I	60% (after deduct share of Rajasthan)	40% (after deduct share of Rajasthan)	15.22%
Bhakra Unit- II & III	60% (after deduct share of Rajasthan)	40% (after deduct share of Rajasthan)	19.06%
BSL, Sunder Nagar	51%	34%	15%
Pong Dam, Talwara	24.9%	16.9%	58.5%

36. Accordingly, BBMB raises demand notes (copies attached **at Annexure 'G' colly**) with respect to the O&M charges (both Power Wing & Irrigation wing) in the respective share of partner power utilities/ States as follows.


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- (a) In the power wing, demand note on the basis of net actual expenditure i.e. O&M expenses including salary, transfer to and from IW, capital expenditure chargeable to Revenue plus difference of one month budget minus revenue received from common pool consumers attributable to the respective State Power Utilities are raised monthly in their respective share ratio; and
- (b) In Irrigation-wing, the demand for release of funds from Partner State Governments are raised quarterly on the basis of the approved annual budget in their respective share ratio.
37. It is submitted that major capital works such as RM&U works once approved by the Board of the BBMB are financed by the partner states as per the respective sharing ratios.
38. Further, the respective State Electricity Regulatory Commissions of the Partner States duly consider the expenditure incurred by the State Power Utilities in line with their share in BBMB in their respective Aggregate Revenue Requirement (ARR)s.
39. BBMB prays to the Commission to approve this methodology for recovery of tariff from partner states so as to continue the efficient and commercially viable operation of the Transmission System managed by the BBMB.

40. **PRAYER:**

It is, therefore, respectfully prayed that this Hon'ble Commission may be pleased to:

- (a) Admit the petition;


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- (b) Direct that the BBMB shall be entitled to operate the Transmission System in terms of the provisions of the Punjab Re-organisation Act, 1966 and shall be allowed to recover O&M expenditure, additional capital expenditure, R,M&U expenditure from partner States based on the statement of receipt and payment settled between BBMB and the Partner States/State Utilities.
- (c) Direct that the BBMB shall be entitled to operate the SLDC System in terms of the provisions of the Punjab Re-organisation Act, 1966 and shall be allowed to recover O&M expenditure, additional capital expenditure, RM&U expenditure from partner States based on the statement of receipt and payment settled between BBMB and the Partner States/State Utilities.
- (d) Relax the requirement to pay the court fees on the petition in view of the nature of the petition not involving detailed tariff determination in the peculiar circumstances of BBMB being governed by the provisions of the Punjab Re-organisation Act, 1966; and
- (e) Pass such further order or orders as this Hon'ble Commission may deem just and proper in the circumstances of the case.

THROUGH



PETITIONER

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ADVOCATE

Place: CHANDIGARH

Dated: 26.11.2024

PART-III

**Checklist of Forms and other information/ documents for tariff filing
for Transmission System& Communication System**

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 1	Summary of Tariff	NA
FORM- 1A	Summary of Asset level cost	NA
FORM-2	Details of Transmission Lines and Substations and Communication System covered in the project scope and O&M for instant asset	YES
FORM-3	Normative parameters considered for tariff computations	NA
FORM- 4	Abstract of existing transmission assets/elements under project, Determination of Effective COD and Weighted Average Life for single AFC for the project as whole.	NA
FORM- 4A	Statement of Capital cost	NA
FORM- 4B	Statement of Capital Works in Progress	NA
FORM- 4C	Abstract of Capital Cost Estimates and Schedule of Commissioning for the New Project/Element	NA
FORM-5	Element wise Break-up of Project/Asset/Element Cost for Transmission System or Communication System	NA
FORM-5A	Break-up of Construction/Supply/Service packages	NA
FORM-5B	Details of all the assets covered in the project	NA
FORM- 6	Actual Cash Expenditure and Financial Package up to COD	NA
FORM- 7	Statement of Additional Capitalisation after COD	NA
FORM- 7A	Financing of Additional Capitalisation	NA
FORM- 7B	Statement of Additional Capitalisation during five year before the end of the useful life of the project.	NA
FORM- 8	Calculation of Return on Equity	NA
FORM-8A	Details of Foreign Equity	NA
FORM-9	Details of Allocation of corporate loans to various transmission elements	NA
FORM-9A	Details of Project Specific Loans	NA
FORM-9B	Details of Foreign loans	NA
FORM-9C	Calculation of Weighted Average Rate of Interest on Actual Loans	NA

FORM-9D	Loans in Foreign Currency	NA
FORM-9E	Calculation of Interest on Normative Loan	NA
FORM- 10	Calculation of Depreciation Rate on original project cost	NA

Form No.	Title of Tariff Filing Forms (Transmission& Communication System)	Tick
FORM- 10A	Statement of Depreciation	NA
FORM- 10B	Statement of De-capitalisation	NA
FORM- 11	Calculation of Interest on Working Capital	NA
FORM- 12	Details of time over run	NA
FORM- 12A	Incidental Expenditure during Construction	NA
FORM- 12B	Calculation of IDC & Financing Charges	NA
FORM- 13	Details of Initial spares	NA
FORM- 14	Non-Tariff Income	NA
FORM- 15	Summary of issue involved in the petition	YES
FORM A	Summary of Capital Cost & Annual Fixed Cost (AFC) Claimed for ALL the assets covered in the present petition.	NA

Other Information/ Documents

S. No.	Information/Document	Tick
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Project(s) setup by a company making tariff application for the first time to CERC)	NA
2	Region wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & Annexure for the new Transmission System & Communication System for the relevant years.	NA
3	Copies of relevant loan Agreements	NA
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA
6	Copies of the BPTA/TSA/PPA with the beneficiaries, if any	NA


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7	Detailed note giving reasons of cost and time over run, if applicable. List of supporting documents to be submitted: a. Detailed Project Report b. CPM Analysis c. PERT Chart and Bar Chart d. Justification for cost and time Overrun	NA
8	Transmission Licensee shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the transmission system as submitted to the Govt. of India for first two years i.e. 2024-25 and 2025-26 at the time of mid-term true-up in 2026/27 and for balance period of tariff period 2024-29 at the time of final	NA
Form No.	Title of Tariff Filing Forms (Transmission & Communication System)	Tick
	true-up in 2029-30. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA
9.	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify formats suitably as per available information to them for submission of required information for tariff purpose.	YES
10.	Any other relevant information, (Please specify)	NA

Note 1: Electronic copy of the petition (in words format) and detailed calculation as per these formats (in excel format) and any other information submitted has to be uploaded in the e-filing website and shall also be furnished in pen drive/flash drive.


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PART-III

FORM-2

Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the Transmission Asset: Transmission System Administration

1. Bhakra Transmission Lines

Sr. No.	Name of Line	Type of Line AC/HV DC	S/C or D/C	No. of Sub- Conductors	Voltage Level kV	Line Bays	Line Reactor (Including Switchable Reactor)	Line length km	Date of Commercial Operation	Covered in the present Petition	
										Yes/No	If No, Petition No.
1.	220 kV Panipat-Dhulkote Line I & II	AC	D/C	1	220	NA	NA	251.68	1978	Yes	
2.	220 kV Rohtak Road-Narela I & II	AC	D/C	1	220	NA	NA	44.00	1967/1977	Yes	
3.	220 kV Panipat-Narela I&II	AC	D/C	1	220	NA	NA	113.80	1967/1977	Yes	
4.	220 kV Bhiwani-Hisar I&II	AC	D/C	2	220	NA	NA	115.90	1970/1976	Yes	
5.	220 kV Bhiwani-Dadri I&II	AC	D/C	2	220	NA	NA	72.90	1977/1980	Yes	
6.	220 kV Hisar-Sangrur I&II	AC	D/C	1	220	NA	NA	278.00	23.02.1969	Yes	
7.	220 kV Jamalpur-Bhakra I&II	AC	D/C	2	220	NA	NA	172.80	18.12.1968	Yes	
8.	220 kV Jamalpur-Sangrur I&II	AC	D/C	2	220	NA	NA	156.00	03.01.1969	Yes	
9.	220 kV Jalandhar-Pong I&II	AC	D/C	1	220	NA	NA	195.00	30.06.1978 26.01.1978	Yes	
10.	220 kV Jalandhar-Jamalpur I&II	AC	D/C	1	220	NA	NA	128.00	19.12.1969 16.10.1969	Yes	
1.	220 kV Jalandhar-Dasuya IV	AC	S/C	1	220	NA	NA	57.26	15.02.1998	Yes	
2.	220 kV Pong-Dasuya IV	AC	S/C	1	220	NA	NA	39.54	01.03.1984	Yes	

Sr. No.	Name of Line	Type of Line AC/HV DC	S/C or D/C	No. of Sub-Conductors	Voltage Level kV	Line Bays	Line Reactor (Including Switchable Reactor)	Line length km	Date of Commercial Operation	Covered in the present Petition	
										Yes/No	If No, Petition No.
13.	220 kV Ganguwal-Dhulkote I & II	AC	D/C	1	220	NA	NA	224.00	25.11.1962	Yes	
14.	132 kV Ganguwal-Kotla I & II	AC	D/C	1	132	NA	NA	21.72	23.05.1956	Yes	
15.	66 kV Dhulkote-Chandigarh I & II	AC	D/C	1	66	NA	NA	90.00	02.01.1955 17.03.1967	Yes	
16.	220 kV Bhakra (Left)- Ganguwal I & II	AC	D/C	1	220	NA	NA	42	08.11.1961	Yes	
17.	220 kV Bhakra (Left)- Ganguwal III	AC	S/C	1	220	NA	NA	22	05.08.1980	Yes	
18.	220 kV Bhakra (Right)- Ganguwal IV & V	AC	D/C	1	220	NA	NA	44	07.11.1966 24.05.1966	Yes	
19.	66 kV Bhakra (Left)-NFL I & II	AC	D/C	1	66	NA	NA	17	05.12.1960	Yes	
20.	66 kV Bhakra(Left)-NFL III	AC	S/C	1	66	NA	NA	8.5	05.12.1960	Yes	
								2094.10			


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FORM-2

Details of Transmission Lines, Substations and Communication System covered in the project scope and O&M for instant asset

Name of the Transmission Asset: **Transmission System Administration**

2. Beas Transmission Lines:

Sr. No.	Name of Line	Type of Line AC/HV DC	S/C or D/C	No. of Sub-Conductors	Voltage Level kV	Line Bays	Line Reactor (Including Switchable Reactor)	Line length km	Date of Commercial Operation	Covered in the present Petition	
										Yes/No	If No, Petition No.
1.	400 kV Dehar-Panchkula-Panipat	AC	S/C	2	400	NA	NA	261.80	12.06.1979	Yes	
2.	400 kV Dehar-Rajpura-Bhiwani	AC	S/C	2	400	NA	NA	312.15	21.01.1990	Yes	
3.	220 kV Panipat-Ch Dadri	AC	S/C	1	220	NA	NA	115.00	25.06.1979	Yes	
4.	220 kV Kurukshetra-Panipat	AC	S/C	1	220	NA	NA	77.08	1978	Yes	
5.	220 kV Panipat -Narela III	AC	S/C	1	220	NA	NA	58.00	02.07.1979	Yes	
6.	220 kV Bhiwani-Dadri III & IV	AC	D/C	2	220	NA	NA	69.40	1990	Yes	
7.	220 kV Ballabhgarh-Samaypur I&II	AC	D/C	1	220	NA	NA	8.46	09.04.1989 31.03.1989	Yes	
8.	220 kV Ballabhgarh-Samaypur III	AC	S/C	1	220	NA	NA	5.5	25.05.1988	Yes	
9.	220 kV Ballabhgarh-Dadri	AC	S/C	1	220	NA	NA	119.90	25.01.1976	Yes	
10.	220 kV Samaypur-Dadri	AC	S/C	1	220	NA	NA	116.40	25.05.1988	Yes	
11.	220 kV Ballabhgarh-BTPS I&II	AC	S/C	1	220	NA	NA	49.46	17.11.1968 03.05.1971	Yes	
12.	220 kV Sangrur-Barnala	AC	S/C	1	220	NA	NA	38.14	15.07.1976	Yes	
13.	220 kV Barnala-Lehra Mohabbat	AC	S/C	1	220	NA	NA	38.56	15.07.1976	Yes	
14.	220 kV Lehra-Mohabbat Bathinda	AC	S/C	1	220	NA	NA	27.58	15.07.1976	Yes	
15.	220 kV Ganguwal-Jagadhari	AC	S/C	1	220	NA	NA	158.65	01.01.1978	Yes	

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16.	220 kV Jagadhari-Kurukshetra	AC	S/C	1	220	NA	NA	48.30	01.01.1978	Yes	
17.	220 kV Dehar-Ganguwal I&II	AC	D/C	1	220	NA	NA	112.00	1977	Yes	
								1616.38			


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1. BHAKRA SUBSTATIONS

Sr. No.	Name of Substation	Type of Substation (Conventional/ Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, Petition No.
1.	220 kV Substation Ballabgarh	Conventional	220 kV	220/66kV 100 MVA T/F (2 Nos). 66/33kV, 20MVA T/F (1 No.) 66/33kV, (12.5/16MVA (1 No.) 33/11kV 2MVA (1 No.) 33/0.4kV 0.2 MVA (1 No.)	-	-	9	18	-	-	200	38.2	17.11.1968	Yes	-
2.	220 kV Substation Samaypur	Conventional	220 kV	NIL	-	-	11	-	-	-	-	-	1988	Yes	-
3.	220 kV substation, Hisar	Conventional	220 kV	200/132kV 100 MVA- 3 Nos. 132/33 kV 25 MVA - 3 Nos. 33/11 kV 2 MVA- 2 Nos.	-	-	12	33	-	-	300	79	23.02.1969	Yes	-
4.	220 kV S/S Jamalpur	Conventional	220 kV	<u>Transformers</u> 220/132 kV 100 MVA (3 Nos.) 220/ 66 kV, 100 MVA (2 Nos.) 220/66 kV 160 MVA (1 No.) 66/ 11 kV, 10/12.5 MVA (2 Nos.) <u>Capacitor Banks</u> 132 kV 31.16 MVAR (1 No.) 66 kV 19.64 MVAR (1 No.)	-	-	19	34	-	-	660	25	18.11.1968	Yes	-
5.	220 kV Substation Jalandhar	Conventional	220kV	<u>Transformers</u> 220/132 kV 90 MVA (1 Nos.) 220/132 kV 100 MVA (3 Nos.)	-	-	16	35	-	-	590 Note: 1 No.	19.4	16.10.1969	Yes	-


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Sr. No.	Name of Substation	Type of Substation (Conventional/ (Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, Petition No.
				220/ 66 kV 100 MVA (2 Nos.) 66/ 11 kV 10/12.5 MVA (1 No.) 66/33/11 kV 6/3/3 MVA (1 No.) 11/0.4 kV, 250 kVA (2 Nos.) 11/0.4 kV, 400 kVA (1 No.) <u>Capacitor Banks</u> 132 kV 31.16 MVAR (1 No.) 66 kV 19.64 MVAR (1 No.)							220/132 kV 2 kV 90 MVA T/F is lying as spare T/F				
6.	220 kV Substation Sangrur	Conventional	220 kV	220/66 100 MVA (1 No.) 220/66 60 MVA (3 No.) 66/11KV, 10/12.5 MVA (1 No.) 66/11KV, 12.5/16 MVA (1 No.) <u>Capacitor Banks</u> 66 kV 19.64 MVAR (2 Nos.) 11 kV 6 MVAR (1 No.)	-	-	10	33	-	-	280	28.50	1968	Yes	


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Sr. No.	Name of Substation	Type of Substation (Conventional/ Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/ No	If No, Petition No.
7.	220 kV Substation Dhulkote	Conventional	220 kV	<u>Transformers</u> 220/66 KV 70/85/100 MVA (2 Nos.) 66/33KV 16/20 MVA (1 No.) 66 / 11KV 10/12.50 MVA (2 Nos.) 11/0.4 KVA 100 KVA (2 Nos.) 11/0.4 KVA 250 KVA (1 No.) <u>Capacitor Bank</u> 66 KV 20.35 MVAR (2 Nos.) 11 KV 4.8 MVAR (1 No.)	-	-	6	36	-	-	200	45.00	1955	Yes	
8.	66 kV Substation Chandigarh	Conventional	66 kV	<u>Transformer</u> 66/33 KV, 20 MVA (2 Nos.) 66/33 KV, 16/20 MVA (1 No.) 66/11 KV, 10/12.5 MVA (1 No.) 66/11KV, 12.5 MVA (1 No.) 66/11KV, 16/20 MVA (1 No.) 11/0.4 KV, 0.2 MVA (2 Nos.) 11/0.4 KV, 0.5 MVA (2 Nos.) <u>Capacitor Banks</u> 33kV 10.00 MVAR (2 Nos.) 11 KV 4.8 MVAR (1 No.)	-	-	0	52	-	-	-	106.4	1955	Yes	

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Sr. No.	Name of Substation	Type of Substation (Conventional/ Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, Petition No.
9.	220 kV Substation, BBMB, Delhi	Conventional	220 kV	220/66 kV 100 MVA - 1 No. 220/33 kV 100 MVA - 3 Nos. 66/33 kV 30 MVA - 1 No. 33/11 kV 2 MVA - 1 No. 33/0.4 kV 200KVA - 1 No. 11/0.4 kV 400 KVA - 1 No. 11/0.4 kV 250 KVA - 1 No.	-	-	7	16	-	-	400	32.85	22.05.1976	Yes	
10.	220kV Substation MISS Ganguwal	Conventional	220kV	Nil	-	-	19	-	-	-	-	-	-	Yes	

NOTE:-

1. Number of bays is inclusive of line bays, ICT bays, reactor bays etc. Each ICT bays, line bays, reactor bays shall be considered separately for purpose of O&M expenses.
2. The MVA Capacity shall exclude the capacity of reactor, FSE, Stat Com


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2. BEAS SUBSTATIONS

Sr. No.	Name of Substation	Type of Substation (Conventional/ Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, Petition No.
1.	220 kV Substation, BBMB, Kurukshetra	Conventional	220 kV	220/132 kV 50 MVA- 1 No. 220/132 kV 45 MVA- 1 Nos. 132/11 kV 16/20 MVA- 2 No. 132/33 kV 11/04 100 KVA- 2 No. 132/33 kV 11/04 250 KVA- 1 No.	-	-	5	15	-	-	95	32.45	1978	Yes	-
2.	400 kV Substation, BBMB Panipat	Conventional	400 kV 220 kV	400/220 kV 150MVA – 3 Nos. 220/132kV 100MVA - 1 No. 220/33 kV 60 MVA- 2 Nos. 132/11kV 4 MVA - 1 No. 33/11 kV 2 MVA - 2 Nos. 11/0.4 kV 500 KVA - 1 No. 11/0.4 kV 400 KVA - 1 No.	-	3	14	27	-	450	220	9.4	19.09.1979	Yes	
3.	220 kV Substation Barnala	Conventional	220kV	Nil	-	-	4	-	-	-	-	-	11.05.1987	Yes	


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Sr. No.	Name of Substation	Type of Substation (Conventional/ Greenfield/ Brownfield)/ GIS/HVDC terminal/ HVDC Back to Back	Voltage level kV	No. of transformers/Reactors/ SVC etc. (with capacity)	No. of Bays				MVA Capacity				Date of Commercial operation	Covered in the present Petition	
					765 kV	400kV	220 kV	132 kV & Below	765 kV	400 kV	220 kV	132 kV & Below		Yes/No	If No, Petition No.
4.	220 kV Substation Jagadhari	Conventional	220 kV	Transformers 220/66 kV 100 MVA (2 Nos.) 220/66 kV 60 MVA (1 Nos.) 66/11 kV 12.5/16 MVA (1 No.) 66/11 kV 10/12.5 MVA (2Nos.) Capacitor Banks 66kV 20.35 MVAR (2 Nos.) 11 kV 2.4 MVAR (2 Nos.)	-	-	5	34	-	-	260	41	1973	Yes	
5.	220kV Substation, BBMB, Narela	Conventional	220 kV 132 kV	220/132 kV 50 MVA (1No.) 132/11 kV 12.5/16 MVA (1 No.) 11/0.4 kV 100kVA- (2Nos.)	-	-	1	10	-	-	50	12.70	05.09.1977	Yes	
6	400 kV Substation BBMB, Bhiwani	Conventional	400 kV	166.7 MVA T/F (2 Nos.) 150 MVA T/F (1 No.) 132/11KV 4MVA T/F (2Nos.) 50MVAR 400kV line reactor (1No.) 50 MVAR 400kV Bus reactor (1No.)	-	4	8	11	-	483.34	-	8	12.09.1988	Yes	
7	220kV Substation, BBMB, Charkhi Dadri	Conventional	220 kV	220/132kV, 100MVA (2 Nos.) 132/11KV 4MVA (1No.)	-	-	9	4	-	-	200	4	18.10.1977	Yes	


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NOTE:

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2. The MVA Capacity shall exclude the capacity of reactor.


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PART-III
FORM- 15

Summary of issue involved in the petition

1. Name of the Petitioner	Bhakra Beas Management Board
2. Petition Category	Transmission
3. Tariff Period	2024-2029
4. Name of the Project	Bhakra & Beas Transmission System & SLDC System
5. Investment Approval date	NA
6. SCOD of the Project	-
7. Actual COD of the project	-
8. Whether entire scope is covered in the present petition	Yes
9. No. of Assets covered in instant petition	-
10. No. of Assets having time over run	-
11. Estimated Project Cost as per IA	-
12. Is there any REC? if so, provide the date	-
13. Revised Estimated Project Cost (if any)	-
14. Completion cost for all the assets covered in the instant petition	-
15. No. of Assets covered in instant petition and having cost overrun	-
16	<p>Prayer in brief</p> <p>(a) Direct that the BBMB shall be entitled to operate the Transmission System in terms of the provisions of the Punjab Re-organisation Act, 1966 and shall be allowed to recover O&M expenditure, additional capital expenditure, R,M&U expenditure from partner States based on the statement of receipt and payment settled between BBMB and the Partner States/State Utilities</p> <p>(b) Direct that the BBMB shall be entitled to operate the SLDC System in terms of the provisions of the Punjab Re-organisation Act, 1966 and shall be allowed to recover O&M expenditure, additional capital expenditure, RM&U expenditure from partner States based on the statement of receipt and payment settled between BBMB and the Partner States/State Utilities.</p>


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		(c) Relax the requirement to pay the court fees on the petition in view of the nature of the petition not involving detailed tariff determination in the peculiar circumstances of BBMB being governed by the provisions of the Punjab Re-organisation Act, 1966.
17	Key details and any Specific issue involved	-
18	Respondents	
	Name of Respondents	
	1.	Punjab State Power Corporation Limited
	2.	Haryana Vidyut Prasaran Nigam Limited
	3.	Rajasthan Rajya Vidyut Prasaran Nigam limited
	4.	Rajasthan Urja Vikas Nigam Limited
	5.	Himachal Pradesh State Electricity Board Limited
	6.	Union Territory of Chandigarh
	7.	Haryana Power Purchase Centre


(Petitioner)

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