

Table of Contents

ORIGIN	2
AN INTRODUCTION	2
CONSTITUTION OF THE BOARD	2
FUNCTIONS	3
PROJECTS AT A GLANCE	4
Dams	4
Water Conductor System	4
RIVER MAP	5
POWER WING.....	6
Power Houses (Installed Capacity).....	6
TRANSMISSION SYSTEM.....	6
HARNESSING OF SATLUJ WATER	8
Bhakra Nangal Project.....	8
HARNESSING OF BEAS WATER	9
Beas Project Unit – I (BSL Project).....	10
Beas Project Unit-II (Beas Dam at Pong)	10
SHARING OF WATER AMONGST THE PARTNER STATES OF BBMB	11
SHARING OF POWER AMONGST PARTNER STATES OF BBMB PERCENTAGE SHARE	13
ABSOLUTE %AGE SHARE IN BBMB POWER HOUSES	13
RENOVATION & MODERNIZATION OF BBMB POWER HOUSES	14
PERFORMANCE HIGHLIGHTS FOR THE LAST FIVE YEARS	15
LIST OF INTER-STATE COURT CASES	16
EXISTING ARRANGEMENT FOR SHARING OF POSTS	23
FINANCING OF BBMB	24
B. SHARING OF THE COST OF POWER WING	25
(ii) Effective from 01.11.2011 vide GOI. MoP, New Delhi Notification No. 02/13/96- BBMB (Vol. VI) dated 31.10.2011.....	25
SHARING OF NET REVENUE EXPENDITURE	27
NEW INITIATIVES	30

ORIGIN

- Erstwhile State of Punjab and Rajasthan collaborated in construction of Bhakra-Nangal Project in 1948.
- Bhakra Control Board & Beas Control Board constituted by GOI in 1950 & 1961 under Chairmanship of Governor, Punjab for construction of Bhakra – Nangal & Beas Project resp.
- Erstwhile state of Punjab reorganized as per the Punjab Reorganization Act, 1966 which also provided for constitution of Bhakra Management Board (BMB) for administration and operation of Bhakra – Nangal Project and Beas Construction Board for construction of the Beas Project.
- As per the Act, after transfer of completed portion of Beas Project to BMB, the latter renamed as Bhakra Beas Management Board (BBMB) as per Govt. of India Notification dated **15.5.1976**.

AN INTRODUCTION

- Statutory body constituted under Punjab Reorganization Act, 1966. Managing Bhakra-Nangal & Beas Projects.
- Regulating water and power to Punjab, Haryana, Rajasthan, Himachal Pradesh, Delhi and Chandigarh from its projects.
- Utilizing waters of three eastern rivers i.e Satluj, Beas & Ravi allocated to India under Indus Water Treaty-1960.
- Acts as lifeline to Northern India. Its projects, grid substations & transmission lines upto 400kV class spread over Punjab, Haryana, HP, Chandigarh & Delhi.
- Generating 10000 to 14000 Million Units annually. Supplying about 34000 MCM of water to States (Irrigating 135 lac acres of land 8% of irrigable area in the country). Harbinger of Green, White & Yellow revolutions and rapid industrialization in Northern Region, providing food, water & energy security. Immense contribution to economy by increase in agro & farm production.

CONSTITUTION OF THE BOARD

- The Bhakra Beas Management Board has been constituted under Section-79 (1) of the Punjab Re-Organization Act, 1966 for the Administration, Maintenance & Operation of works mentioned in Section-79 of the said Act.

In accordance with Section 79(2) of Act the Board consists of :

- A Chairman and two Whole-time Members appointed by Govt. of India.
- A representative each of the four Govts. of Punjab, Haryana, Rajasthan & Himachal Pradesh (generally of the level of Principal Secretary/Additional Chief Secretary) appointed by respective Govts.
- Two representatives (One each from Ministry of Power & Ministry of Water Resources) appointed by Govt. of India.

FUNCTIONS

Section 79 & 80 of the Punjab Reorganization Act, 1966 provides the functions of BBMB as under:

1. Regulation of supply of Satluj, Ravi & Beas Waters to the States of Punjab, Haryana, Rajasthan, Himachal Pradesh, J&K, Delhi and Chandigarh.
2. Regulation of the supply of Power generated from Bhakra & Beas Projects to Punjab, Haryana, Rajasthan, HP and UT Chandigarh.
3. Any other function as Central Government may assign after consultation with Governments of Punjab, Haryana & Rajasthan.

PROJECTS AT A GLANCE

Dams

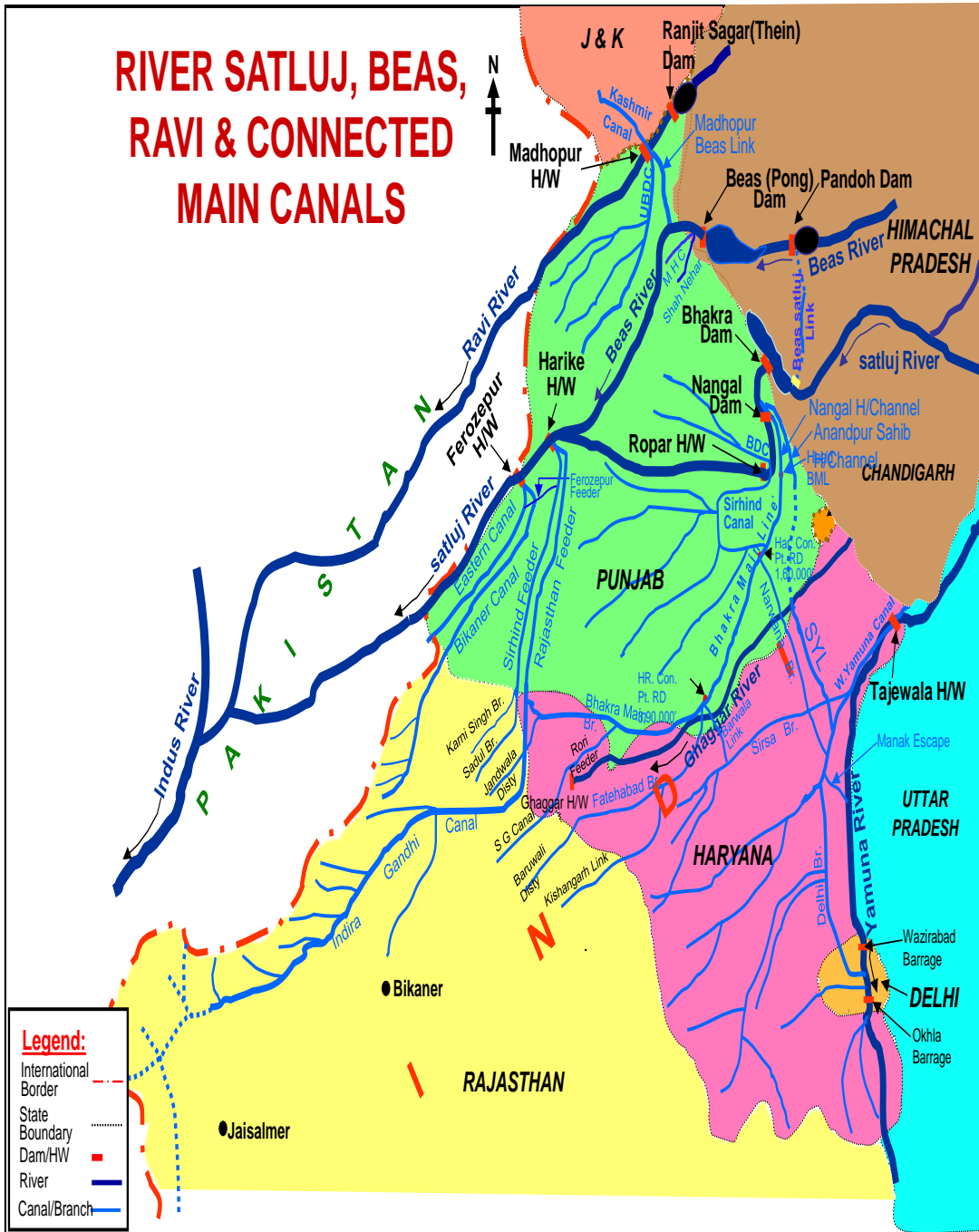
Name of Dam	Type	Height above deepest foundation (ft.)	Length at Top (ft.)	Reservoir Gross storage capacity (MCM)
Bhakra	Concrete straight Gravity	740	1700	9621
Beas (Pong)	Earth core gravel shell	435	6400	8570
Pandoh	Earth cum Rock fill Diversion Dam	250	836	41
Nangal	Mass Concrete Barrage	95	1000	--

Water Conductor System

Name	Length (km)	Discharge (cusec)
Nangal Hydrel Channel	61.06	12500
Pandoh Baggi Tunnel	13.11	9000
Sundernagar Hydrel Channel	11.80	9000
Sundernagar Satluj Tunnel	12.35	14250

RIVER MAP

RIVER SATLUJ, BEAS, RAVI & CONNECTED MAIN CANALS



POWER WING

Power Houses (Installed Capacity)

Name of Power House	Installed Capacity	Location
Bhakra Left Bank	594.00 MW	H.P. (Distt. Bilaspur)
Bhakra Right Bank	785.00 MW	H.P. (Distt. Una)
Ganguwal PH	76.39 MW	Punjab (Distt. Rupnagar)
Kotla PH	77.34 MW	Punjab (Distt. Rupnagar)
Dehar PH	990.00 MW	H.P. (Distt. Mandi)
Pong PH	396.00 MW	H.P. (Distt. Kangra)
TOTAL (Hydro) = 2918.73 MW		

SOLAR POWER PLANTS (INSTALLED CAPACITY)

Roof top solar plants	1685 KWp
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TRANSMISSION SYSTEM

Voltage Rating	No. of Substations	Line Length (Ckt. Kms.)
400 kV	3	574
220 kV	17	2994
132 kV	2	22
66 kV	2	115
Total	24	3705

BBMB TRANSMISSION NETWORK



LEGEND

HYDRO POWER STN.		400 kV SINGLE CIRCUIT LINE	
THERMAL POWER STN.		220 kV DOUBLE CIRCUIT LINE	
400 kV SUBSTATION		220 kV SINGLE CIRCUIT LINE	
220 kV SUBSTATION		132 kV DOUBLE CIRCUIT LINE	
66 kV SUBSTATION		66 kV LINE	

HARNESSING OF SATLUJ WATER

The Indus Waters Treaty is a water-distribution treaty between India and Pakistan, brokered by the World Bank to use the water available in the Indus System of Rivers located in India. The Indus Waters Treaty (IWT) was signed in Karachi on September 19, 1960 by the first Prime Minister of India Pandit Jawaharlal Nehru and then President of Pakistan Ayub Khan. According to this agreement, control over the water flowing in three "eastern rivers" of India — the Beas, the Ravi and the Satluj with the mean annual flow of 33 million acre-feet (MAF) — was given to India, while control over the water flowing in three "western rivers" of India — the Indus, the Chenab and the Jhelum with the mean annual flow of 80 MAF — was given to Pakistan.

Bhakra Nangal Project

The First Multi-Purpose Project of free India Bhakra-Nangal Project was dedicated to the Nation on 22nd Oct., 1963 by Pt. Jawahar Lal Nehru.

Bhakra Dam

Height of Dam	: 225.55 m (740 ft.)
Reservoir (Gobind Sagar)	
Gross Storage capacity	: 9621 million m ³
Live Storage	: 7191 million m ³
Area of Reservoir	: 168.35 Sq. km.
Power houses	: Bhakra Left & Right bank PHs
Installed capacity of PHs	: 1379 MW (uprated from 1050MW)

Nangal Dam

Commissioned in 1954

Location	: 13 kilometers Downstream of Bhakra Dam
Purpose	: To divert Satluj Water to canal network through Nangal Hydrel Channel

Nangal Hydrel Channel

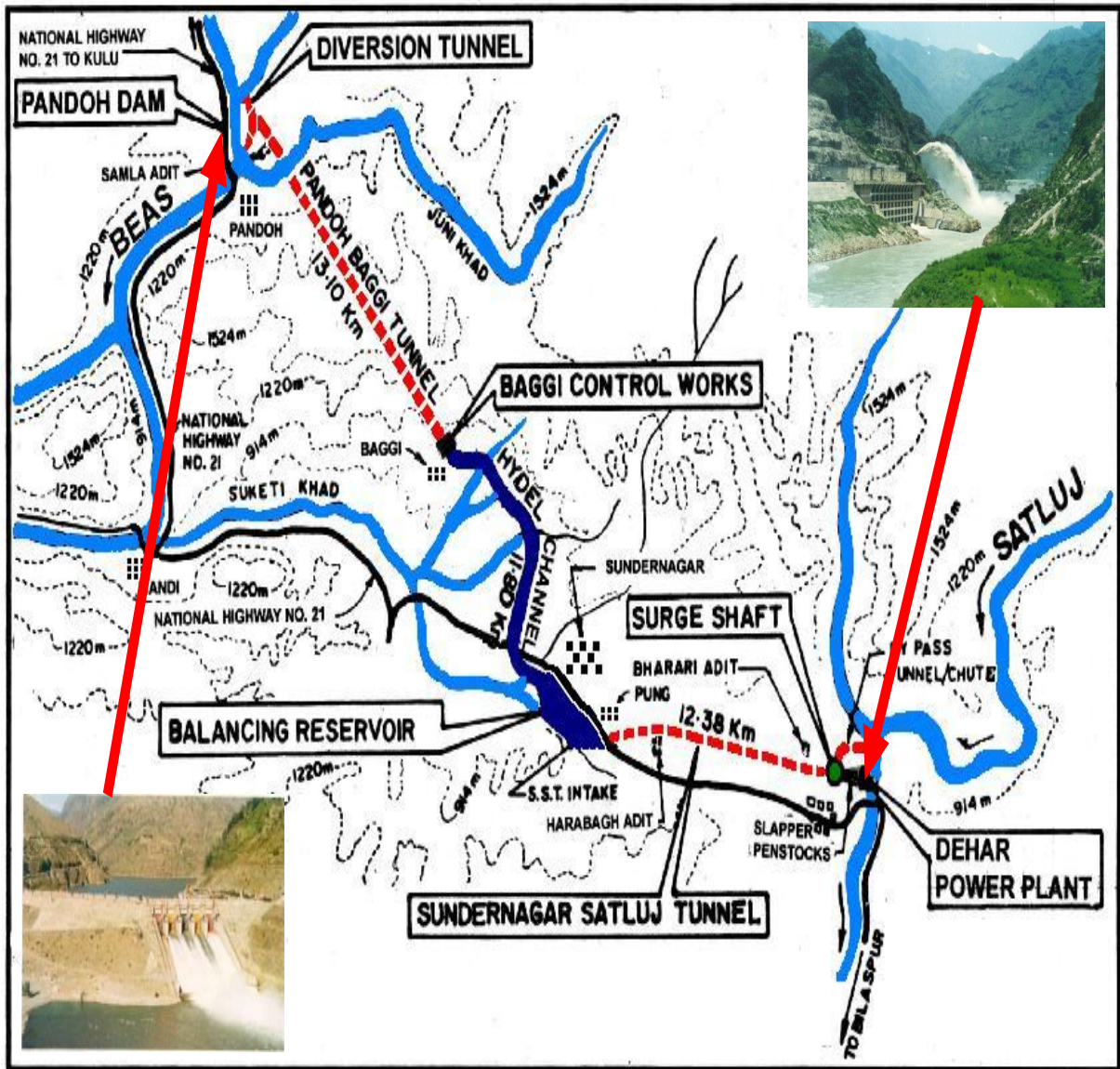
Length	: 61.06 kilometers
Discharge	: 354 cumecs (12500 Cusecs)

Canal Power Houses

Power generation at Ganguwal & Kotla Canal Power Houses, each with three units (total 153.73 MW) commenced in 1955 & 1956 respectively.

HARNESSING OF BEAS WATER

Beas Project Comprises Two Units (Beas Unit-I & Beas Unit-II)



Beas Project Unit – I (BSL Project)

Beas Unit-I i.e. the Beas Satluj Link Project, completed in 1977. It diverts 4716 million cubic mtr. (3.82 MAF) of Beas water per annum to Satluj and generates 990 MW power at Dehar Power House.

Pandoh Dam

Type of Dam	Earth-cum-rockfill
Reservoir Storage Capacity	41 million m ³
PANDOH BAGGI TUNNEL	
Dia & Length	25 Feet & 13.11 Km
Capacity	9000 cusecs

Sundernagar Hydrel Channel

Length	11.8 km
Capacity	9000 cusecs

Balancing Reservoir

Capacity	3.7 million m ³
Maximum Level	El. 2764 Feet

Sundernagar Satluj Tunnel

Diameter	28 Feet
Length	12.35 km
Capacity	14250 cusecs

Dehar Power House

Installed Capacity	165 x 6 = 990 MW
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Beas Project Unit-II (Beas Dam at Pong)

Beas Dam

132.59 m (435 ft) high Earth Core Gravel Shell type dam

RESERVOIR (Maharana Pratap Sagar)

Gross Storage Capacity	8570 million m ³
Live Storage capacity	7290 million m ³

Pong Power House

Installed Capacity	6 x 66 = 396 MW (uprated from 6 x 60 = 360MW)
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SHARING OF WATER AMONGST THE PARTNER STATES OF BBMB

THE INDUS WATER TREATY 1960 - The Government of India and Government of Pakistan being equally desirous of attaining the most complete and satisfactory utilization of water of the Indus System of Rivers, have resolved to conclude a treaty in furtherance of these objectives. In this treaty waters of the Eastern rivers namely Satluj, Beas and Ravi were made available for the un-restricted use of India and Pakistan received the right to un-restricted use of all the waters of the western rivers namely Indus, Jehlum and Chenab.

❖ **Distribution of Satluj Water**

1. The distribution of Satluj water amongst the partner states of Punjab, Rajasthan was done as per Bhakra Nangal agreement, 1959.
2. Consequent to re-organization of state of Punjab in 1966 successor states were created and it became necessary to determine the respective shares of the successive states under section 78 of Punjab re-organization Act of 1966(31 of 1966).

❖ **Distribution of Surplus Flow of Ravi & Beas Water**

1. The surplus flow of rivers Ravi & Beas, over and above the pre-partition use, was allocated by agreement in 1955 between the concerned states as follows:

Punjab	7.20 MAF (including 1.30 MAF for PEPSU)
Rajasthan	8.00 MAF
Jammu & Kashmir	0.65 MAF
Total	15.85 MAF

2. And for the purpose of the said allocation, the availability of water was based on the flow series of the said rivers for the year 1921-1945 – *As per notification on 25.03.1976.*

- ### ❖
- On 31 December 1981 Prime Minister of India & Union Minister of Law, Justice and Company Affairs with the Chief Minister of Haryana, Punjab & Rajasthan decided that mean 17.17 MAF based on Flow & Storage 1921-1961 may be re-allocated as under:

Punjab	4.22 MAF
Haryana	3.50 MAF
Rajasthan	8.60 MAF
Quantity ear marked for Delhi water supply	0.20 MAF
Jammu & Kashmir	0.65 MAF

It was also agreed that in case of any variation in the figure 17.17 MAF in any year, the shares shall be pro-rata of the above allocation subject to the condition that no change shall be made in the allocation of Jammu and Kashmir and Delhi water supply.

- ### ❖
- The Bhakra Beas Management Board shall be permitted to take all necessary measures for carrying out measurements and for ensuring delivery of supplies to all the concerned states in accordance with their entitlement.

Percentage share of water

State	Satluj Water	Ravi Beas Water*
Punjab	57.88	30
Haryana	32.31	21
Rajasthan	9.81	49
Delhi	-	0.2 MAF (Fixed)
J&K	-	0.65 MAF (Fixed)

**After deducting 0.65 MAF(802 MCM) water for J&K & 0.2 MAF(247 MCM) for Delhi.*

Within above mentioned shares, water releases to states are consensually decided on monthly basis by Technical Committee of BBMB comprising representatives of partner states.

**SHARING OF POWER AMONGST PARTNER STATES OF BBMB
PERCENTAGE SHARE**

The sharing of power amongst the partner states w.e.f 01/11/2011 is in accordance with the Ministry of Power ,Government of India notification dated 31/10/11. The power shares w.e.f. 01/11/2011 are as under:-

Sr No.	State/UT	Bhakra	Dehar	Pong
i)	Rajasthan	15.22%	20%	58.5%
ii)	Balance	84.78%	80%	41.5%
iii)	Punjab	51.8% of Balance	51.8% of Balance	51.8% of Balance
iv)	Haryana	37.51% of Balance	37.51% of Balance	37.51% of Balance
v)	H.P.	7.19% of Balance	7.19% of Balance	7.19% of Balance
vi)	U.T. Chandigarh	3.5% of Balance	3.5% of Balance	3.5% of Balance

ABSOLUTE %AGE SHARE IN BBMB POWER HOUSES

Sr. No.	State/UT	Bhakra		Dehar		Pong	
		Before Judgment dt. 27.9.11 (i.e. upto 31.10.11)	After Judgment dt. 27.9.11 (i.e. w.e.f. 1.11.11)	Before Judgment dt. 27.9.11 (i.e. upto 31.10.11)	After Judgment dt. 27.9.11 (i.e. w.e.f. 1.11.11)	Before Judgment dt. 27.9.11 (i.e. upto 31.10.11)	After Judgment dt. 27.9.11 (i.e. w.e.f. 1.11.11)
i)	Rajasthan	15.22%	15.22%	20%	20%	58.5%	58.5%
ii)	Punjab	46.20%	43.91%	48%	41.44%	24.9%	21.50%
iii)	Haryana	33.49%	31.80%	32%	30.01%	16.6%	15.57%
iv)	H.P.	2.12%	6.10%	--	5.75%	--	2.98%
v)	U.T. Chd.	2.97%	2.97%	--	2.80%	--	1.45%

- Note: i) In case of Bhakra, energy shares of beneficiary States/UT are worked out after booking energy to some common pool consumers.
ii) In case of Dehar, prior to the Judgment, energy shares were worked out after booking 2.16 LUs/day to H.P.

RENOVATION & MODERNIZATION OF BBMB POWER HOUSES

Name of Project (Unit)	Date of Commissioning	Installed Capacity		Date of Completion		Modification	Cost (Rs. Crores)
		Initial (MW)	RMU 1 st Stage	RMU 1 st Stage	RMU 2 nd Stage		
			RMU 2 nd Stage	RMU 2 nd Stage			
BHAKRA LEFT							
1	14.11.1960	90	108 MW	22.02.1985	Stage 1 st : Upgraded Insulation from Class 'B' to 'F'	8.60 (1st Stage)	
			126 MW	ongoing			
2	02.02.1961	90	108 MW	11.03.1984			
			126 MW	19.07.2013			
3	07.07.1961	90	108 MW	10.04.1983		Stage 2 nd : Comprehensive	490.00 (2nd Stage)
			126 MW	Ongoing			
4	06.11.1961	90	108 MW	06.02.1982			
			126 MW	05.08.2015			
5	10.12.1961	90	108 MW	22.01.1981			
			126 MW	02.10.2013			
Total		450	540 MW				
			630 MW				
BHAKRA RIGHT							
6	24.05.1966	120	132 MW	16.10.1980	Stage 1 st : Utilized existing margin after checking bearing temp., stator iron & copper temp., t/f winding/oil temp. Stage 2 nd : Changed turbine runners, guide vanes, stator core, cooling system, excitation system & stator winding insulation from Class 'B' to 'F'	92.00 (2 nd Stage)	
			157 MW	18.06.1997			
7	05.12.1966	120	132 MW	16.10.1980			
			157 MW	12.02.2001			
8	13.03.1967	120	132 MW	16.10.1980			
			157 MW	05.04.1998			
9	13.11.1967	120	132 MW	16.10.1980			
			157 MW	29.02.1996			
10	19.12.1968	120	132 MW	16.10.1980			
			157 MW	08.06.2000			
Total		600	660 MW				
			785 MW				
GANGUWAL							
Ph-III (1)	23.01.1962	29.25 (Derated)	27.99 MW	20.10.2006		90.00	
Ph-I (2)	02.01.1955	24.20	24.20 MW	04.01.1998		18.90	
Ph-II (3)	02.01.1955	24.20	24.20 MW	27.09.2000		25.00	
Total		74.89	76.39 MW				
KOTLA							
Ph-III (1)	14.07.1961	29.25 Derated	28.94 MW	13.04.2007		90.00	
Ph-II (2)	27.08.1956	24.20	24.20 MW	14.05.2001		25.00	
Ph-1 (3)	23.05.1956	24.20	24.20 MW	01.10.1998		18.90	
Total		75.01	77.34 MW				
PONG							
1	20.01.1978	60	66 MW	15.02.2002		19.83	
2	30.03.1978	60	66 MW	11.04.2000			
3	26.10.1978	60	66 MW	23.02.1998			
4	26.03.1979	60	66 MW	11.02.2001			
5	19.09.1982	60	66 MW	25.02.2003			
6	25.02.1983	60	66 MW	07.02.2004			
Total		360	396 MW				
DEHAR							
1	02.11.1977	165					
2	03.03.1978	165					
3	12.06.1979	165					
4	12.06.1979	165					
5	17.07.1983	165					
6	10.11.1983	165					
Total		990					

BBMB has already added **365 MW** through uprating, which comprises the biggest chunk of the hydro power capacity added in the country through uprating:

Sr. No.	Name of Power House	Initial Capacity (MW)	Capacity Addition (MW)	Present Capacity (MW)
1	Bhakra Left Bank	450	144	594
2	Bhakra Right Bank	600	185	785
3	Pong	360	36	396

Presently R,M&U of Bhakra Left Power House is underway. RM&U of three units from 108 MW to 126 MW each has been successfully completed implying 40% increase in capacity vis-à-vis original capacity which is one of the highest in the world. Work for remaining two units is under progress.

PERFORMANCE HIGHLIGHTS FOR THE LAST FIVE YEARS

Particulars	YEARS				
	2019-20* (upto Feb-20)	2018-19	2017-18	2016-17	2015-16
Energy Generation Target (MUs)	8847	9425	9360	9536	9076
Actual Generation (MUs)	11473.336	10190	10881	10634	11853
Excess Generation over target (%) set by CEA	29.68	8	16	12	31
Machine Availability (%)	98.85	97.95	99.17	98.67	97.22
Transmission line Availability (%)	99.84	99.69	99.68	99.64	99.72
Net cost of energy per unit supplied to Partner States (in Paisa)	36.89	45.80	41.55	37.24	32.01

**Annual Target 9470 MUs*

Particulars	YEARS				
	2018-19	2017-18	2016-17	2015-16	2014-15
Water supplied to Beneficiary States (Million Cubic Meter)	24007	26634	25257	26927	24719

LIST OF INTER-STATE COURT CASES

Sr. No	Case No. & Title	Summary of the case	Name of Court	Present Status	Remarks
1.	Civil Appeal No. 3365/2005 titled State of Punjab Vs. D.M. Singhvi & Ors.	State of Punjab has challenged judgment of Rajasthan High Court to hand over control of Ropar, Harike and Ferozepur Headworks to BBMB.	Supreme Court of India	Pending Last Order on. 28.11.2017 To be taken up after decision of OS 02/2007	
2.	Original Suit No. 1/2008 titled State of Haryana Vs. State of Punjab & Ors.	State of Haryana has sought enforcement of 79(1)(c) of Punjab Re-organization Act, 1966 vesting the control of Irrigation Headworks at Ropar, Harike & Ferozepur to BBMB.	-do-	Pending: Last listed on 06.03.2019. Next hearing on 17.04.2020	
3.	Original Suit No. 3/2009 State of Haryana Vs. State of Punjab & Ors.	State of Haryana has sought declaratory decree that the BBMB and not the State of Punjab should be in possession and control of the Madhopur Head Works, Thein Dam/Ranjit Sagar and the Shahpur Kandi Dam Project, whenever completed, but also for a declaratory decree that Haryana is entitled to proportionate shares of power from the Anandpur Sahib Hydel Project, Mukerian Hydel Project, Thein Dam Project, UBDC Stage-II and Shahpur Kandi Hydel Scheme.	-do-	Next Hearing 24.03.2020 Last order on 01.04.2019	
4.	Original Suit No. 1/2011 State of Rajasthan Vs. Union of India & Ors.	The State of Rajasthan has filed Original Suit No. 1 of 2011 in the Hon'ble Supreme Court of India claiming following reliefs : <ul style="list-style-type: none"> • The Union of India may be directed to take decision about allocation for release of 0.17MAF water Ex-Nangal through BML in pursuance of the reference made by the BBMB on 3-8-2006 and in terms of clause (V) of the agreement dated 31-12-1981; and 	-do-	Next Hearing 27.03.2020 Last Hearing 25.09.2019 Last Order on 25.09.2019.	

		<ul style="list-style-type: none"> • The BBMB may be directed to release 0.17MAF of Ravi Beas water Ex-Nangal through BML: and • The State of Haryana may be restrained from unduly interfering/impeding in release of 0.17 MAF of due share of water of State of Rajasthan because there is no dispute with regard to its share as well as the carriage canal of BML. 			
5.	Original Suit No. 2/2011 State of Rajasthan Vs. State of Punjab & Ors.	<p>The State of Rajasthan has filed this suit against State of Punjab & Ors. claiming following:-</p> <ol style="list-style-type: none"> 1. Pass a decree to Punjab to handover control of Irrigation Headworks at Ropar, Harike & Ferozpur to BBMB. 2. Direction for UOI to issue direction to BBMB to takeover possession of said head works and to Punjab to handover the same to BBMB. 3. Supervisory Control and Data Acquisition (SCADA) for correct measurement of water be installed at regulatory point of Indira Gandhi Feeder Canal of Harike Head Works. 4. Award cost of suit to plaintiff state. 	-do-	<p>Next Hearing on 27.03.2020 Last Listed on 25.09.2019 Last Order on 25.09.2019</p>	
6.	Original Suit No. 1/2014 State of Rajasthan Vs. State of Punjab & Ors.	<p>State of Rajasthan has recently filed Original Suit No. 1/2014 against State of Punjab & Ors. in which prayer has been made to divest State of Punjab of the control and possession of Madhopur Head Works, M.B. Link, the Thein Dam Project/Ranjit Sagar Project as well as Shahpur Kandi Project wherever</p>	-do-	<p>Last listed on 07.2.2020 , pending, next date not fixed.</p>	

		completed and vesting thereof to BBMB for administration, maintenance and operation for all purposes including regulation of releases of waters to ensure the interest of all partner States and also to grant a share in power proportionate to the share of Rajasthan in waters discharged from all these projects.			
7.	Original Suit No. 1 of 2015 State of Punjab Vs. Union of India & Ors.	State of Punjab has filed Suit for a decree of mandatory injunction directing the Union of India to constitute an appropriate Tribunal under Section 4(1) of the Inter-State Water Dispute Act of 1956 to adjudicate the disputes relating to the equitable distribution of waters of the rivers Ravi and Beas as raised by the Plaintiff in its complaint dated 11 th January, 2003.	-do-	Next Hearing on 09.04.2020 Last Listed 17.09.2019 Last Order on 17.09.2019	
8.	Original Suit No.2/1996 State of HP Vs. UOI & Others.	State of HP claimed 7.19% share from Bhakra & Beas Projects on the basis of transferred population 12% of free power from Hydro-Electric Projects in H.P territory on analogy of Central Sector Projects.		Last Listed on 28.01.2020, Pending next date not available.	
9.	Original Suit No.1/2007 State of Punjab Vs. State of Haryana.	St. of Punjab on 11.07.2007 filed this suit praying issue of perpetual injunction against St. of Haryana from: (i) Further digging of Channel & ----- construction of embankment under the project named Hansi-butana Branch Multipurpose Channel by puncturing BML. (ii) Issue mandatory injunction directly Haryana State to dismantle the embankment of the project named – Hansi – Butana multipurpose Channel.		Next Hearing on 09.04.2020 Last Listed 17.09.2019 Last Order 17.09.2019	

		(iii) Issue a decree of perpetual injunction restraining UOI and its agents/ departments from granting clear once to aforesaid project in the absence of concurrence of St. of Punjab (SINCE BBMB IS NOT A PARTY HENCE NO ONE ENGAGED)			
10.	SLP No. 9522/2008 State of Punjab Vs. State of Haryana	SLP filed against order dated 23.07.2007 passed by the Hon'ble Punjab & Haryana High Court, CHD in CWP No. 19676/2005 titled Jaswant Singh & others vs. St. of Harayana & others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019 Last Order on 17.09.2019	
11.	SLP No. 9511/2008 State of Punjab Vs. State of Haryana	Challenged the order dated 23.07.2007 passed by the Hon'ble Punjab & Haryana High Court Chandigarh in CWP No. 11452/2006 titled Amarjot Singh Punia Vs. St. of Punjab &..... others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019 Last Order on 21.02.2014	
12.	SLP No. 9526/2008 State of Punjab Vs. State of Haryana	Challenged the order dated 23.07.2007 passed by the Hon'ble Punjab &..... Haryana High Court Chandigarh in CWP No. 11452/2006 titled Amarjot Singh Punia Vs. St. of Punjab &others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019	
13.	SLP No. 9503/2008 State of Punjab Vs. State of Haryana	Challenged the order dated 23.07.2007 passed by the Hon'ble Punjab &..... Haryana High Court Chandigarh in CWP No. 11452/2006 titled Amarjot Singh Punia Vs. St. of Punjab &others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019 Last Order on 21.02.2014	
14.	SLP No. 9507/2008 State of Punjab Vs. State of Haryana	SLP filed against judgement/ order dated 23.07.2007 passed by Hon'ble Punjab & Haryana High Court, CHD in CWP No. 13691/2006 titled Gram Panchyat Bibipur Vs. St. of Haryana &.....others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019	

15.	SLP No. 9484/ 2008 State of Punjab Vs. State of Haryana	SLP filed against judgement/ order dated 23.07.2007 passed by Hon'ble Punjab & Haryana High Court, CHD in CWP No. 13691/2006 titled Gram Panchyat Bibipur Vs. St. of Haryana &.....others.		Next Hearing on 09.04.2020 Last Listed on 17.09.2019 Last Order on 13.05.2015	
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CASES REFERRED TO GOI UNDER RULE 7 OF 1974

- 1 Revision of water distribution to Rajasthan out of surplus Ravi-Beas waters at various contact points.

The case was referred to the Secretary, Government of India, Ministry of Power, New Delhi vide BBMB letter No.5366-74/B-890/DHD/Vol-X dated 03.08.06.

The issue was discussed in the Board's 206th meeting held on 24.01.2011. Thereafter Rajasthan had filed a Suit No. 1/2011 in the Hon'ble Supreme Court of India for supply of 0.17MAF Ravi-Beas water through BML for Sudmuth Nohar areas of Rajasthan. The matter was again discussed in the Inter State meeting held on 28.08.2017 at New Delhi to resolve the issue but due to differing view of Partner States, no reconciliation on the issue could be made even through the matter is subjudice.

- 2 Regarding sharing of posts on the Beas Project & Bhakra Beas Complex in BBMB.

The matter was referred to the Ministry of Power under Rule-7 of BBMB Rules 1974 vide BBMB letter No. 19108-12/B-1690/3-Admn. Dated 18.06.1985 and information as sought by MoP vide its letter No. 07.02.2012-BBMB dated 13.09.2012 has been supplied vide BBMB Memo No. 9268-69/R&R/1030 dated 27.11.2012. Last reminder has been issued vide BBMB memo no. 16620/ R&R/ 1030 dated 03.12.2013.

Three proposals on the sharing issue were sent to Ministry of Power vide BBMB letter no.-7169/R&R/1030 dated 15.07.2016 as per the direction of Parliamentary Committee (visited Chandigarh on 02.07.2016). Ministry of Power vide letter dated 06.09.2016 directed BBMB to put the proposal in the Board. The matter was placed in the Board where in Board has directed to constitute a committee to establish equivalence of posts in BBMB viz-a-viz partner states. The said committee has been constituted vide BBMB order dated 05.01.2018. Various meetings of the committee have been held and matter is under finalization.

**SANCTION STRENGTH OF STAFF, STATE-WISE OF PARTNER STATES
AND ACTUAL DEPLOYMENT/PERCENTAGE AS ON 31.12.2019 IN BBMB.**

Note: Total sanctioned strength includes 3518 share of BBMB own recruited staff.

Wing	Total Sanctioned Strength	BBMB, own employees in position	Punjab State/Elect. Boards		Haryana State Elect. Boards		Rajasthan State/Elect. Boards		Himachal State/Elect. Boards		Total in position	Total Vacancy in BBMB
			Share	In Position/	Share	In Position/	Share	In Position	Share	In Position		
IRRIGATION WING												
Group A	253	42	138	99 (71.74%)	99	81 (81.82%)	16	21 (131.25)	0	23	228	25
Group B, C&D	6985	3105	2141	1653 (77.2%)	1393	168 (8.14%)	184	16 (8.6%)	0	72	5014	1971
Total	7238	3147	2279	1752 (76%)	1492	249 (16.69%)	200	37 (18.5%)	0	95	5242	1996
POWER WING												
Group A	408		198	164 (82.83%)	161	139 (86.33%)	49	44 (89.80%)	0	26	376	32
Group B, C&D	4321	1976	1245	324 (26.02%)	895	156 (17.4%)	234	50 (21.3%)	0	332	2838	1483
Total	4729	2018	1443	481 (33.33%)	1056	295 (27.94%)	283	94 (33.22%)	0	358	3214	1515
FA & CAO	35		18	13 (72.22%)	13	9 (69.23%)	4	4 (100%)	0	3	32	3
Sectt. Office	69		38	25 (65.79%)	25	16 (64%)	6	9 (150)	0	3	65	4
Total (Irrigation + Power+ FA&CAO +Sectt. Office)	12071	5165	3778	2269 (60.05)	2586	569 (22)	493	144 (29.20)	0	459	8553	3518

EXISTING ARRANGEMENT FOR SHARING OF POSTS

Due to non-decision of the partner states on sharing of posts in BBMB during various meetings an interim arrangements was put in place in 1998 which is as under:

Irrigation Wing		Punjab(%)	Haryana(%)	Rajasthan(%)
1.	Bhakra Nangal Project	60	40	-
2.	Beas Units	54	36	10
Power Wing				
1.	Bhakra Nangal Project	58	42	-
2.	Beas Units	35	35	30
3.	Common Works	52	38	10

This arrangement is being followed till today.

FINANCING OF BBMB

- According to Sub-section 5 of Section 79 of Punjab Reorganization Act, the Governments of successor States of the erstwhile Punjab and the State of Rajasthan are required at all times to provide necessary funds to the Bhakra Beas Management Board to meet all expenses required for the discharge of its functions.
- As provided in Rule-11 of the Bhakra Beas Management Board Rules, 1974, the Budget Estimates are to be approved by the Bhakra Beas Management Board.
- BBMB does not have any Balance Sheet or Profit & Loss Account.
- Central Govt. does not provide any funds, budgetary support or grant-in-aid.
- Expenditure of Irrigation Wing of BBMB is financed by the Partner State Governments.
- Expenditure of Power Wing is financed by the power utilities of partner states .
- Revenue receipt is also distributed amongst Partner States/Power Utilities as per their respective share.
- Budget estimates put up before Budget Sub Committee (comprising representatives of partner state Govts/Power Utilities). Recommendations of Budget Sub Committee are put up before the Board of the BBMB for approval.
- Personal Ledger Account of FA&CAO, BBMB opened in the books of the Govt. of India. The amount of advances made by Partner State Governments/Power Utilities is credited to this account and expenditure of BBMB is met out from this account.
- **The sharing of the cost of Irrigation wing /Power wing is defined as Under :**

A. Sharing of the Cost of Irrigation Wing

Partner State Govt.	Bhakra Project	BSL Project, Sunder Nagar, Unit-I	Beas Project, Talwara Unit-II
Punjab Govt.	60% (after deducting share of Rajasthan Govt.)	51%	24.9%
Haryana Govt.	40% (after deducting share of Rajasthan Govt.)	34%	16.6%
Rajasthan Govt.	15.22% in Unit-I & 19.06% in Unit-II & III	15%	58.5%

B. SHARING OF THE COST OF POWER WING**(i) Effective upto 31.10.2011**

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House, Unit-II	Beas Transmission Lines
PSPCL	60 % (after deducting RRVPNL share)	48%	24.9%	24.5%
HVPNL	40 % (after deducting RRVPNL share)	32%	16.6%	51.7%
RRVPNL	15.22%	20%	58.5%	23.8%

(ii) Effective from 01.11.2011 vide GOI. MoP, New Delhi Notification No. 02/13/96-BBMB (Vol. VI) dated 31.10.2011.

Power Utility	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House, Unit-II	Beas Transmission Lines
PSPCL	51.80% (after deducting RRVPNL share)	51.80% (after deducting RRVPNL share)	51.80% (after deducting RRVPNL share)	28.72% (after deducting RRVPNL share)
HVPNL	37.51% (after deducting RRVPNL share)	37.51% (after deducting RRVPNL share)	37.51% (after deducting RRVPNL share)	60.59% (after deducting RRVPNL share)
RRVPNL	15.22%	20%	58.5%	23.8%
HPSEBL	7.19% (after deducting RRVPNL share)	7.19% (after deducting RRVPNL share)	7.19% (after deducting RRVPNL share)	7.19% (after deducting RRVPNL share)
Electricity deptt UT, Chandigarh	3.5% (after deducting RRVPNL share)	3.5% (after deducting RRVPNL share)	3.5% (after deducting RRVPNL share)	3.5% (after deducting RRVPNL share)

- (iii) According to notification dated 31.10.11 pg Gol, MoP given at pre-page the Absolute %age share of power Wing of BBMB between partner Utilities comes as under:-

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House, Unit-II	Beas Transmission Lines
PSPCL	43.91%	41.44%	21.50%	21.88%
HVPNL	31.80%	30.01%	15.57%	46.17%
RRVNL	15.22%	20.00%	58.50%	23.80%
HPSEBL	6.10%	5.75%	2.98%	5.48%
Electricity deptt UT, Chandigarh	2.97%	2.80%	1.45%	2.67%

SHARING OF NET REVENUE EXPENDITURE

(Rs. In Crores)

	Budget Grant for the year 2019-20	Revised Budget Est. 2019-20	Budget Estimates 2020-21
IRRIGATION WING			
Punjab Govt.	162.59	154.83	172.31
Haryana Govt.	106.18	101.06	112.48
Rajasthan Govt.	136.85	126.96	137.79
Total	405.62	382.85	422.58
POWER WING (after deducting Revenue Receipt & including RM&U)			
P.S.P.C.L.	296.94	281.37	302.89
H.V.P.N.L.	245.22	232.11	254.19
R.V.P.N.L.	160.65	151.00	165.34
H.P.S.E.B.L.	43.65	41.34	44.85
U.T., Chandigarh	21.25	20.13	21.83
Total	767.71	725.95	789.10

INTER WING BOOKING OF EXPENDITURE

S.No.	Units of Appropriations	Irrigation: Power
Irrigation Portion		
1 (i)	Unit No. 1, Bhakra dam	50:50
(ii)	Unit No. 2, Nangal dam	50:50
(iii)	Unit No. 3, Nangal Hydel Channel	50:50
(iv)	Unit No. 1, Nangal Power Plant	00:10
2	BSL, Sundernagar Unit-I	06:94
3	Pong Dam, Talwara Unit-II	76.5 : 23.5

S.No.	Units of Appropriations	Power : Irrigation
Power Wing Portion		
1	Bhakra Complex	100:00
2	Dehar Power Plant ,unit No.-I of Beas Project	94:6
3	Pong Power Plant ,Unit No. II of Beas Project	23.5:76.5
4	Beas Transmission Lines	100:00

OUTSTANDING FUNDS POSITION MONTH OF 31.12.2019

(Amount in Lacs)

Sr. No.	Name of State/ Elecy. Board	Out standings
1	Punjab Govt.	-1418.7
2	Haryana Govt.	536.13
3	Rajasthan Govt.	-1300.65
Total		-2183.22
1	PSPCL	10097.30
2	HVPNL	-28.03
3	RVPNL	99.66
4	HPSEB	-13.18
5	UT CHD	-137.67
Total		10018.08
Grand Total		7834.86

NEW INITIATIVES

1. Automation of Grid Substations

Reaffirming its commitment to state-of-art technology. BBMB has taken a big leap towards automation of its grid substations. As a first step, 220kV Substation, Barnala (Punjab) has been automated and automation work of 4 Nos. other substation are under progress.

2. Solar Power Generation

To make humble contribution to the ambitious efforts of GOI in respect of roof top solar power generation, BBMB has taken first step in installing solar PV Projects in BBMB .

Total Roof-top Solar Plants (Installed Cap.) = 1685 kWp

Total Roof-top Solar Plants (Under progress) = 1719 kWp

Total Land Based Solar Plants (under progress)= 18 MWp

Floating Solar Plant (under progress) = 15 MWp

3. Baggi Power House(2 x 22 MW)

Ministry of Power, Govt. of India has assigned the work of construction and execution of Baggi Power House (44MW) to BBMB. BBMB has initiated the process for investigation, DPR preparations and other formalities.

4. Remote Operation of Power Houses

BBMB is one of few organizations which has connected its power houses and substations on optical fibre network. The Power Houses and Substations are interlinked through SCADA for unified real time appraisal to optimize operation. Further, remote control/operation of power houses from SLDC, Chandigarh is under execution, starting with operation of Bhakra Left Bank Power house.