

# **Punjab State Power Corporation Ltd.**

**Aggregate Revenue Requirement for FY 2015-16**

**Replies to Deficiencies  
(Set 2)**

**Submitted to**

**The Hon'ble Punjab State Electricity Regulatory Commission  
Chandigarh**

**Submitted by:**

**PUNJAB STATE POWER CORPORATION LIMITED**

**The Mall, Patiala – 147001**

**December 2014**

# FINANCIAL

## 1. Audit Report

- i. *The comments of Comptroller and Auditor General of India on audited accounts for FY 2012-13 as per the companies Act may be furnished at the earliest and a time frame may be indicated.*

**Reply:** - The C&AG Audit report as per Section 619 of the Companies Act, 1956 as amended from time to time for FY 2012-13 will likely to be submitted to the Hon'ble Commission by 31 January, 2015.

- ii. *Cost audit report and the compliance report duly authenticated and signed by the cost accountant in the specified formats (Performae A to H) as per the notification of Ministry of Corporate Affairs dated 07.12.2011 may be furnished. Statement indicating separately plant-wise and unit-wise information in performae C as per notification for each type of generation viz. Hydroelectric, Thermal, Atomic etc. and for captive consumption, power sold within country and power exported may also be expedited. The time frame for submitting the report may be indicated.*

**Reply:-** PSPCL submits that the firm of professional Cost Accountants has already been appointed and work regarding Cost Audit of the cost accounting records for FY 2012-13 is already under process and the work of Cost Audit will likely to be finalised by the end of January, 2015.

## 2. Employee Cost FY 2012-13

- i. *The closing balance of number of employees with the opening balance of number of employees of the subsequent year is still not matching. The closing balance of number of employees ending FY 2012-13 is 48815 whereas the opening balance of FY 2013-14 has been depicted as 48269. Similarly, the closing balance of FY 2013-14 and FY 2014-15 is 45159 and 41157 respectively whereas the opening balance of FY 2014-15 and FY 2015-16 has been shown as 44636 and 40613. As such, the figures may be reconciled and correct information should be supplied.*

**Reply:-** PSPCL submits the reconciled figures of number of employees as under:

Sr. No.	Particulars	FY 2012-13 Actual	FY 2013-14 (Prov.)	FY 2014-15 (RE)	FY 2015-16 (Proj.)
1	Number of employees with PSPCL as on 1st April	52142	48269	44636	40613
2	Number of employees posted with BBMB as on 1st April	605	521	500	520

Sr. No.	Particulars	FY 2012-13 Actual	FY 2013-14 (Prov.)	FY 2014-15 (RE)	FY 2015-16 (Proj.)
3	PSPCL employees on deputation/ foreign service as on 1st April	22	25	23	24
4	<b>Total number of employees as on 1 April (1+2+3)</b>	<b>52769</b>	<b>48815</b>	<b>45159</b>	<b>41157</b>
5	Less: Number of employees retired/expected to be retired during the year	4526	3926	4251	3888
6	Add: Number of employees recruited/expected to be recruited during the year	572	270	249	1284
7	<b>Total Number of employees at the end of the year (4-5+6)</b>	<b>48815</b>	<b>45159</b>	<b>41157</b>	<b>38553</b>
8	PSPCL employees on deputation/ foreign service at the end of the year	25	23	24	24
9	Number of employees posted with BBMB at the end of the year	521	500	520	520
10	<b>Number of employees with PSPCL at the end of the year (7-8-9)</b>	<b>48269</b>	<b>44636</b>	<b>40613</b>	<b>38009</b>
11	Number/share of employees required to be posted with BBMB as per agreement	1565	1565	1565	1565

ii. *The information regarding the employees relating to future recruitment should be shown separately.*

**Reply:-** PSPCL submits that the number of employees recruited/expected to be recruited has been shown at Sr. No. 6 of table mentioned in reply of 2(i).

iii. *The matter regarding furnishing copy of Audited Accounts of BBMB for FY 2012-13, budget of BBMB for FY 2014-15 and FY 2015-16 and the justification of the employee cost of BBMB for FY 2012-13 may be followed up with the BBMB and the requisite information should be supplied expeditiously.*

**Reply:-** PSPCL submits that the copy of the account received from BBMB along with Summary for FY 2012-13 has already been submitted to Hon'ble Commission with the replies of deficiencies (dated 9 December, 2014). It is further submitted that annual summary of BBMB is prepared based on receipt and payment vouchers of BBMB and this annual summary is supplied to all power Utilities every year. Further, these summaries are adopted by respective Power Utilities in their balance sheet and are audited during the audit of balance sheet of respective Utilities by concerned Accountant General. The reply received in this regard from BBMB is attached in Annexure I of this document for reference of the Hon'ble Commission.

Further, the copy of the budget of BBMB for FY 2014-15 & FY 2015-16 is attached as Annexure II-A and Annexure II-B respectively.

iv. *The employee cost of BBMB from FY 2012-13 to FY 2015-16 is quite on higher side. Please give the details regarding employee cost of 605 employees of PSPCL with BBMB. Please justify the claim of high employee cost of PSPCL employee working with BBMB which is Rs.*

30.35 lac per employee compared to Rs. 4.30 lac per employee working in PCPSL keeping in view the BBMB quota and the actually posted employees in BBMB.

**Reply:-**PSPCL submits that BBMB has shown its inability to provide the details of employee cost of 605 employees of PSPCL with BBMB as the details are not available with ready-reference. Further, PSPCL vide dated 12 December, 2014 (attached as Annexure III) requested the BBMB to provide the necessary details regarding the employee cost of 605 employees of PSPCL with BBMB. The Hon'ble Commission may appreciate that the PSPCL has no control over BBMB for timely providing the requisite information. PSPCL is following up with the BBMB and will provide the requisite information as soon as it receives from BBMB.

Further, as regards the employee cost of BBMB, PSPCL reiterates that PSPCL is bearing the O&M expenses of BBMB (including employee expenses) on the basis of agreed energy sharing ratio as per the notifications issued by Ministry of Power, Government of India from time to time. The employee expenses of BBMB contains the expenses of employees of Irrigation Department, Government of Punjab, the expenses of own employees of the BBMB and expenses of the employees posted to BBMB by the Utilities. The BBMB has approx. 7000 own employees and the expenses of the same has been shared amongst the Utilities as per agreed energy ratio.

### 3. Depreciation

*As per Regulation 27 of PSERC Tariff Regulations, 2005 as amended vide notification dated 17 September, 2012, depreciation for generation and transmission assets shall be calculated at the rate of depreciation specified by the Central Electricity Regulatory Commission from time to time. Depreciation for distribution and other assets not covered by CERC shall be as per the rates notified in the Companies Act as revised from time to time. As such, PSPCL's plea that two sets of depreciation cannot be adopted for one company is not tenable. In view of this, the details of depreciation charges as per the provisions in PSERC Tariff Regulations may be furnished on the format already supplied vide letter dated 1.12.2014*

**Reply: -** PSPCL reiterates the earlier reply submitted in this regards. Further, as required by the Hon'ble Commission, PSPCL is in the process of preparation of depreciation charges for generation and sub-transmission assets based on the rate specified by Central Electricity Regulatory Commission and will submit the same to the Hon'ble Commission by 31 December, 2014.

### 4. Interest & Finance Charges

- i. *The reasons for mismatch in the closing and opening balances of loans have not been furnished. Therefore, specific reply into the query in this regard may be expedited and complete information after reconciliation of the balances should be furnished.*





**Reply:-** PSPCL submits that in ARR for FY 2015-16, in Table 31, the loans have been categorised into Long Term Loans and Working Capital Loans. However, in audited annual accounts for FY 2012-13, the loan amounts have been shown as per Revised Schedule-VI of Companies Act, 1956 as amended from time to time. The reconciliation of loans in ARR Petition and audited accounts for FY 2012-13 is shown in below table:

Sr. No.	Particulars	As per Audited Account of FY 2012-13 (in Rs. Crore)				
		As per Note 5	As per Note 6	As per Note 8	As per Note 10	Total (as per Format 15 of ARR)
	As at 31 March 2012 (Opening balance for FY 2012-13)					
1	Long Term Loans	7342.83	-	-	794.46	8137.29
2	GPF liability	-	2171.03	-	-	2171.03
3	Sub-total	7342.83	2171.03	0.00	794.46	10308.32
4	Working Capital Loans	2195.23	-	5060.00	3564.42	10819.65
5	Total	9538.06	2171.03	5060.00	4358.88	21127.97
	As at 31 March 2013 (Closing balance for FY 2012-13)					
6	Long Term Loans	7002.33	-	-	950.89	7953.22
7	GPF liability	-	2337.42	-	-	2337.42
8	Sub-total	7002.33	2337.42	0.00	950.88	10290.64
9	Working Capital Loans	8787.06	-	50.00	3004.37	11841.43
10	Total	15789.40	2337.42	50.00	3955.24	22132.07

As per Revised Schedule VI, if a loan having tenure for more than one year is availed, then it has to be classified as Non-Current Liability-Long Term Borrowings and also the loans which are repayable in next Financial Year, are to be shown as Current Liabilities-Current Maturities to Long Term Borrowings. There is only difference of re-presentation in ARR Formats and Audited accounts which has been reconciled in the above table.

Further, in ARR Petition of FY 2014-15, the Closing balance of loans (Other than working capital and GoP loans) is submitted as Rs. 7916.16 Crore. Further, PSPCL vide Memo No. 225/DTR/Dy.CAO/241/Vol-II dated 30 January, 2014 submitted to the Hon'ble Commission the basis of consideration of loan of RBI Bonds and worked out the Opening balance for FY 2012-13 as Rs. 221.13 Crore. Accordingly, the Opening balance of loan has been computed as Rs. 8137.29 Crore (Rs. 7916.16 Crore + Rs. 221.13 Crore) for FY 2012-13 which has been confirmed in the above table at Sr. No. 1.

- i. *As already desired, complete information regarding segregation of the loans into long term loans and working capital loans may be furnished, function wise and generating plant wise.*

**Reply: -** PSPCL submits the details of generating plant wise scheme loans and distribution (T&D) scheme loans is attached in Annexure IV of this document. Further, it is submitted that the Working capital loans are taken for meeting the working capital requirements of PSPCL and funding the revenue gap/expenses disallowed by the Hon'ble Commission in past tariff orders. Hence, function wise segregation of working capital loans cannot be made as the working capital loans are not taken against any specific scheme.

## 5. Prior Period Income / expense

*The information regarding the period to which the prior period income/expenses relate may be expedited.*

**Reply:-** PSPCL submits that the information for Power Purchase Cost (as part of prior period expenses for FY 2012-13) is as under:

Sr. No.	Particulars	Year	Prior period expenses (in Rs. Crore)
1	PGCIL	2004-05	0.12
		2005-06	0.46
		2006-07	2.20
		2007-08	2.03
		2008-09	15.82
		2009-10	8.69
		2010-11	6.51
		2011-12	10.92
2	DVC int.	2011-12	0.02
3	IREDA	2011-12	1.38
	<b>Total</b>		<b>48.15</b>

It is further submitted that the remaining information is not centrally available and is being collected from various offices and the same will be submitted in due course.



# TECHNICAL

---

1. *PSPCL has taken same plea for not submitting the tariff proposal in the past also. The proposal to cover the gap is required to be submitted as per Regulation 13 (1) of the Tariff Regulations. As such, the tariff proposal to cover the revenue gap be submitted now.*

**Reply:** - PSPCL cannot discriminate amongst its consumers and accordingly prays that revenue gap as finally decided by the Hon'ble Commission be covered by uniformly increasing the tariff across all categories. However, PSPCL reiterates its prayer that the Hon'ble Commission to take an appropriate view on the revenue gap proposed by PSPCL in ARR Petition for FY 2015-16 as per PSERC Tariff Regulations, 2005 while determining the tariff for FY 2015-16.

2. *PSPCL has made the same submissions for not submitting the audited figures of energy sales, generation and power purchase at the time of processing of ARR for FY 2014-15. The Commission has ordered in para 2.1 of Tariff Order for FY 2014-15 for submitting these figures audited in future. PSPCL may note that audited energy sales, generation and power purchase figures should be submitted in future, if these are not available now.*

**Reply:** - PSPCL noted the directions of the Hon'ble Commission and submits that it will provide audited energy sales, generation and power purchase figures in future.

3. *The reply of PSPCL with regard to getting the figures of plant availability verified from SLDC/PSTCL is not appreciable. For prudence check of the plant availability figures and determining the incentive/disincentive as per applicable Tariff Regulations and in compliance to Order of the Hon'ble APTEL dated 11.09.2014 in case of Appeal No. 174 of 2012, these have to be got verified from SLDC/PSTCL. As such, necessary data be provided to SLDC/PSTCL for verification of the plant availability figures and get these verified.*

**Reply:** - PSPCL submits that the current procedure pertaining to plant availability, declared capacity and scheduling of power being followed in Punjab SLDC is as under:

The plant availability of respective plants and corresponding declared capacity of central sector is uploaded on NRLDC website and that of IPPs in Punjab State is intimated through e-mail to Punjab SLDC on daily basis. The corresponding schedule of each unit is uploaded daily by PSPCL keeping in view the system demand. However, generation and distribution, both the functions are under the control of PSPCL and monitoring/operation of Punjab power system is being controlled by PSTCL (SLDC) & PSPCL jointly from the same control room situated at Ablowal in Patiala. The system of declaring the plant availability and corresponding schedule in respect of own thermal plant has not been introduced so far. However, the availability of own generating station is available and is monitored by the SLDC control room only. PSPCL again reiterates that the PAF calculations are based on the actual data which is record of PSPCL and not of SLDC/PSTCL and any verification by SLDC will be in reference to the same data for which the prudence check is carried out by the Hon'ble Commission also.



Moreover, PSPCL vide its letter dated 3 December, 2014 and 9 December, 2014 (attached as Annexure V-A & V-B) requested the SLDC to verify the plant availability of GNDTP, GGSSTP and GHTP. Till date, PSPCL has not received any response from SLDC. Hon'ble Commission may give suitable directions to SLDC in this regards as SLDC is not under the administrative control of PSPCL.

4. *The reply to the query raised by the Commission with regard to projection of energy sales figures after adjustment of load shedding units is not satisfactory. The CAGR taken for projecting the energy sales figures for second half of FY 2014-15 and FY 2015-16 do not contain the effect of load shedding units as there were power regulatory measures/load shedding during the years for which CAGR has been taken. As such PSPCL should provide energy sales figures for second half of FY 2014-15 (RE) and for FY 2015-16 (projections) after adjustment of load shedding units when sufficient energy is available and no power cuts are likely to be there during the second half of FY 2014-15 and FY 2015-16, as projected in the ARR for FY 2014-15. Further, power purchase (MU and cost in Rs. Crore) and energy balance figures need to be worked out accordingly, and submitted to the Commission. The impact of these figures on the ARR also need to be worked out and submitted to the Commission.*

**Reply:** - PSPCL submits that it has projected the energy sales for FY 2014-15 (H2) and FY 2015-16 by applying Compound Annual Growth rate (CAGR) to the actual sales of the past years. The CAGR in itself is not only due to inherent growth but also due to additional utilisation of the existing load which is also due to increased power availability. The effect of withdrawal of load shedding because of increase in power availability has accordingly got in built into the projected energy sales. There is no assumption available that energy sales shall increase directly in proportion to number of hours of availability of supply which is never the case as utilisation of power is always need and availability based and is never on only availability based.

PSPCL in ARR Petition for FY 2015-16 submitted the revised estimates of metered energy sales for FY 2014-15 as 29826.01 MU which is higher than the metered energy sales of 29036 MU approved by the Hon'ble Commission in Tariff Order for FY 2014-15 considering the adjustment of load shedding units. This further proves that methodology taken by PSPCL for projecting sales is justified and any further increase in sales will be over projection of sales.

Furthermore, the load shedding undertaken in PSPCL in the past years were mainly to restrict the peak demand and were not to restrict the average demand during the day and accordingly no significant rise in sales can be thought of/projected in load shedding free regime as the energy sales projections are based on averaged out sale over H1 and H2 and any load shedding to restrict peak demand at some time in the past shall not affect the averaged sales in future. The sale figures projected in ARR of FY 2015-16 are optimum and very realistic.

5. *PSPCL has only intimated the details of interest paid during the FY 2012-13. The detail of additional charges paid by PSPCL has not been submitted by PSPCL. The Consultants in their*



report on Study of power purchase/sales/surrender from 01.04.2010 to 31.03.2013 have pointed out an amount of Rs. 23.65 Crore paid as additional UI charges by PSPCL during FY 2012-13.

**Reply:-** PSPCL submits that the details of additional UI charges paid during FY 2012-13 is attached in Annexure VI of this document. PSPCL has paid the additional UI charges of Rs. 12.79 Crore in FY 2012-13.

6. The Hon'ble Commission letter No. PSERC/Tariff/T/185/2093 dated 8 December, 2014-  
The ARR for FY 2015-16 submitted by PSPCL is deficient with regard to GCV of coal in respect of Thermal Generating Stations of PSPCL. The same be supplied on the attached performa immediately.

**Reply: -** PSPCL has submitted the requisite information to the Hon'ble Commission by Memo No. 2632/CC/DTR-119/Vol.25/TR-II dated 11 December, 2014. The same is attached in Annexure VII to this document.

7. The Hon'ble Commission letter No. PSERC/Tariff/T/185/3476 dated 9 December, 2014-  
“... .. The observations of the of the Commission in the matter are the same as already conveyed vide Commission's letter no. 702/PSERC/DTJ/105 dated 20.01.2014 (copy enclosed). PSPCL may submit its comments on the observations as contained in the Commission's ibid letter.”

**Reply: -**

**In compliance to the Hon'ble Commission above said letter, PSPCL submits as under without prejudice to its stand of consideration of AP consumption based on sample meter data:**

The Hon'ble Commission in FY 2011-12, FY 2012-13 and FY 2013-14 has taken 30% of pumped energy of Kandi feeders towards AP unmetered pumped energy based on percentage share of sanctioned load. A brief analysis with 30% share is below:

(all figures in LU)				
Sr. No.	Particulars	2012-13	2013-14	2014-15
1	Pumped energy of Kandi feeders	15601.92	9471.00	9247.96
2	30% Pumped energy of Kandi feeders towards AP unmetered (1*30%)	4680.57	2841.30	2774.39
3	AP Consumption	5368.49	3162.33	3602.34
4	Balance Non AP Energy (1-2)	10921.34	6629.70	6473.58
5	Non AP metered sale	6682.20	3794.51	3939.63
6	% Losses [1-(5/4)]	38.82%	42.76%	39.14%

PSPCL in last 3-4 years have invested heavily in loss reduction schemes in Non AP areas such as shifting of meters outside consumer premises, de-loading of feeders & Distribution Transformer's, Replacement of under size & worn out conductors. Therefore it is even beyond imagination and no way can be projected that PSPCL have 40-45% losses in Non AP sector., The average non AP losses in rest of PSPCL are in the range of 15-20 % except for few pockets

in border Zone, West Zone and accordingly the hypothesis of taking Kandi Area losses as 30% can safely be said as underestimation.

In addition to above PSPCL stand is further confirmed by the pilot exercise wherein PSPCL has installed 100% meters on 1 no Kandi Area feeder named Allowal Feeder under Garhshanker division. For analytical purposes readings of all meters installed is taken on monthly basis. Detailed analysis of feeder is as below:

Sr. No.	Financial Year	Substation Input (kWh)	AP Load (kW)	Non AP Load (kW)	Total Load (kW)	AP Consumption (kWh)	Non AP Consumption (kWh)	Total Consumption (kWh)	%age losses	%age Ap load	%age Ap consumption
1	2011-12	4774726	1432.28	937.84	2370.12	3410672	838395	4249067	11.01	60.43	80.27
2	2012-13	4866620	1445.71	966.10	2411.82	3635890	779161	4415051	9.24	59.94	82.35
3	2013-14	4284660	1457.00	996.09	2453.09	3020788	932178	3952966	7.74	59.39	76.42

The above data clearly shows that AP consumption on Kandi feeders is not proportional to percentage of sanctioned load and percentage of pumped energy to be taken for AP unmetered calculated by PSPCL is fairly accurate. Therefore, consideration of 45% of pumped energy of Kandi feeders towards AP unmetered supply will be justified.

**PSPCL further re-iterates that it has submitted above said information in compliance with the Hon'ble Commission letter dated 9 December, 2014.**

**PSPCL further prays the Hon'ble Commission to consider the AP consumption on the basis of sample meter data.**



FAX No 0175-221322X

K.A. S. Verma, Dy.

Office of the Financial Adviser & Chief Accounts Officer,  
BBMB, Sector 19-B, Chandigarh.

No. 2823/B(FA-BBMB)88/Vol.33/ 4522-30

Dated: 8.12.2014

To

✓ The Chief Financial Officer,  
Punjab State Power Corporation Ltd.,  
The Mall, Patiala.

Subject:- Petition for Annual Revenue Requirement and Determination of  
Tariff filed by PSPCL for FY 2015-16-Deficiencies.

Sir,

Kindly refer to your office Memo No. 505-06 dated 03.12.2014  
on the subject cited above.

In response to point No. 2(vii) it is intimated that the Audit of  
Account of BBMB is being done by Accountant General, Punjab through its  
Voucher Audit Party. However, the matter was especially taken up with the  
Pr. Accountant General (Audit), Chandigarh for audit of Accounts of BBMB.  
The photocopy of reply received for reference which is self explanatory is  
enclosed herewith.

Further, copy of budget of BBMB for RBE 2014-15 and BE 2015-  
16 has already been sent to PSPCL vide this office letter No. 2823/B (FA-  
BBMB)/88-2015-16/4141-77 dated 14.11.2014 and meeting of Budget Sub  
Committee was held on 25.11.2014 and necessary changes incorporated in  
budget estimates for the year 2015-16 as per recommendations of Budget  
Sub Committee. A amended copy of budget document is enclosed herewith  
for your reference.


Regarding employee cost it is intimated that PSPCL is bearing  
the O&M cost on the basis of agreed sharing ratio as per notifications issued  
by the Govt. of India, Ministry of Power, New Delhi from time to time and not  
in the terms of employees deputed by Partner State Governments/Power  
Utilities.

Further, In response to point No. 3(III) It is submitted that every financial year, annual summary is prepared on the basis of receipt and expenditure vouchers of BBMB. This annual summary is supplied to all power utilities every year. However, this office has directed the concerned office to supply the requisite information directly to your office.

This issues with the approval of FA & CAO, BBMB.

Yours faithfully,

DA/As above.

  
Asstt. Financial Adviser,  
BBMB, Chandigarh.

CC:-

Dy. CAO, BBMB, Nangal for Information, please.





REC'D.

ajesh Asthana, IA & AS  
उप-महालेखाकार (निर्माण)  
DEPUTY ACCOUNTANT GENERAL  
(Works)



प्रधान महालेखाकार (लेखा परीक्षा),  
पंजाब एवं यू.टी. का कार्यालय,  
रीक्टर 17-ई, चण्डीगढ़ - 160 017

OFFICE OF THE  
Pr. ACCOUNTANT GENERAL (AUDIT),  
PUNJAB & U.T.,  
SECTOR 17-E, CHANDIGARH - 160 017  
Phone : 0172-2701230, Fax : 0172-2701230

WHQ/Certification of A/C  
D. O. No. BBMB/2011-12/599  
दिनांक/Date : 24.11.2011

Respected Sir,

Kindly refer to your Do letter No. 2136/B (FA, BBMB) 88/10 dated 12 July 2011, to audit the accounts of BBMB for 2010-11. I am to submit that the accounts submitted by you are only the annual summaries of the account, and not comprising of Receipt and Payment Account, Revenue and Expenditure Account and Balance Sheet. The annual summaries of accounts are not required to be audited. The figures shown in the annual summaries are adopted as such by the respective State Electricity Boards in their Balance Sheet and are audited during the audit of Balance Sheet of respective state by the concerned Accountant General.

Further the audit of BBMB offices at Chandigarh and in field offices in r/o Works Expenditure and establishment Expenditure is being done by Works Wing and audit reports are prepared and submitted every year to the BBMB authorities.

This is for your kind information please.

Yours Sincerely,

M. Poonam Chaudhry, IA & AS  
Financial Advisor and Chief Accounts Officer  
BBMB Sector -19  
Chandigarh.

Yours Sincerely

4/11/11

11/11/11

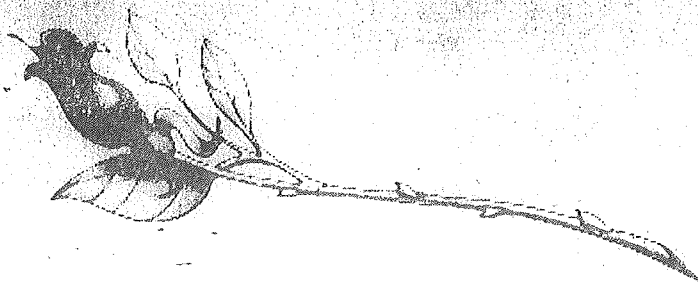
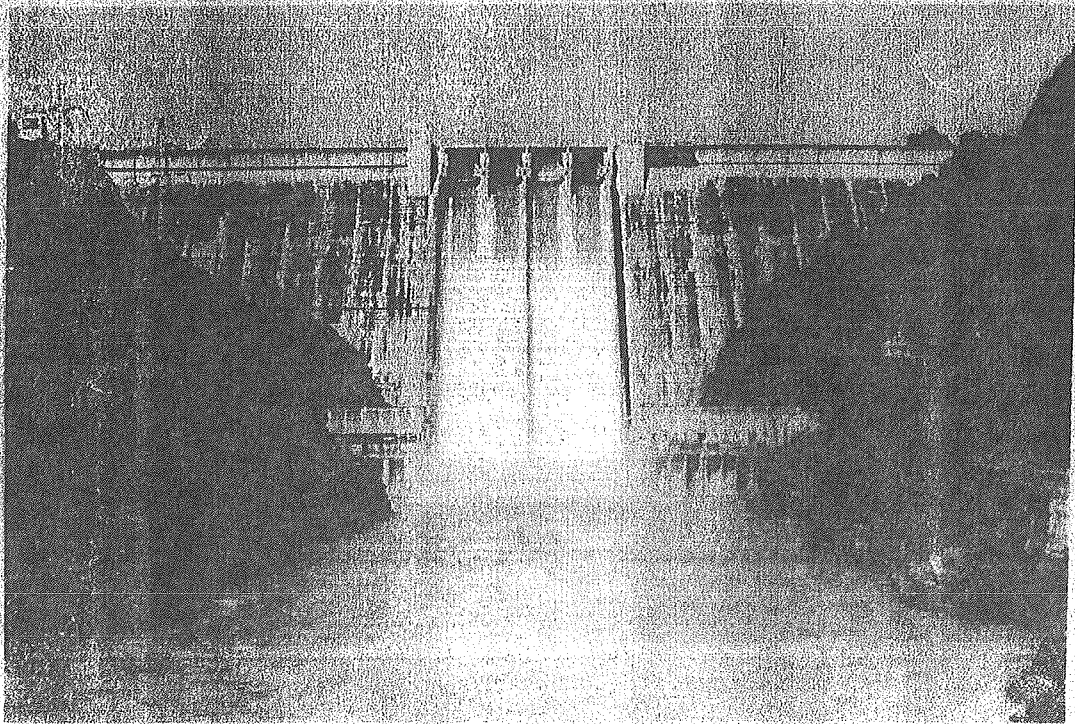
Dr. CAO / M

2/11/11



# **BBMB BUDGET 2014-15**

## **(Incorporating Revised Budget Estimate for 2013-14)**



**BHAKRA BEAS MANAGEMENT BOARD**  
**CHANDIGARH - 160019**

*[Handwritten signature]*

# BBMB BUDGET

## CONTENTS

Budget Explanatory Note	1-19
Physical Performance Budget	20-22
Exhibits A to D	23-34
Expenditure for the last five years.	35-36
Summary - Revised Budget Estimates for 2013-14 & Budget Estimates for 2014-15 and share of Partner States/State Power Utilities to be financed by them.	37-43

### REVENUE HEADS OF ACCOUNTS

Actual Exp. for 2012-2013, Original Budget for 2013-14, Revised Budget for 2013-2014 and Budget Estimates for 2014-15 (Irrigation Wing).

2700-Major Irrigation Bhakra Dam	44-46
----------------------------------	-------

List of estimates for Rs. 5.00 lac & above – Irrigation Wing – Bhakra Dam	47-52
---------------------------------------------------------------------------	-------

2700-Major Irrigation -III-Beas Project	53-56
-----------------------------------------	-------

List of estimates for Rs. 5.00 lac & above – Irrigation Wing – Beas	57-68
---------------------------------------------------------------------	-------

Actual Exp. for 2012-13, Original Budget for 2013-2014, Revised Budget for 2013-2014 and Budget Estimates for 2014-2015 (Power Wing) Bhakra Complex	69-71
-----------------------------------------------------------------------------------------------------------------------------------------------------	-------

Actual Exp. for 2012-13, Original Budget for 2013-2014, Revised Budget for 2013-2014 and Budget Estimates for 2014-2015 (Power Wing) Beas Project	72-76
---------------------------------------------------------------------------------------------------------------------------------------------------	-------

List of Estimates for Rs. 30.00 lacs & above (Power Wing)	77-88
-----------------------------------------------------------	-------

*JP*

# C O N T E N T S

## CAPITAL HEADS OF ACCOUNTS

Actual Exp. for 2012-2013, Original Budget Estimates for 2013-2014, Revised Budget for 2013-2014 and Budget Estimates for 2014-2015

- |     |                                                     |       |
|-----|-----------------------------------------------------|-------|
| i)  | 4700- Capital Outlay on Major Irrigation Bhakra Dam | 89    |
| ii) | 4700- Capital Outlay – III – Beas Project.          | 89-90 |

## REVENUE RECEIPTS (IRRIGATION WING)

0700-Bhakra Complex and Beas Complex	91-92
--------------------------------------	-------

## REVENUE RECEIPTS (POWER WING)

0801-Bhakra Complex and Beas Complex	92-93
Outstanding dues against Common Pool Consumers ending 30.11.2013.	94

94

# EXPLANATORY NOTE ON THE REVISED BUDGET ESTIMATES FOR THE YEAR 2013-14 AND BUDGET ESTIMATES FOR THE YEAR 2014-15 OF BHAKRA BEAS MANAGEMENT BOARD

\*\*\*\*\*

## 1. INTRODUCTORY

The Bhakra Beas Management Board has been constituted under section-79 (1) of the Punjab Re-organisation Act, 1966 for the Administration, Maintenance & Operation of works mentioned in Section-79 of the said Act. According to Sub-section 5 of Section 79 the Governments of successor States 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.

## 2. SOURCE OF FINANCING

The sources of financing the expenditure in the Irrigation Wing and Power Wing of the Bhakra Beas Management Board are different. Revenue expenditure of Irrigation Wing is financed by the partner State Governments of Punjab, Haryana & Rajasthan from their own resources in the agreed ratios. In the Power Wing the Revenue Expenditure is partly met out of the receipts realized from the Common Pool Consumers and short-falls are financed by the partner state power

utilities and now including H.P.S.E.B. and U.T., Electricity Department, Chandigarh also from their own resources. The Capital expenditure of Irrigation & Power Wings of Bhakra Nangal Project is met out of sale proceeds of surplus machinery and stores, the purchase of which has already been charged to the Capital Head of Accounts. The Capital works of Beas Project were executed by Beas Construction Board and the expenditure was met out of Central assistance given to the participating State Governments by the Govt. of India. The amount of loan was being credited to the P.L.A. of Beas opened in the Public Account of Government of India and it was treated as loan to the participating Governments. The Budget was being approved by B.C.B. and after its take over by BBMB, funds required for residual liabilities are now being provided in Budget of Bhakra Beas Management Board and Budget Estimates relating to Capital works of Beas Project have been included in the Budget of the Bhakra Beas Management Board under the respective Capital Heads of Account. The participating State Governments will have to provide funds to Bhakra Beas Management Board to meet this expenditure out of their plan outlay or their own resources. Details of these proposals have been discussed in the subsequent paragraphs.

The Ministry of Power, Govt. of India, New Delhi on the direction of Hon'ble Supreme Court of India vide its notification no. 02/13/96-BBMB (Vol. VI) dated 31.10.2011, has revised the sharing of allocation of energy from Bhakra-Nangal and Beas Projects w.e.f. 01.11.2011.

The sharing of the cost of Irrigation Wing/Power Wing is defined on next page:-



(A) Irrigation Wing:

	Bhakra Project	BSL Project, S. Ngr., 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) Power Wing:

(i) Effective upto 31.10.2011

	Bhakra (PW) Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Transms. Lines
P.S.P.C.L.	60% (after deducting RRVPL Share)	48%	24.9%	24.5%
H.V.P.N.L.	40% (after deducting RRVPL Share)	32%	16.6%	51.7%
R.R.V.P.N.L.	15.22%	20%	58.5%	23.8%

(ii) Effective from 01.11.2011 vide Govt. of India, Ministry of Power,  
New Delhi Notification No. 02/13/96-BBMB (Vol. VI) dated  
31.10.2011.

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Trams. Lines
P.S.P.C.L.	51.80% (after deducting RRVPL Share)	51.80% (after deducting RRVPL Share)	51.80% (after deducting RRVPL Share)	28.72% (after deducting RRVPL Share)
H.V.P.N.L.	37.51% (after deducting RRVPL Share)	37.51% (after deducting RRVPL Share)	37.51% (after deducting RRVPL Share)	60.59% (after deducting RRVPL share)
R.R.V.P.N.L.	15.22%	20%	58.5%	23.8%
H.P.S.E.B.L.	7.19% (after deducting RRVPL Share)	7.19% (after deducting RRVPL Share)	7.19% (after deducting RRVPL Share)	7.19% (after deducting RRVPL Share)

Electricity Deptt., UT, Chandigarh.	3.5% (after deducting RRVNL Share)	3.5% (after deducting RRVNL Share)	3.5% (after deducting RRVNL Share)	3.5% (after deducting RRVNL Share)
-------------------------------------------	------------------------------------------	------------------------------------------	------------------------------------------	------------------------------------------

(iii) According to above notification the absolute %age share of Power Wing of BBMB between Partner Power Utilities comes as under:-

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Trans. Lines
P.S.P.C.L.	43.91%	41.44%	21.50%	21.88%
H.V.P.N.L.	31.80%	30.01%	15.57%	46.17%
R.R.V.P.N.L.	15.22%	20.00%	58.50%	23.80%
H.P.S.E.B.L.	6.10%	5.75%	2.98%	5.48%
Electricity Deptt., UT, Chandigarh.	2.97%	2.80%	1.45%	2.67%

The Revenue and Capital expenditure of Bhakra Beas Management Board has been shown separately under Irrigation and Power Wing.

### 3. SALIENT FEATURES

#### (a) Revenue Receipts

Irrigation receipts have been budgeted on the basis of expected realisation of receipt on account of Building Rent, Water charges etc., Supply of water to Delhi Jal Nigam. Revenue Receipts in the Power Wing have been estimated on the basis of receipts on account of sale of energy to the common pool consumers etc.



b) Revenue Expenditure

The Major Head-wise and Minor Head-wise details of Budget Estimates are given from Page 44 to 88.

The Summary of Revenue Expenditure is given as under: -

(Figures in lacs of ₹)					
	Actual Exp. During the year 2012-13	Original Budget for the year 2013-14	Actual Exp. From 04/2013 to 11/2013	Revised Budget Est. for the year 2013-14	Budget Estimates for the year 2014-15
<b>Gross Expenditure incurred directly By Irrigation Wing</b>					
Bhakra	19522.80	24354.80	14336.81	25661.06	26772.70
Beas	22289.17	24752.31	15933.90	25838.03	26912.10
<b>Total</b>	<b>41811.97</b>	<b>49107.11</b>	<b>30270.71</b>	<b>51499.09</b>	<b>53684.80</b>
<b>Gross Expenditure incurred directly By Power Wing</b>					
Bhakra	17704.39	36869.97	12051.01	28874.95	37536.00
Beas	14903.52	18764.09	8245.28	18618.98	19647.18
<b>Total</b>	<b>32607.91</b>	<b>55634.06</b>	<b>20296.29</b>	<b>47493.93</b>	<b>57183.18</b>
<b>Grand total of Gross Expenditure Incurred directly by Irrigation &amp; Power Wing</b>	<b>74419.88</b>	<b>104741.17</b>	<b>50567.00</b>	<b>98993.02</b>	<b>110867.98</b>
<b>Net Expenditure debited to Irrigation Wing</b>					
Bhakra	9846.10	12256.14	7212.63	12920.89	13458.38
Beas	10163.90	12550.97	6912.30	12587.65	13667.77

*upto rev*

Total	20010.00	24807.11	14124.93	25508.54	27126.15
<b>Net Expenditure debited to Power Wing</b>					
Bhakra	27381.09	48968.63	19175.19	41615.13	50850.33
Beas	27028.79	30965.43	17266.88	31869.36	32891.51
Total	54409.88	79934.06	36442.07	73484.49	83741.84
<b>Grand Total of Net Expr. of Irrigation Wing as well as Power Wing</b>	74419.88	104741.17	50567.00	98993.03	110867.99

#### 4. REVENUE EXPENDITURE

The reasons for variation in the Gross Revenue Expenditure to be incurred by the Irrigation and Power Wing respectively are explained as under: -

##### A. IRRIGATION WING

- (a) Revised Budget Estimates for 2013-14 under Major Head " 2700 – Major Irrigation-I-Bhakra Dam" 2700-01-129

(Figures in lacs of ₹)

	Budget Grant for the Year 2013-14	Revised Budget Estimates for the year 2013-14	Variation (+) Excess (-) Saving
Works	1809.46	2672.85	(+) 863.39
Establishment	22545.34	22988.21	(+) 442.87
Total	24354.80	25661.06	(+) 1306.26

There is an overall excess provision of ₹ 863.39 lac under the Head 'Works'. In this regard, it is intimated that an agenda for additional/re-appropriation of budget requirement of ₹ 7.70 Crore on account of purchase of security equipment (₹3.15 Crore), Golden Jubilee celebration of Bhakra Dam (₹3.18 Crore) and ₹1.37 Crore for spill over works was placed before the Board in its 215<sup>th</sup> meeting vide item no. 215.12. It was also proposed that this additional demand would be adjusted within allocated budget and additional budget shall be demanded through Budget Sub Committee. The aforesaid agenda note was approved by the Board with the suggestion to economize the expenditure on Golden Jubilee celebration of Bhakra Dam. This additional budget/re-appropriation has been included in the Revised Budget Estimates for the year 2013-14 as approved by the Board. A detailed description of excess/surrender under 'Works' is annexed at Exhibit-A.

There is an overall excess provision of ₹ 442.87 lac under the Head 'Establishment'. This is mainly due to balance provision of two months salaries to the 'employees' on account of Golden Jubilee of Bhakra Dam.

(b) 2700-Major-Irrigation – III – Beas Project

2700-01-130

( Figures in lacs of ₹ )

	Budget Grant for the year 2013-14	Revised Budget Estimates for the year 2013-14	Variation (+) Excess (-) Saving
Works	3063.00	2931.88	(-) 131.12
Establishment	21689.31	22906.15	(+) 1216.84
Total	24752.31	25838.03	(+) 1085.72

There is an overall less provision of ₹ 131.12 lac under the Head 'Works'. This is mainly due to deferment of the major work of ₹ 173.63 lacs under Beas Project. The detailed description of excess/surrender under the Head 'Works' is annexed at Exhibit-A.

There is an overall excess provision of ₹ 1216.84 lac under the Head 'Establishment'. This is mainly due to balance provision of two months salaries to the 'employees' on account of Golden Jubilee of Bhakra Dam.

**(c) Budget Estimates for the year 2014-15**

**2700-Major Irrigation-I-Bhakra Dam 2700-01-129**

(₹ in lac)

	Revised Budget Estimates for the year 2013-14	Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
Works	2672.85	2920.09	(+) 247.24
Establishment	22988.21	23852.61	(+) 864.40
Total	25661.06	26772.70	(+) 1111.64

There is overall excess provision of ₹ 247.24 lac under head "Works", which is mainly due to excess provision under head 'maintenance works' of ₹ 450.38 lac. The detailed description of less/excess provision under the Head: 'Works' is annexed at Exhibit-B.

The provision of ₹ 23852.61 lac under head "Establishment" for the year 2014-2015 has been drawn up focusing actual strength of staff keeping in view the retirement of employees, grant of normal increments and hike in dearness allowance payable to the employees/retirees.

(d) Budget Estimates for the year 2014-15

2700-Major Irrigation-III-Beas Project 2700-01-130

( Figures in lacs of ₹)

	Revised Budget Estimates for the year 2013-14	Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
Works	2931.88	3053.25	(+) 121.37
Establishment	22906.15	23858.85	(+) 952.70
Total	25838.03	26912.10	(+) 1074.07

There is an overall excess provision of ₹ 121.37 lac only under head 'Works'. This is mainly due to excess provision under heads 'major works' of ₹ 85.49 lac. The detailed description of less/excess provision under the Head 'Works' is annexed at Exhibit-B.

The provision of ₹ 23858.85 lac under head "Establishment" for the year 2014-2015 has been drawn up focusing actual strength of staff, keeping in view the grant of normal increments and hike in dearness allowance payable to the employees/retirees and retiral benefits granted to the employees.

**B. POWER WING**

(a) Revised Budget Estimates for the year 2013-14.

2801-Power - Bhakra Left Bank Power Project & Bhakra Right  
Bank Power Project  
2801-01-201 2801-05-201 2801-01-205

( Figures in lac of ₹ )

	Budget Grant for the year 2013-2014	Revised Budget Estimates 2013-2014	Variation (+) Excess (-) Saving
1. <u>Works</u>			
a) <u>Works of Capital Nature</u>			
i. Uprating & Renovation of Bhakra Left Bank Power House	15000.00	7500.00	(-) 7500.00
Total RM&U Works	15000.00	7500.00	(-) 7500.00
iii. Other Capital Nature Works	3483.69	4483.28	(+) 999.59
iv. Total Capital Nature Works	18483.69	11983.28	(-) 6500.41
b) Normal Operation & Mtc. Works (including Suspense)	1245.01	-559.03	(-) 1804.04
c) Total Works (a + b)	19728.70	11424.25	(-) 8304.45
2. Establishment	17141.27	17450.70	(+) 309.43
Grand Total	36869.97	28874.95	(-) 7995.02

The provision of ₹ 7500.00 lac for the work "Uprating and Renovation of Bhakra Left Bank Power House" has been made in Revised Budget Estimates for the year 2013-14 keeping in view the payment to be made to the firm, which result in reduction of expenditure under this Head to the extent of ₹ 7500.00 lac in Revised Budget Estimates for the year 2013-14.

For other Capital Nature Works there is excess provision of ₹ 999.59 lacs. This is mainly due to Capital Mtc. of Unit No. 9 of Bhakra Power Plant-II on this count ₹ 1700.00 lacs has been made in the Revised Budget Estimates for the year 2013-14 against the original budget grant of ₹ 450.00 lacs.

There is a less provision of ₹ 1804.04 lac under Normal Operation Maintenance Head, which is due to provision of ₹ -1428.69 lacs under suspense head.

The detailed description of less/excess provision under Head: 'Works' is annexed at Exhibit-C.

There is an overall excess provision of ₹ 309.43 lac under the Head 'Establishment'. This is mainly due to balance provision of two months salaries to the 'employees' on account of Golden Jubilee of Bhakra Dam.

**b) Revised Budget Estimates for the year 2013-2014**

**2801-Power -Beas Project (Power Wing)**

2801-01-202 2801-01-203 2801-05-204 2801-01-205

(Amount in lac of ₹)

		Budget for the year 2013-14	Grant for the year 2013-14	Revised Budget Estimates for the year 2013-14	Variation (+) Excess (-) Saving
1.					
a)	Works of Capital Nature	3798.94		2899.65	(-) 899.29
b)	Normal Operation & Maintenance Works (including Suspense)	2992.58		3676.14	(+) 683.56
c)	Total Works (a+b)	6791.52		6575.79	(-) 215.73
2	Establishment	11972.57		12043.19	(+) 70.62
	Grand Total	18764.09		18618.98	(-) 145.11

There is a less provision of ₹ 899.29 lac under head 'Capital Nature Works'. The less provision under this head is due to less provision for Procurement of 2 No. 3-phase 75 MVA, 11/220 KV, outdoor type oil immersed water cooled Generator Transformer for Pong Power House, Talwara for which a provision of ₹ 445.83 lacs has been made in RBE 2013-14 against the original budget grant of ₹1200.00 lacs (less ₹ 754.17 lacs), Replacement of existing Generator Protection of Unit No. I, II & IV to VI with Numerical Generator protection having built in disturbance recorder and event logger at PPH, Talwara for which a provision of ₹ 1.00 lacs has been made in

RBE 2013-14 against the original budget grant of ₹ 99.00 lacs (less ₹ 98.00 lacs) and for Replacement of existing Electro Hydraulic Governor G-25 & analogue type electronic cabinet with latest microprocessor based Digital type Electro Hydraulic Governor System of Unit No. 1 to 6 at PPH, Talwara for which a provision of ₹ 1.00 lacs has been made in RBE 2013-14 against the original budget grant of ₹ 100.00 lacs (less ₹ 99.00 lacs)

There is excess provision of ₹ 683.56 lacs under 'Normal Operation & Maintenance Works. The excess provision is due to provision of ₹ 805.84 lacs under head 'suspense' for Dehar Power House against the original budget grant of ₹ 285.00 lacs and for Replacement of static excitation system of Dehar Unit No. 5 & 6 at Dehar Power House for which a provision of ₹ 245.00 lacs has been made in RBE 2013-14 against the original budget grant of ₹ 50.00 lacs (excess ₹ 195.00 lacs), The detailed description for less/excess provision under Head 'Works' is annexed at Exhibit-C.

There is excess provision of ₹ 70.62 lac only under the head 'Establishment' which mainly keeping in view the actual establishment expenditure upto 11/2013.

(c) Budget Estimates for the year 2014-2015

2801-Power Bhakra Left Bank & Bhakra Right Bank Power Projects.

2801-01-201 2801-05-201 2801-01-205

(Figures in lacs of ₹)

		Revised Budget Estimates for 2013-14	Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
a)	<u>Works of Capital Nature</u>			
i.	Uprating & Renovation of Bhakra Left Bank Power Houses	7500.00	12500.00	(+) 5000.00
	Total RM&U Works	7500.00	12500.00	(+) 5000.00



iii.	Other Capital Nature Works	4483.28	6416.82
iv.	Total Capital Nature Works	11983.28	18916.82
b)	Normal Operation & Mtc. Works (including Suspense)	-559.03	914.59
c)	Total Works (a + b)	11424.25	19831.41
2.	Establishment	17450.70	17704.59
	Grand Total	28874.95	37536.00

The provision of ₹ 12500.00 lac for uprating and ren left bank power house has been made for the payment to be made material to be received/execution of work from/by the firm.

There is an excess provision of ₹ 1933.54 lac for works, which is mainly due to Capital Mtc. of Unit No. 6 of BI provision of ₹ 981.00 lacs has been made in BE 2014-15 against ₹1.00 lacs (excess ₹ 980.00 lacs) Evacuation Power from Unit I 220 KV S/Yard Bhakra PP-II for which provision of ₹ 200.00 la against the RBE 2013-14 for ₹ 5.00 lacs (excess 195.00 lac critical 0.3 Sq" goat conductor of R/Road Narela Ckt. Line 1 & 250.00 lacs made in BE 2014-15 against the RBE for ₹ 2 lacs), Replacement of 2 Nos. 45/60 MVA 220/66 KV MITUS at 220 KV Sub Station, Dhulkote for which provision of ₹ 2014-15 (excess ₹ 500.00 lacs) and Re-conductoring of 220 KV Bhakra-Jamalpur DC line with AAAC-465 mm sq. conductor for which a provision of ₹ 175.00 lacs has been made in BE 2014-15 against the RBE 2013-14 of ₹ 25.50 lacs (Excess ₹149.50 lacs).

There is excess provision of ₹ 1473.62 lac under sub-head "Normal Operation and Maintenance" including suspense. This is mainly due to Replacement

of ACSR conductor 0.4 Sq inch of 220 KV Ballabgarh-BTPC D/C line under SDO TL Ballabgarh for which provision of ₹ 350.00 lacs made in BE 2014-15 against the RBE 2013-14 of ₹ 2.00 lacs (excess ₹ 348.00 lacs), Replacement of conventional type disc. Insulator with polymer insulator on left over suspension towers of 220 Ballabgarh-Dadri and Smayput-Dadri lines for which provision of ₹ 102.00 lacs made in BE 2014-15 against the RBE 2013-14 of ₹ 2.00 lacs (excess ₹ 100.00 lacs), The detailed description for less/excess provision under Head 'Works' is annexed at Exhibit-D.

The provision of ₹ 17704.59 lac under the head 'Establishment' for the year 2014-15 has been drawn up focusing actual strength of staff keeping in view the grant of normal increments and hike in dearness allowance payable to the employees/retirees.

**(d) Budget Estimates for the year 2014-2015**

2801-Power –Beas Project (Power Wing)

2801-01-202      2801-01-203      2801-05-204      2801-01-205

(₹ in lac)

		Revised Budget Estimates for the Year 2013-2014	Budget Estimates for the year 2014-2015	Variation (+) Excess (-) Saving
1.				
a)	Works of Capital Nature	2899.65	3652.66	(+) 753.01
b)	Normal Operation & Maintenance Works (including Suspense)	3676.14	3631.77	(-) 44.37
	Total Works (a +b)	6575.79	7284.43	(+) 708.64
2.	Establishment	12043.19	12362.75	(+) 319.56
	Grand Total	18618.98	19647.18	(+) 1028.20

There is an overall excess provision of ₹ 753.01 lacs under head "Capital Nature Works" The excess provision under head "Capital Nature Works" is mainly due

to Procurement of 2 Nos. 75 MVA 11/220 KV generator transformer for Pong Power House, Talwara for which a provision of ₹ 800.00 lacs has been in BE 2014-15 against the RBE 2013-14 of ₹ 1.00 lacs (excess ₹799.00 lacs).

There is less provision of ₹ 44.37 lacs only under head 'Normal Operation & Maintenance Works'. The detailed description for less/excess provision under Head 'Works' is annexed at Exhibit-D.

The provision of ₹ 12362.75 lac under the head 'Establishment' for the year 2014-2015 has been drawn up focusing actual strength of staff keeping in view the grant of normal increments and hike in dearness allowance payable to the employees/retirees.

## 5. CAPITAL EXPENDITURE

The summary of the budget provisions made in the Revised Budget Estimates for the year 2013-14 and the Budget Estimates for the year 2014-15 in respect of capital expenditure of Bhakra Nangal Project and Beas Project is given as under: -

(Amount in lacs of ₹)				
		Budget Grant for the year 2013-14	Revised Budget Estimates for the year 2013-14	Budget Estimates for the year 2014-15
	<b><u>Major Head – 4701 – Capital Outlay</u></b>			
1.	Bhakra Nangal Project (Irr. Wing)	(-) 19.90	(-) 19.70	(-) 19.70
2.	Beas Project (Irrigation Wing)	129.00	129.00	129.00

The reasons for variation in the gross Capital expenditure to be incurred by the Irrigation and Power Wings are given on next page:-

**A Irrigation Wing (Bhakra Nangal Project)**

**Major Head 4700 – Capital Outlay on Major Irrigation – I Bhakra Dam**

The provision in revised budget estimates 2013-2014 under the Head 4700 – Bhakra Dam is ₹ (-) 19.70 lacs against the provision of ₹ (-) 19.90 lacs in original budget estimates 2013-2014. This minus expenditure will be met out of the sale proceeds of surplus stores, the purchase of which has already been charged to the Capital Head of Account. The minus expenditure of ₹ 19.70 lacs proposed for the year 2014-2015 will also be adjusted against the expenditure already incurred on residual capital works.

**B. Beas Project**

**Major Head: 4700 – Capital Outlay on Major Irrigation – I Beas Project.**

The provision in revised budget estimates for the year 2013-2014 is ₹ 129.00 lacs equal to the provision made in original budget estimates 2013-2014 and the same provision of ₹ 129.00 lacs has been made in budget estimates for the year 2014-2015 to make payment to ex-land owners under section 28A/18A of 'Land Acquisition Act'.

**6. NET REVENUE  
EXPENDITURE OF  
PARTNERS**

The requirement of funds from the partner State Governments/State Power Utilities for financing Revenue expenditure of the Bhakra Beas Management Board after deducting the share of Revenue Receipts of Power Wing during 2013-2014 (₹ 299.53 Crores) and 2014-2015 (₹ 291.04 Crores), excluding RM&U works, is given on next page: -

(Amount in lacs of ₹)

	Budget Grant for the year 2013-14	Revised Budget Estimates for 2013-14	Budget Estimates for 2014-15
<b><u>IRRIGATION WING</u></b>			
Punjab Govt.	9747.80	10111.60	10657.42
Haryana Govt.	6378.88	6619.22	6977.62
Rajasthan Govt.	8680.43	8777.71	9491.12
Total	24807.11	25508.53	27126.16
<b><u>POWER WING</u></b>			
P.S.P.C.L.	12747.17	13023.99	15326.42
H.V.P.N.L.	11721.31	11612.70	13674.62
R.V.P.N.L.	8527.15	8445.88	9665.27
H.P.S.E.B.	1969.86	1983.40	2334.75
UT, Chandigarh	958.92	965.48	1136.52
TOTAL	35924.41	36031.45	42137.58

## 7. RM&U WORKS

### **BHAKRA LEFT BANK POWER HOUSE**

The Board in its 177<sup>th</sup> meeting held on 21.02.2002 at Chandigarh administratively approved the renovation, modernization and uprating of Bhakra Left Bank Power House to be carried out under Accelerated Generation & Supply Programme (AG&SP) through global tendering process. A sum of ₹ 7500.00 lacs and

₹12500.00 lacs has been provided for the aforesaid work in the Revised Budget Estimates for the year 2013-2014 and Budget Estimates for the year 2014-2015 respectively for making payment to the firm. Loan to the extent of 80% of expenditure has been arranged by State Electricity Utilities and balance 20% is to be provided by the partner State Electricity Utilities from their own resources. The shares of the partner State Electricity Utilities in the expenditure of above mentioned works are as under:-

	Budget Estimates for the year 2013-14	Revised Budget Estimates for the year 2013-14	Budget Estimates for the year 2014-15
P.S.P.C.L.	6587.41	3293.70	5489.51
H.V.P.N.L.	4770.15	2385.07	3975.12
R.V.P.N.L.	2283.00	1141.50	1902.50
H.P.S.E.B.L.	914.35	457.18	761.96
UT, Chd.	445.09	222.55	370.91
TOTAL	15000.00	7500.00	12500.00

#### 8. SHARING OF NET CAPITAL EXPENDITURE

The requirement of funds from the partner State Govts. during the year 2013-14 (Revised) and 2014-2015 (Proposed) for financing the Capital expenditure of Bhakra and Beas Project is given on next page:-

*[Handwritten Signature]*

### BHAKRA – Revised Budget Estimates 2013-2014

The provision under the Major Head 4700- Bhakra Dam is minus. The minus expenditure will be adjusted against the expenditure already incurred on residual capital works for which no funds were provided by the Partner State Governments as explained in Para no. 2 above.

### BHAKRA – Budget Estimates 2014-2015

The provision under the Major Head 4700- Bhakra Dam is minus. The minus expenditure will be adjusted against the expenditure already incurred on residual capital works for which no funds were provided by the Partner State Governments as explained in Para no. 2 above.

#### **B. BEAS PROJECT**

(Amount in lacs of ₹)

	Irrigation Wing	Power Wing	Total
<b><u>(Revised) 2013-2014</u></b>			
<u>Net Expenditure</u>			
Punjab	24.57	7.55	32.12
Haryana	16.38	5.03	21.41
Rajasthan	57.73	17.74	75.47
Total	98.68	30.32	129.00
<b><u>Budget Estimates 2014-2015</u></b>			
<u>Net Expenditure</u>			
Punjab	24.57	7.55	32.12
Haryana	16.38	5.03	21.41
Rajasthan	57.73	17.74	75.47
Total	98.68	30.32	129.00

**9. PERFORMANCE  
BUDGETING/PHYSICAL  
PERFORMANCE**

The data relating to physical performance i.e. the Generation Target and the actual generation achieved during the last five years in various Power Houses is given as under:-

Year	Installed Capacity (MW)	Generation Target (MU)	Actual Generation (MU)
<b>Bhakra Complex, Ganguwal &amp; Kotla Power Houses:</b>			
2008-09	1478.73	5960	6588
2009-10	1478.73	5334	5606
2010-11	1478.73	5340	6660.45
2011-12	1478.73	5900	7382.93
2012-13	1478.73	5900	5955.18
2013-14 (Projected)	1514.73	5900	4409.54 (Actual upto 09/2013)
<b>Dehar Power Plant:</b>			
2008-09	990	3000	3094
2009-10	990	2895	2938
2010-11	990	3052	3312.98
2011-12	990	3000	3254.85
2012-13	990	3000	3220.47
2013-14 (Projected)	990	3000	2342.33 (Actual upto 09/2013)
<b>Pong Power Plant:</b>			
2008-09	396	1123	1489
2009-10	396	881	951

SP



2010-11	396	883	1347.25
2011-12	396	1123	1852.83
2012-13	396	1123	1824.04
2013-14	396	1123	721.58 (Actual upto 09/2013)

The position of in-flow and release from Bhakra Dam Reservoir and Pong Dam Reservoir during the last five years is given as under: -

**Bhakra Dam Reservoir**

Live Storage capacity at 1680 ft. = 4.870 M.A.F.  
Dead Storage capacity at 1462 ft. = 1.252 M.A.F.

<b><u>IRRIGATION</u></b>		
<b><u>Bhakra Dam</u></b>		
<b><u>Year</u></b>	<b><u>Inflow MAF</u></b>	<b><u>Release MAF</u></b>
2008-09	14.926	14.205
2009-10	12.421	13.193
2010-11	17.191	15.721
2011-12	15.556	16.261
2012-13	13.264	13.094
2013-14	15.754 (Actual upto 10.11.13 & assumed thereafter)	15.935 (Actual upto 31.10.13 & assumed thereafter)

**Pong Dam Reservoir**

Live Storage capacity at 1390 ft. = 4.837 M.A.F.  
Dead Storage capacity at 1260 ft. = 0.879 M.A.F.

<b><u>Year</u></b>	<b><u>Inflow MAF</u></b>	<b><u>Release MAF</u></b>
<b><u>IRRIGATION</u></b>		
2008-09	7.354	6.495
2009-10	4.167	4.875

2010-11	7.725	5.984
2011-12	8.043	8.959
2012-13	8.066	8.479
2013-14	8.062 (Actual upto 20.11.13 & assumed thereafter)	8.381 (Actual upto 20.11.2013 & assumed thereafter)

### 10. STAFF POSITION

The staff position during the last three years is as under: -

Sr. No.	Date	Sanctioned strength of employees	No. of employees in position
1.	31.03.2011	14938	10750
2.	31.03.2012	14906	10210
3.	31.03.2013	14946	10011

The details of Revenue Expenditure during the last five years are given at Page 35-36.

*[Handwritten signature]*

LIST OF WORKS SHOWING EXCESS/ LESS PROVISION IN REVISED BUDGET FOR THE YEAR 2013-14 IN RESPECT OF IRRIGATION WING.				
Sr. No.	Description	2013-14		Variation excess/less
		Original Budget	Revised Budget	
(A) BHAKRA				
1	Prov. & fixing 12.5 feet high fencing in along the roads on L&R side bank of Bh. Reserviur	30.00	50.00	20.00
2	Dam Break Analysis of Bh. Dam from NIH Roorkee	26.47	0.00	-26.47
3	Renovation of 170 No. quarters C-type two room quarter & DR Class-IV quarter in FF & JJ Block at Nangal.	20.00	40.00	20.00
4	Construction of 500 No. quarters (double story for employees of BBMB in place of old quarters to be dismantled in A to C and G Block) at Nangal.	60.00	500.00	440.00
5	Const. of new PRO office and lounge with parking and laboratory block in B&B design Directorate complex at Bh. Road, Nangal.	20.00	0.50	-19.50
6	Const. of Indoor stadium at Nangal including professional Architectural Services	150.00	40.00	-110.00
7	Memo for designing prov. Installation & commissioning of integrated security & surveillance system for Bh. Dam	25.00	340.00	315.00
8	Obtaining Echo sounder in silt Survey Sub Divn., Nangal.	0.00	24.50	24.50
9	Purchase of diving dresses/ equipments required for diving team.	0.00	26.35	26.35
10	Est. for manufacture of 1 No. set (13 pics) of stop logs as replacement for existing (old & used) of RHR of Nangal.	0.00	11.00	11.00
(B) BEAS				
1	Replacement of 11 KV OCBs (2 Nos.) with new VCBs (2 Nos.) for main incomer 1 & 2 at Control room, Pandoh Dam.	1.00	18.00	17.00
2	Est. for prov. & installation of New guide for fixing frash rack of PBT intak pit of Pandoh.	15.00	5.00	-10.00
3	Security equipment as per IB report/ CCTV camera QRT vehicle.	20.00	10.00	-10.00
4	Memo for fabrication of 2 No. Bullet proof watch tower for Pandoh Dam.	15.00	1.00	-14.00
5	Prov./ fitting & commissioning of two No. 12 KV vacuum circuit breaker sutable for existing HT panel installed at BCW complex.	2.00	15.00	13.00
6	Providing/Fitting and commissioning of one No. bus coupler, Two No air circuit breaker (ACB),MCCBs contractor & limit switches for existing L.T Panel R/E Gate panel/Hoist at BCW	13.00	1.00	-12.00
7	Channeliesation of Nallah along SNR hydel Channel on left side form RD 18000 to RD 18400 ft adjoining kansa	15.00	1.00	-14.00
8	Restoration of damaged portion D/S of Ghangal Aqueduct.	6.00	20.00	14.00
9	Replacement of old compressed air pipe line from compressor room to BCW complex by 3" dia GI pipe heavy duty with complete fitting	12.50	0.00	-12.50
10	Procurment of 1 no. 125 HP VT pump in water works BBMB, Colony, Sundernagar alongwith 1 HP centrifugal mono block pump in water storage tank	0.00	15.00	15.00
11	Construction of 90 No. new S-2 type houses Phase-III.	80.00	94.00	14.00
12	Remodeling and repair of old drains along main, circular and link roads in BSL Colony Sundernagar.	15.00	0.00	-15.00
13	Procurement of One No. 120 HP V.T. Pump.	12.50	0.00	-12.50
14	R&M of seismological Lab. At Sundernagar and shimla	0.00	17.00	17.00
15	Obtaining 1 No. Foam and CO2 type fire tender for BSL Project in replacement of old fire tender RL-352.	15.00	0.00	-15.00
16	Replacement of 2 Nos. Fire Tenders i.e. RL-354 and RL-368	0.00	30.00	30.00
17	Replacement of Exiting 7 No's Oil Circuit Breaker(2 No's in coming & 5 No's Outgoing)with latest ACB for DPH, BBMB colony, S/Shaft, Gate Chamber, Switch Yard &Commercial Feeders at Slapper Sub-Station.	1.00	40.00	39.00

*[Handwritten signature]*

18	To replace 4 Nos in coming H.T. Oil circuit breakers and 8 Nos out going O.C.B in 11 kv control room at BSL ( P) Sundernagar and renovation of control room.	60.00	50.00	-10.00
19	Repair of American moto crane CL-16( Crane side)	18.00	0.00	-18.00
20	Procurement/out sourcing of 3 No. Tavera/ Maruti/Gypsy kind hard top in replacement of old vehicles Maruti VAN VL-88 and Maruti car-96 and Maruti Gypsy VL-71	20.00	5.00	-15.00
21	All geared high precision lethe confirming machine cont. to standard of grade A as per IS 1778 accurate with fitness and accessories.	18.00	3.00	-15.00
22	Replacement of 2 Nos Buses of 42 seater against replacement of BL-112 & BL-113, Proc. Of 1 No. TATA buses 43 seater model 1512 TC in built in replacement of bus BL-114	20.00	1.00	-19.00
23	Estimate for renovation of D Type houses(68 Nos.) in BBMB Colony, Sector 35-B, Chandigarh.	25.00	10.00	-15.00
24	liabilities to other works(Providing Protection to Suketi diversion channel from R.D 0-7800)Providing Protection to Suketi Diversion Channel from RD-0 to 2200 and RD-7400 to 7800 u/s & d/s of V.R. Bridge at Sundernagar.	0.00	15.00	15.00
25	const. of Motorable bridge over Suketi Khad near vilalge Manglah.	70.00	1.00	-69.00
26	Est. for carrying out review of GTS & reference bench marks at Beas Dam by Survey of India.	0.00	26.00	26.00
27	Replacement / Modernization of 3 no. elevators on Beas Dam.	30.00	45.00	15.00
28	Replacement of Two nos. Tata Trucks of modal I210 with modal 1510 for use in Beas Dam BBMB Talwara .	45.00	30.00	-15.00
29	Special repair of crane(CB-49) working at Beas Dam BBMB Talwara.	20.00	30.00	10.00
30	Replacement of old pipe line (IWS) from ferrule to bathroom in 300 no. T-1toT-5 houses in sector 1,2&3 in BBMB colony at Talwara.	18.00	0.00	-18.00
31	Obtaining One No. D.G. set of suitable capacity for use at STPat sector -4 Talwara	22.00	32.00	10.00
32	Recovery bill in respect of Seismological Observatories on account of levy of service tax for the year 2007-08 to 2011-12	0.00	17.01	17.01
	Other Misc. Works (including Mtc. & Suspense)	3951.99	4040.37	88.38
	<b>G. Total (Bhakra &amp; Beas)</b>	<b>4872.46</b>	<b>5604.73</b>	<b>732.27</b>

*[Handwritten signature]*

LIST OF WORKS SHOWING EXCESS/ LESS PROVISION IN RESPECT OF BUDGET ESTIMATE 2014-15 OF				
IRRIGATION WING				
Sr. No.	Description	Revised Budget	Proposed Budget	Variation excess/less
		2013-14	2014-15	
(A) BHAKRA				
1	Replacement of Old Electric stationery Air Compressor by New One at RL-1400 at Bh. Dam.	56.20	0.00	-56.20
2	Providing and fixing 12.5 feet high fencing in along the roads on L&R side banks of Bhakra Reservoir	50.00	0.00	-50.00
3	Raising of walls at various reaches along Bhakra Nangal road protection from slippage of hills sides.	0.00	20.00	20.00
4	Dam Break Analysis of Bhakra dam from N.I.H. Roorkee	0.00	26.47	26.47
5	Memo for conversion of Technical Record in E-Format	0.00	17.10	17.10
6	Providing one No. Tube well in DD - Block at Nangal	15.80	4.00	-11.80
7	Renovation of 170 No. Quarters C-type two room Quarter & D.R. Class-IV quarter in FF & JJ Block at Nangal	40.00	50.00	10.00
8	Construction of 500 No. quarters (double story for employees of BBMB in place of old quarters to be dismantled in A to C and G Block) at Nangal.	500.00	300.00	-200.00
9	Providing Marble tiles on walls in Hall and Kota stone flooring on back side kitchen and court yard in BBMB Community Hall at Nangal	0.00	15.04	15.04
10	Providing Kota stone floor tiles in 20 No. class rooms and corri-door and renovation of Bath rooms of DAV Public School Nangal Township	0.00	31.56	31.56
11	Providing and laying cement concrete pucca approach roads in officers bungalows at Nangal Township	0.00	15.00	15.00
12	Providing boundary walls around RVR Bungalow (11 to 22 RVR) at	0.00	13.44	13.44
13	Construction of new PRO Office and lounge with parking and laboratory block in B&B Design Directorate complex at Bh. Road, Nangal Township.	0.50	25.00	24.50
14	Construction of Indoor stadium at Nangal including professional Architectural Services	40.00	210.00	170.00
15	Construction of Boundary wall around proposed indoor stadium at Nangal Township	0.00	28.00	28.00
16	Renovation of 24 Nos. quarter Regulation Beldar quarter at Nangal Dam (Head Works Section)	5.00	34.00	29.00
17	Renovation of Office Building of Nangal Dam Division	1.00	32.00	31.00
18	Renovation of 28 No. quarter Regulation Beldar at Ganguwal Colony	0.00	25.00	25.00
19	Renovation of 36 No. quarters LIG/DS at Cancal Colony, BBMB Kotla	0.00	25.00	25.00
20	Replacement of Dehumidifying Plant BH. At RL-1328	60.00	0.00	-60.00
21	Memo for designing providing installation and commissioning of integrated security and surveillance system for Bhakra Dam	340.00	200.00	-140.00
22	Obtaining Echo Sounder in Silt Survey Sub Division, Nangal	24.50	0.00	-24.50
23	Purchase of Diving Dresses/Equipments required for Diving Team	26.35	0.00	-26.35
(B) BEAS				
1	Renovation of Memorial at Dam Site pandoh	1.00	15.00	14.00
2	Replacement of 11KV OCBs(2 Nos.) with new VCBs(2Nos) for main incomer 1 & 2 at Control room Pandoh Dam.	18.00	0.00	-18.00
3	Replacement of sewerage line from Gurudwara to STP	5.00	20.00	15.00
4	Providing and fixing chain linked fencing with barbed wire at top on up stream side of Pandoh Dam at Both ends.	5.00	20.00	15.00
5	Illumination of left & right bank/upstream & downstream -500 mtr.Each side of river Beas at Pandoh Dam	19.00	0.00	-19.00
6	Providing /Fitting and commissioning of Two No. 12KV vacuum circuit breaker suitable for existing HT panel installed at BCW complex.	15.00	0.00	-15.00
7	Restoration of Kansa aqueduct and chail aqueduct of Sundernagar hydel Channel.	1.00	19.00	18.00
8	Channelisation of Nallah along SNR hydel Channel on left side form RD 18000 to RD 18400 ft adjoining kansa aqueduct.	1.00	19.00	18.00

9	Supply erecting testing & commissioning of two No electric division submersible pumps with motor & other related accessory with automatic control system at Baggi control works gallery. Suitable for 125 feet head having discharge capacity 5000 lt/per minute.	0.00	24.50	24.50
10	Re-construction of side drain and a falls along SNHC.	15.00	5.00	-10.00
11	Restoration of damaged portion D/S of Gaghangal Aqueduct.	20.00	0.00	-20.00
12	Laying premix carpet on the existing road on the bank of SHC and balancing reservoir (r/s from RdLaying premix carpet on the existing road on the bank of Sundernagar Hydrel Channel and balancing reservoir (r/s from RD 42.06 mtr. To 1180.19 mtrs.) And L/S from Rd1180.90 (DR bridge at Baggi) to 9968.18 mtrs. (AR bridge Dhanotu) of Hydrel Channel and L.S of BR from RD 0 to 2100 mtr upto field offices at pung.	1.00	59.00	58.00
13	Procurement of wheel excavation Loader in replacement of Tractor type front end loader (CL-100)	0.50	17.00	16.50
14	Construction of 90- No. new S-2 type houses Phase-III.	94.00	0.00	-94.00
15	Proc. of 1 No. 125 HP VT pump in water works BBMB Colony Sundernagar along with 1 HP centrifugal mono block pump in water storage tank.	15.00	0.00	-15.00
16	Renovation of Preparatory Model School at Sundernagar	0.50	20.00	19.50
17	Renovation/providing mouldular furniture in central office complex and Xen's rooms(E&W/shop, HC&BG, BRSC&PD, PS&D, HRD, Water Regulation)	5.00	25.00	20.00
18	Renovation of 5 Nos. S-5 type house and 10 nos.S-4 type houses, 15 no. S-3 type houses & 25 no S-2 type houses in BBMB Colony Sundernagar (HP)	15.00	25.00	10.00
19	Renovation of Dy. C.A.O. office complex at Sundernagar (HP)	1.00	20.00	19.00
20	Construction of boundary wall around over head tank in S-1 area and pump house in new colony area alongwith construct of 2 nos. gentry structure for submersible pump sets in new colony and water works at BBMB Colony Sundernagar (HP)	15.00	5.00	-10.00
21	Laying of premix carpet on main central road from Suket Sadan to T-junction on Bilaspur Mandi Road, circular road No. 1 from Hospital Chowk to Workshop Gate A and link roads with providing of sign boards and speed breakers on roads of BSL Colony at Sundernagar.	0.00	40.00	40.00
22	R&M of Seismological Lab. at Sundernagar and Shimla.	17.00	0.00	-17.00
23	Obtaining 1 No. Foam and CO2 type fire tender for BSL Project in replacement of old fire tender RL-352.	0.00	30.00	30.00
24	Replacement of Existing 7 No's Oil Circuit Breaker(2 No's in coming & 5 No's Outgoing)with latest ACB for DPH, BBMB colony, S/Shaft, Gate Chamber, Switch Yard &Commercial Feeders at Slapper Sub-Station.	40.00	0.00	-40.00
25	Proc. of 2 Nos. 1512 TC 52 Seater Bus in replacement of BL-110 & BL-	20.00	0.00	-20.00
26	To replace 4 Nos in coming H.T. Oil circuit breakers and 8 Nos out going O.C.B in 11 kv control room at BSL ( P) Sundernagar and renovation of control room.	50.00	5.00	-45.00
27	Replacing of ACSR 11 KV double feeder from Sundernagar to Baggi (BCW) with aerial bunched cable 11 K.V. of size 3x120+95 ACSR Conctors double feeder from Sundernagar to Baggi	0.00	50.00	50.00
28	To replace one Nos. TMB trunk RL-363 (HP-31-3510	0.00	16.64	16.64
29	Replacement of 2 Nos Buses of 42 seater against replacement of BL-112 & BL-113, Proc. Of 1 No. TATA buses 43 seater model 1512 TC in built in replacement of bus BL-114	1.00	20.00	19.00
30	Estimate for renovation of D Type houses(68 Nos.) in BBMB Colony, Sector 35-B, Chandigarh.	10.00	50.00	40.00
31	liabilities to other works(Providing Protection to Suketi diversion channel from R.D 0-7800)Providing Protection to Suketi Diversion Channel fromRD-0 to 2200 and RD-7400 to 7800 u/s & d/s of V.R. Bridge at Sundernagar.	15.00	0.00	-15.00
32	Repair of damages of Suketi diversion channel during the rainy season 2014-15	0.00	15.00	15.00
33	Est. for carrying out review of GTS & reference bench marks at Beas Dam by Survey of India. (61100110)	26.00	6.00	-20.00
34	Providing and laying premix carpet (renewable coat) on V-2, V-5 roads & internal roads in office complex area in BBMB colony at Talwara Township.( Phase - II )	74.00	0.00	-74.00

35	Providing and laying premix carpet (renewable coat) on V-6 roads, roads in front of SCF/SCR in sector-1, 2, 3 in BBMB colony at Talwara Township.	65.00	0.00	-65.00
36	Outsourcing the work of sanitation and conservancy and disposal of solid waste by segregation at door steps in BBMB colony at Talwara.	15.00	32.00	17.00
37	Constructing solid waste disposal pits, fencing of area for implantation of solid waste under Act, 2000 in BBMB Colony Talwara	13.00	3.00	-10.00
38	Replacement of existing old conglomerate flooring of room of BBMB DAV public school Talwara with kota stone flooring (phase -1)	21.50	0.00	-21.50
39	Outsourcing the work of running & maintenance of Rock Garden at Talwara T/ship	12.00	24.00	12.00
40	Renovation of auditorium hall in officers club premises by replacing roofing and false ceiling etc Talwara.	0.00	20.00	20.00
41	Outsourcing of 5 No. jeeps with Bolero/Tavera/Tata-Sumo at Beas Dam BBMB Talwara.	0.00	17.00	17.00
42	Replacement of 2 No. jeeps with Bolero/Tavera/Tata-Sumo.	14.00	0.00	-14.00
43	Replacement / Modernization of 3 no. elevators on Beas Dam.	45.00	0.00	-45.00
44	Replacement of Two nos. Tata Trucks of modal 1210 with modal 1510 for use in Beas Dam BBMB Talwara	30.00	15.00	-15.00
45	Special repair of crane(CB-49) working at Beas Dam BBMB Talwara.	30.00	5.00	-25.00
46	Obtaining one no. Truck part of (250-260 HP) of the Truck Tractor for use on Beas Dam BBMB Talwara	30.00	0.00	-30.00
47	Purchase one No. water tender type-B bus chassis Tata model LPT-turbo 1613/41 in replacement of old water tender type-B RB-166 (PB-07A-9936)	13.00	0.00	-13.00
48	Replacement of old pipe line (IWS) from ferrule to bathroom in 300 no. T ItoT-5 houses in sector 1,2&3 in BBMB colony at Talwara.	0.00	18.00	18.00
49	Obtaining One No. D.G. set of suitable capacity for use at STPat sector -4 Talwara	32.00	0.00	-32.00
50	Recovery bill in respect of Seismological Observatories on account of levy of service tax for the year 2007-08 to 2011-12	17.01	0.00	-17.01
	Other Misc. Works (including Mtc. & Suspense)	3607.87	4241.59	633.72
	<b>G. Total (Bhakra &amp; Beas)</b>	<b>5604.73</b>	<b>5973.34</b>	<b>368.61</b>

EP

-436

LIST OF WORKS SHOWING EXCESS/ LESS PROVISION IN REVISED BUDGET FOR THE YEAR 2013-14 IN  
RESPECT OF POWER WING.

Sr. No.	Description	2013-14		Variation excess/less
		Original Budget	Revised Budget	
(A) BHAKRA				
1	RM &U Of Bhakra PP-I.	15000.00	7500.00	-7500.00
2	Evacuation Power From Unit No.1 Of Bh. Pp-I To 220Kv S/Yard Bhakra PP-II	145.00	5.00	-140.00
3	Prov 1 No Diesel Generating & Prov 2 No.Submuersible Pumps Of Cap.10000 Ltr.Per Min.At Bh PP-I	85.00	20.00	-65.00
4	R&R Of Control Air Conditioning System Of 42 Ton Capacity With 72 Ton Capacity Of Bhakra PP-I	20.00	60.00	40.00
5	R&R Of Existing Important 11Kv,3.3Kv & 0.415Kv Power Cables With Xlpe&Pvc Power Cables At Various Inter Connections Of Aux Power Supply System At Bhakra PP-I.	1.00	45.00	44.00
6	Prov. 1 No.Diesel Generating Set Of 500Kva 0.4Kv Alongwith Allied Equipment Control Panel Etc.Pp-Ii & Prov.2 No. Submuersible Pumps Of Cap.10000 Ltr.Per Min.At Bh.PP-II	65.00	20.00	-45.00
7	Providing Of 2 Set Of Brake Disk Segment For Units Of Bhakra Right Bank Power House.	100.00	1.00	-99.00
8	Capital Mtc. Of Unit No. 9 Of Bhakra Pp-II	450.00	1700.00	1250.00
9	Capital Mtc Of Unit No.6 Of Bhakra Pp-II.	180.00	1.00	-179.00
10	R&R Of 35 Nos Current Transformers (Cts) Of Units And Feeders And 220Kv Switchyard Bhakra Right Bank	55.00	1.00	-54.00
11	Prov. Numerical Generator Protection Scheme For All Units Of Bhakra Right Bank Power House	70.00	1.00	-69.00
12	Providing 19 Nos 220 Kv Pt'S Inrespect Of 4 Nos Outgoing Feeders And 3 Nos Bus-Sections At 220 Kv Switchyard Bhakra Pp-II.	60.00	1.00	-59.00
13	Renovation Of Eb Colony Providing Glazed Tiles In Bathrooms Of Various Type Of Quarters In Eb Colony At Nangal In View Of Golden Jublee Celebration	65.00	1.00	-64.00
14	Procurement Of Spares From Russia For Right Bank Machine	0.00	-1550.00	-1550.00
15	Procurement Of Modular Furniture Under The Admn Of Ce/Generation.	80.00	10.00	-70.00
16	Procurement Of Russian Spares For Governor And Turbine Mechanism And Excitation System Of Bhakra Right Bank Machines	50.00	1.00	-49.00
17	Replacement Of Bhel Make Runner With New Runner Of Unit No-2 At Ganguwal Power House	0.00	60.00	60.00
18	Replacement Of Bhel Make Runner With New Runner Of Unit No-3 At Kotla Power House	0.00	60.00	60.00
19	Providing 2 Nos Submersible Pumps At Ganguwal P.H.	40.00	0.00	-40.00
20	Providing 2 Nos Submersible Pumps At Kotla P.H.	40.00	0.00	-40.00
21	R&R Of 4 Nos. L.T. Control Panels Alongwith L.T. Breakers & Remote Indication At Kotla Ph	5.00	51.00	46.00
22	R&R Of Existing 132/33,16 Mva Tfr (T-3) With New One At Ganguwal.	140.00	2.00	-138.00
23	Prov. 11/132 Kv,34.0/32.5 Mva Three Phase 50Hz Water Cooled Generator T/F Complete With All Fitting Acessories And Fire Protection System At Kotla Ph	230.00	292.00	62.00
24	Carrying Out Under Wate Videography , Cutting , Welding & Other Allied Works On The Guide Track Of Draft Tube Gates Of Unit No. 3 At Kotla Ph.	0.00	48.00	48.00
25	Carrying Out Under Water Videography Of All The Draft Tube Gates ( 3 Nos With Each Unit) Of The Remaining 5 No Units At Ganguwal & Kotla Power Houses.	0.00	45.00	45.00
26	Carrying Out Under Water Repairs / Replacement Of The Damaged / Deteriorated Guide / Track Of The Draft Tube Gates After Videography In Respect Unit No. 3 Kotla Power House.	0.00	100.00	100.00



27	Carrying Out Repair /Repalcement Of Under Water 6 Nois Guide Track Meant For Trashrack Gates Of Unit No-I At Forebay Of Ganguwal Power House .	0.00	70.00	70.00
28	Providing Sewerage Treatment Plant At Ganguwal.	50.00	0.00	-50.00
29	R&R Of L.T. Distribution Panels Its Sub Distribution & Cables Emanating From Them To The Sf-6 Breakers And Switchyard Lighting At 220 Kv, Miss, Ganguwal.	5.00	30.00	25.00
30	Providing Of Spares Of Digital Governor Of Unit No.1 At Gangwual & Kotla Power Houses	97.00	1.00	-96.00
31	Replacement of conventional type disc. Insulator with polymer insulator on left over suspension towers of 220KV B/Garh-Dadri & S/pur-Dadri lines.	132.00	2.00	-130.00
32	Replacemnet of ACSR conductor 0.4 Sq inch of 220 KV Ballabgarh-BTPS D/C line under SDO TL Ballabgarh	50.00	2.00	-48.00
33	Replacement of damaged 16 MVA 66/33 KV Transformer with 16 MVA 66/33 KV Transformer at 220 KV Sub Station Ballabgarh.	50.00	121.00	71.00
34	Est. for replacement of 10 No. NGEF make 220 KV SF-6 breakers with new one at 220 KV substation, BBMB, Jalandhar.	60.00	26.00	-34.00
<b>(B) BEAS</b>				
1	Providing Fire Barriers In Cable Tunnels,Cable Spreading Arca,Fire Doors At Exist & Entry Of Cable Tunnels/Cable Tunnels At DPH.	28.00	1.00	-27.00
2	Estimate For Supply Supervision Of Installation And Commissioning Of On Line Vibration Monitoring System For 6 No Dehar Machine At DPH BBMB PW Slapper.	13.00	43.29	30.29
3	Providing New Mobile Hydraulic Crane In Place Of 31.5 Mt Old Mobole Coles Crane Bearing Sr No 36-44 At Dehar S/ Yard Slapper	2.50	26.73	24.23
4	Replacement Of Static Excitation System Of Dehar Unit No.5& 6 At DPH.	50.00	245.00	195.00
5	Capital Mtc. Of Dehar Unit No.1 During 2012-2013	50.00	0.00	-50.00
6	Capital Mtc. Of Dehar Unit No.6 During 2012-2013	130.00	186.80	56.80
7	Providing Tan Delta Capacitance Measurement Instrument At DPH Slapper	28.00	0.00	-28.00
8	Capital Mtc. Of Dehar Uite No. 2 During The Year 2013-14.	469.00	615.00	146.00
9	Capital Mtc. Of Dehar Unite No. 3 During The Year 2013-	429.00	200.00	-229.00
10	Over Hauling Of Bfv No. 2 During The Year 2013-14	123.21	98.00	-25.21
11	Capital Mtc. Of Rotary Valve Controlling Dehar Unit No. 3&4 During The Year 13-14.	279.00	95.00	-184.00
12	Requisitioning The Services Of Engineer & Technical Personnel From M/S Bhel And Material Required To Rectify The Fault In Stator Winding And Core Of Dehar Unit No.6 Due Fault Occurred On Dt.8.8.2013 At 20.48 Hrs.	0.00	275.00	275.00
13	Replacement Of 5 Nos. Machine Breakers At Dehar S/Yard BBMB (PW), Slapper.	85.00	2.00	-83.00
14	Replacement Of 6 Nos Abcbat Dph Slapper	143.00	2.00	-141.00
15	Revised Estimate For Replacement Of Roofing Of E-4 Type (25) & SI-4 Type (13) Qtrs. In Bbmb Colony At Slapper.	38.00	5.00	-33.00
16	Revised Estimate For Replacement Of Roofing Of SI-2 Type Qtrs. At Slapper Colony .	41.00	1.00	-40.00
17	Annual Running Of Buses For O& M Staff, School/College Students & Mini Bus For Ae/ Aee At Slapper. During 2013-	38.00	123.57	85.57
18	Procurement Of Bhel Spares For Rotary Valves ,Turbines &Generator Spares.	0.00	80.00	80.00
19	Procurement Of One Set Of Hvof Coated & 3 Sets Without Hvof Coated Top & Bottrom Labyrinth Alongwith Fasteners For DPH	0.00	107.00	107.00
20	Procurement Of Bhel Spares For Rotary Valves,Turbines &Generator Spares For All 6 No. Machines At DPH.	140.00	424.67	284.67
21	Procurement Of Governors Spare For Newly Commissioned Micro Processor Basis Digitl Electro Hydro Governors	145.00	170.00	315.00

22	Procurement of spares for 4 sets of micro processorbased Automatic digital voltage regulator type static excitation equipments at DPH slapper.			
23	Procurement Of One No Circuit Breaker Analyzer Alongwith Dynamic Contact Resistance Meter At Pph Talwara.	1.00	41.00	40.00
24	Replacement Of 2 Nos. Main Stator Air Coolers Of Unit No 2 & 4 With New Ones At Pph Talwara	1.00	38.00	37.00
25	Replacement Of Existing Generator Protection Of Unit No.I, II & IV To VI With Numerical Generator Protection Having Built In Disturbance Recorder And Event Logger At Pph Talwara.	99.00	1.00	-98.00
26	Procurement Of 02 No. 3-Phase 75 Mva, 11/220Kv, Outdoor Type Oil Immersed Water Cooled Generator Transformer For Pong Power House, Talwara.	1200.00	445.83	-754.17
27	Replacement Of Existing Electro Hydraulic Governor G-25& Analogue Type Electronic Cabinet With Latest Microprocessor Based Digital Type Electro Hydraulic Governor System Of Unit No. 1 To 6 At Pph Talwara.	100.00	1.00	-99.00
28	Capital Mtc. Of Pph Unit No.3.	10.00	200.00	190.00
29	Procurement Of 18 Nos. 220 Kv, Ct'S Installed At Pong Switchyard Talwara.	55.00	0.00	-55.00
30	Refund Of Rs 5720013/- Out Of 1.64 Crores Deposited By Hpseb In 1993-94 For Provision Of 20 Mva Power System In Industrial Area Sansarpur Terrace Distt. Kangra Hp.	0.00	57.00	57.00
31	Procurement of 71.66 MVAR reactor at 400 KV S/S, Panipat for replacement of damaged reactor	465.00	2.00	-463.00
32	Carryingout the Hot line washing of most critical tower of 400 KV Dehar-Panipat line.	0.00	37.40	37.40
33	Replacement of damaged 166.67 MVA 400/220/33 KV Single Phase Transformer T-2 (to be kept as spare) at 400 KV Sub Station Bhiwani	700.00	615.00	-85.00
34	Replacement of Emulsifier System with NIFPES for 500 MVA 400/220 KV ICT Bank and 2 No. 50 MVAR Reactors at 400 KV Sub Station Bhiwani	10.00	70.00	60.00
35	Replacement of 28 Nos 245 KV pneumatic controlled isolators with motorised controlled at 220 KV sub station Dadri	10.00	69.00	59.00
	Other Misc. Works (including Mtc. & Suspense)	4312.51	4994.75	682.24
	<b>G. Total (Bhakra &amp; Beas)</b>	<b>26520.22</b>	<b>18000.04</b>	<b>-8520.18</b>

**Exhibit-D**  
(Figures in lacs)

LIST OF WORKS SHOWING EXCESS/ LESS PROVISION IN RESPECT OF BUDGET ESTIMATE 2014-15				
OF POWER WING				
Sr. No.	Description	Revised Budget	Proposed Budget	Variation excess/less
		2013-14	2014-15	
(A) BHAKRA				
1	RM &U Of Bhakra PP-I.	7500.00	12500.00	5000.00
2	Evacuation Power From Unit No.1 Of Bh. Pp-I To 220Kv S/Yard Bhakra PP-II	50.00	200.00	150.00
3	R&R Of Control Air Conditioning System Of 42 Ton Capacity With 72 Ton Capacity Of Bhakra PP-I	60.00	2.00	-58.00
4	R & R Of Existing 6 Nos Water Pressure Filters With New Filters Of Latest Technology.	0.10	53.90	53.80
5	Providing Of 2 Set Of Brake Disk Segment For Units Of Bhakra Right Bank Power House.	1.00	114.34	113.34
6	Capital Mtc. Of Unit No. 9 Of Bhakra Pp-II	1700.00	23.00	-1677.00
7	Capital Mtc Of Unit No.6 Of Bhakra Pp-II.	1.00	981.00	980.00
8	R&R Of 35 Nos Current Transformers (Cts) Of Units And Feeders And 220Kv Switchyard Bhakra Right Bank	1.00	150.00	149.00
9	Prov. Numerical Generator Protection Scheme For All Units Of Bhakra Right Bank Power House	1.00	70.00	69.00
10	Providing 19 Nos 220 Kv Pt'S Inrespect Of 4 Nos Outgoing Feeders And 3 Nos Bus-Sections At 220 Kv Switchyard Bhakra Pp-II.	1.00	57.00	56.00
11	R&R Of Old Non FrIs Pilca Control And Power Cables With FrIs, Pvc Insulated Cables Running In Cable Gallery From Bhakra Right Bank Power House To Switchyard.	0.00	150.00	150.00
12	Improvement Of Ventilation System At Bhakra Pp-Ii.	0.10	45.58	45.48
13	Renovation Of Eb Colony Providing Glazed Tiles In Bathrooms Of Various Type Of Quarters In Eb Colony At Nangal In View Of Golden Jublee Celebration	43.00	0.72	-42.28
14	Renovation Of EB Colony Providing Glazed Tiles In Bathrooms Of Various Type Of Quarters In EB Colony At Nangal In View Of Golden Jublee Celebration	1.00	50.00	49.00
15	Renovation Of Office Complex Of BBMB PW At Nangal In View Of Golden Jublee Celebration	60.00	0.92	-59.08
16	Complete Renovation Of 60 Nos. D-Type Quarters By Converting In To 30 Nos. C-Type Quarters In E.B Colony At Nangal Township.	1.00	50.00	49.00
17	Replacement Of Existing Cement Concrete Floors Of Court Yards In A,B,C&D Types Of Qtrs In Eb Colony At Nangal Township	1.00	38.20	37.20
18	Procurement Of Spares From Russia For Right Bank Machine	-1550.00	-700.00	850.00
19	To provide on line vibration data acquisition monitoring & processing system complete with allied accessories on the all units at Ganguwal & Kotla Power houses.	0.00	50.00	50.00
20	R&R of 4 Nos. L.T. control Panels alongwith L.T. breakers & remote indication at Kotla PH	51.00	2.00	-49.00
21	R&R of existing 132/33,16 MVA TFR (T-3) with new one at Ganguwal.	2.00	138.00	136.00
22	Prov. 11/132 KV,34.0/32.5 MVA Three Phase 50HZ water cooled Generator T/F complete with all fitting accessories and fire protection system at Kotla PH	292.00	9.00	-283.00
23	R&R of existing C&R panel having protection relays of BHEL units with numerical protection relays at Ganguwal & Kotla PH's.	1.00	100.00	99.00
24	Carrying out under wate videography , cutting , welding & other allied works on the guide track of draft tube gates of Unit No. 3 at Kotla PH.	48.00	0.00	-48.00
25	Carrying out under water videography of all the draft tube gates ( 3 Nos with each unit) of the remaining 5 No Units at Ganguwal & Kotla Power Houses.	45.00	0.00	-45.00

26	Carrying of under water repairs / replacement of the damaged / deteriorated guide / track of all the draft tube gates (after the videography of each unit) of 5 Nos Units 3 Nos at Ganguwal & 2 nos at Kotla Power House.	0.00	250.00	250.00
27	Carrying out under water repairs / replacement of the damaged / deteriorated guide / track of the draft tube gates after videography in respect Unit No. 3 Kotla Power House.	100.00	0.00	-100.00
28	Carrying out repair / replacement of under water 6 Nos guide track meant for trashrack gates of unit no-1 at forebay of Ganguwal Power House .	70.00	10.00	-60.00
29	Providing & re-laying premix carpet on the various roads at PH Colonies at Ganguwal & Kotla PHs	38.21	0.00	-38.21
31	Repl. Of Static /Electromechanical relay with numerical relays having GPS time synchronisation and DR facility on 220 KV feeders at 220KV ,MISS,Ganguwal.	0.00	150.00	150.00
32	Repl. Of 18 Nos. 245 KV C.Ts installed on 220 KV Ckts at 220 KV, MISS, BBMB,Ganguwal.	0.00	60.00	60.00
33	Repl. Of 4 Nos. 245 KV, SF-6 breakers with new spring charged type at 220 KV, MISS,Ganguwal.	0.00	60.00	60.00
34	Providing of spares of Digital Governor of Unit No.1 at Ganguwal & Kotla Power Houses	1.00	100.00	99.00
35	Procurement of 11 /0.33 KV, 3Phase 420 KVA Dry Type spare transformer for Static Excitation system with Hitachi	0.00	80.00	80.00
36	Replacement of conventional type disc. Insulator with polymer insulator on left over suspension towers of 220KV B/Garh-Dadri & S/pur-Dadri lines.	2.00	102.00	100.00
37	Replacement of ACSR conductor 0.4 Sq inch of 220 KV Ballabgarh-BTPS D/C line under SDO TL Ballabgarh	2.00	350.00	348.00
38	Replacement of damaged 16 MVA 66/33 KV Transformer with 16 MVA 66/33 KV Transformer at 220 KV Sub	121.00	0.00	-121.00
39	Const. of A&B type Quarters in place of old quarters at 220 KV Sub-stn. Ballabgarh.	2.00	60.00	58.00
40	Re-conductoring of 220 KV Bhakra-Jamalur DC line with AAAC-465 mm sq. conductor 1) Hardware fitting 2) 160KN 90KN Normal & 90KN Anti fog insulators. 3) 535 kms. AAAC-465 mm-sq Conductor. 4) Additional Disc Insulator to cover 100% replacement. 5) Erection of 3 no. towers at Bhakra 6) Labour charges for carrying out the re-conductoring work.	25.50	175.00	149.50
41	Providing 4 Nos. Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Jamalpur.	0.00	84.00	84.00
42	Replacement of existing static bus bar / L.B.B protection scheme at 220 KV s/stn. BBMB, Jamalpur with at least numerical protection scheme as per recommendation of protection audit.	5.00	67.00	62.00
43	Replacement of 1 no. 20 MVA 66/33 KV Savoisenue make transformer at 220 KV S/Stn., Dhulkote.	0.00	125.00	125.00
44	Estimate for replacement of existing 220 KV Bus Bar protection scheme with new microprocessor controlled	0.00	89.90	89.90
45	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Jalandhar.	0.00	41.50	41.50
46	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Sangrur.	0.00	41.50	41.50
47	Replacement of 2 Nos. 45/60 MVA 220/66KV MITSUBISHI make transformers at 220 KV S/Stn., Dhulkote.	0.00	500.00	500.00
48	Replacement of old critical 0.3 Sq". goat conductor of R/Road Narela Ckt. Line I & 2 )	2.00	250.00	248.00
49	Replacement of conventional disc insulator with polymer insulators of 220 kV R/Road CKT I & II	5.00	71.94	66.94
<b>(B) BEAS</b>				
1	Providing fire barriers in cable tunnels, cable spreading area, fire doors at exist & entry of cable tunnels/cable tunnels at DPH	1.00	53.00	52.00

38

48

2	Providing 1 No Generator shaft with integral thrust face (Runner disc)	50.00	100.00	50.00
3	Estimate for supply supervision of installation and commissioning of on line vibration monitoring system for 6 no Dehar Machine at DPH BBMB PW Slapper	43.29	0.00	-43.29
4	Providing 4 MVA 132/11 KV transformer & associated equipment by having 132 KV bay at Dehar Switch Yard for a dependable & reliable Power supply to feed the Auxiliaries of DPH S/ yard & BFV chamber.	40.00	0.00	-40.00
5	Replacement of static excitation system of Dehar unit no.5& 6 at DPH	245.00	0.00	-245.00
6	Air conditioning of TG Pannel area at DPH	1.00	110.00	109.00
7	Capital Mtc. Of Dehar Unit No.6 during 2012-2013	186.08	0.00	-186.08
8	Capital Mtc. Of Dehar uite No. 2 during the year 2013-14.	615.00	15.00	-600.00
9	Capital mtc. Of dehar unite no. 3 during the year 2013-14	200.00	340.00	140.00
10	Capital mtc. Of Dehar unit no.5 during the year 2014-15	0.00	550.00	550.00
11	Capital mtc. Of Dehar unit no.4 during the year 2014-15	0.00	650.00	650.00
12	Capital Mtc. Of BFV no.3 during the year 2014-15	0.00	120.00	120.00
13	Requisitioning the services of Engineer & Technical Personnel from M/S BHEL and material required to rectify the fault in stator winding and core of Dehar Unit No.6 due fault occurred on dt.8.8.2013 at 20.48 Hrs.	275.00	0.00	-275.00
14	Providing & laying water treatment on the roof of Dehar Power House Building at Slapper.	0.00	40.00	40.00
15	Replacement of 5 nos. machine breakers at Dehar S/Yard BBMB (PW), Slapper	2.00	135.00	133.00
16	Replacement of 6 nos ABCBat DPH Slapper	2.00	225.00	223.00
17	Annual running of buses for O& M staff, school/college students & mini bus for AE/ AEE at Slapper. during 2013-	123.57	37.00	-86.57
18	Procurement of BHEL spares for rotary valves ,Turbines &generator spares.	80.00	0.00	-80.00
19	Procurement of One set of HVOF coated & 3 sets without HVOF coated top & bottrom labyrinth alongwith fasteners for DPH	107.00	0.00	-107.00
20	Procurement of BHEL spares for rotary valves ,Turbines &generator spares for all 6 no. machines at DPH.	424.67	0.00	-424.67
21	Procurement of Governors spare for newly commissioned Micro Processor basis digitl electro hydro Governors	170.00	0.00	-170.00
22	Procurement of spares for 4 sets of mycro processorbased Automatic digital voltage regulator type static Excitation equipments at DPH Slapper.			
23	Proc. of BHEL spares.	0.00	125.00	125.00
24	Procurement of One No Circuit Breaker Analyzer alongwith Dynamic Contact Resistance Meter at PPH Talwara.	41.00	0.00	-41.00
25	Replacement of existing Generator Protection of unit No.I,II & IV to VI with Numerical Generator protection having built in disturbance recorder and event logger at PPH	1.00	40.00	39.00
26	Proc. Of 2 Nos. 75 MVA 11/220 KV Generator Transformer for PPH Talwara.	1.00	800.00	799.00
27	Replacement of existing Electro Hydraulic Governor G-25& analogue type electronic cabinet with latest microprocessor based Digital type Electro Hydraulic Governor System of Unit No. 1 to 6 at PPH Talwara.	1.00	100.00	99.00
28	Modernization of 3 Nos OTIS make Elevators installed at penstock emergency gate shaft of PPH	0.00	40.00	40.00
29	Refund of Rs 5720013/- out of 1.64 crores deposited by HPSEB in 1993-94 for provision of 20 MVA Power system in industrial Area sansarpur terrace Distt. Kangra HP.	57.00	0.00	-57.00
30	Replacement of 14Nos 245KV Isolator and 7Nos line isolator with earth switch pneumatically operated with new motor operated type at 400 KV s/Stn. BBMB Panipat.(New Work)	0.00	48.95	48.95
31	Procurement of 71.66 MVAR Reactor at 400 kV Sub-Station, Panipat for replacemnt of damaged reactor.	2.00	45.00	43.00

71

49

32	Replacement of normal disc insulator with antifog disc insulator of 400 KV /120/160 KN, of Dehar- Bhiwani line.	100.00	55.00	-45.00
33	Replacement of damaged 166.67 MVA 400/220/33 KV Single Phase Transformer T-2 (to be kept as spare) at 400 KV Sub Station Bhiwani	615.00	0.00	-615.00
34	Replacemenet of 400 KV SF-6 Brekaer (X-3) BHEL make controlling 400 KV Bus Reactor at 400 KV sub Station	2.00	45.00	43.00
35	Replacment of Emulsifier System with NIFPES for 500 MVA 400/220 KV ICT Bank and 2 No. 50 MVAR Reactors at 400 KV Sub Station Bhiwani	70.00	7.00	-63.00
36	Overhauling of 8 Nos. 245KV CGL make SF-6 gas ckt. Breaker under SSE/220KV BBMB, Bhiwani.	20.00	60.60	40.60
37	Estimate for replacement of RCC slab of category B (5 Nos.) & category-C (6 Nos.) type quarters at 220KV at	0.00	40.00	40.00
38	Replacement of 28 Nos 245 KV pneumatic controlled isolators with motorised controlled at 220 KV sub station	69.00	0.00	-69.00
39	Replacement of 132/11KV 8/4/4 MVA T/F with new 132/11 4MVA Transformer at 220KV Sub Station, Dadri	1.00	85.00	84.00
40	Overhauling of 2 Nos. 245KV & 3 Nos. 145KV ABB make SF-6 ckt. Breaker at 400KV Substation, BBMB, Bhiwani & 7 Nos. ABB make 245KV SF-6 ckt. Breakers at 220KV Ch.Dadri.	0.00	50.00	50.00
	Other Misc. works (including Mtc. & Suspense)	5732.52	6445.79	713.27
	<b>G. Total (Bhakra &amp; Beas)</b>	<b>18000.04</b>	<b>27115.84</b>	<b>9115.80</b>

*[Handwritten signature]*

# BHAKRA BEAS MANAGEMENT BOARD

**Statement Showing the expenditure incurred by the BBMB during the last five years under the Major**

**Head 2700 Major & Minor Irrigation Bhakra & Beas as well as under the Head 2801/2805 Power Hydel.**

Sr. No	Particulars	2008-09	2009-10	2010-11	2011-12	2012-13
<b>GROSS EXPENDITURE</b>		<b>₹In Lacs</b>				
I	<b><u>Bhakra Dam (Irrigation Wing)</u></b>					
	Works	951.63	1085.28	1259.93	1228.61	579.98
	Establishment	10487.28	11351.30	14538.87	17681.12	18942.82
	<b>Total</b>	<b>11438.91</b>	<b>12436.58</b>	<b>15798.80</b>	<b>18909.73</b>	<b>19522.80</b>
	Deduct Share debitable to Power Wing	5680.91	6173.15	7843.33	9386.31	9676.70
	<b>Net Irrigation Expenditure</b>	<b>5758.00</b>	<b>6263.43</b>	<b>7955.47</b>	<b>9523.42</b>	<b>9846.10</b>
II	<b><u>Beas Project (Unit No. 1, BSL)</u></b>					
	Works	1724.39	1495.71	1690.51	1660.62	1452.60
	Establishment	6458.99	6976.56	8576.63	11093.80	11894.95
	<b>Total</b>	<b>8183.38</b>	<b>8472.27</b>	<b>10267.14</b>	<b>12754.42</b>	<b>13347.55</b>
	Deduct Share debitable to Power Wing	7692.38	7963.94	9651.11	11989.15	12546.69
	<b>Net Irrigation Expenditure</b>	<b>491.00</b>	<b>508.33</b>	<b>616.03</b>	<b>765.27</b>	<b>800.86</b>
	Add Share Transferred from Power Wing	425.08	200.09	220.87	296.95	367.21
	<b>Net Irrigation Expenditure BSL Unit No.1</b>	<b>916.08</b>	<b>708.42</b>	<b>836.90</b>	<b>1062.22</b>	<b>1168.07</b>
III	<b><u>Unit No. 2 Pong Power Plant</u></b>					
	Works	588.53	712.23	990.27	941.11	604.11
	Establishment	4589.57	5032.01	6178.34	8087.58	8337.51
	<b>Total</b>	<b>5178.10</b>	<b>5744.24</b>	<b>7168.61</b>	<b>9028.69</b>	<b>8941.62</b>
	Deduct Share debitable to Power Wing	1216.85	1349.90	1684.62	2121.74	2101.28
	<b>Balance Expenditure</b>	<b>3961.25</b>	<b>4394.34</b>	<b>5483.99</b>	<b>6906.95</b>	<b>6840.34</b>
	Add Share Transferred from Power Wing	1033.49	1043.25	1378.46	1563.54	2155.49
	<b>Net Irrigation Expenditure Pong Unit No.2</b>	<b>4994.74</b>	<b>5437.59</b>	<b>6862.45</b>	<b>8470.49</b>	<b>8995.83</b>
<b><u>Total Beas Project Irrigation Wing</u></b>						
IV	<b><u>Unit No.1 &amp; 2</u></b>					
	Works	2312.92	2207.94	2680.78	2601.73	2056.71
	Establishment	11048.56	12008.57	14754.97	19181.38	20232.46
	<b>Total</b>	<b>13361.48</b>	<b>14216.51</b>	<b>17435.75</b>	<b>21783.11</b>	<b>22289.17</b>
	Deduct Share debitable to Power Wing	8909.23	9313.84	11335.73	14110.89	14647.97
	<b>Balance Expenditure</b>	<b>4452.25</b>	<b>4902.67</b>	<b>6100.02</b>	<b>7672.22</b>	<b>7641.20</b>
	Add Share Transferred from Power Wing	1458.56	1243.34	1599.33	1860.49	2522.70
	<b>Net expenditure chargeable to Irr. Wing</b>	<b>5910.81</b>	<b>6146.01</b>	<b>7699.35</b>	<b>9532.71</b>	<b>10163.90</b>
V	<b><u>Total Irrigation Expr. Bhakra &amp; Beas</u></b>					
	Works	3264.55	3293.22	3940.71	3830.34	2636.69
	Establishment	21535.84	23359.87	29293.84	36862.50	39175.28
	<b>Total</b>	<b>24800.39</b>	<b>26653.09</b>	<b>33234.55</b>	<b>40692.84</b>	<b>41811.97</b>
	Deduct Share debitable to Power Wing	14590.15	15486.99	19179.06	23497.20	24324.67
	<b>Balance Expenditure</b>	<b>10210.24</b>	<b>11166.10</b>	<b>14055.49</b>	<b>17195.64</b>	<b>17487.30</b>
	Add Share Transferred from Power Wing	1458.56	1243.34	1599.33	1860.49	2522.70
	<b>Net expenditure to Irr. Wing</b>	<b>11668.80</b>	<b>12409.44</b>	<b>15654.82</b>	<b>19056.13</b>	<b>20010.00</b>
VI	<b><u>280101/280105 Power Hydel Generation/ Transmission Bhakra Complex Power</u></b>					
	House					
	Works	2268.77	1384.71	5514.54	1100.06	1536.58
	Establishment	8819.13	9529.03	11939.45	14973.79	15594.77
	Uprating	390.92	4316.82	9505.07	5044.91	573.04
	<b>Total</b>	<b>11478.82</b>	<b>15230.56</b>	<b>26959.06</b>	<b>21118.76</b>	<b>17704.39</b>
	Add Share Transferred from Irrigation Wing	5680.91	6173.15	7843.33	9386.31	9676.70
	<b>Total</b>	<b>17159.73</b>	<b>21403.71</b>	<b>34802.39</b>	<b>30505.07</b>	<b>27381.09</b>

31

51

VII 280101 Power Hydel Generation Beas

Project Dehar Power Plant Power Wing.

Works	5236.00	1282.96	1228.04	1782.28	2741.80
Establishment	1848.55	2051.88	2453.16	3167.10	3378.40
Total	7084.55	3334.84	3681.20	4949.38	6120.20
Deduct Share debitable to Irrigation Wing	425.07	200.09	220.87	296.95	367.21
Balance Expenditure	6659.48	3134.75	3460.33	4652.43	5752.99
Add Share Transferred from Irrigation Wing	7692.38	7963.94	9651.11	11989.15	12546.69
Net expenditure chargeable to Power Wing	14351.86	11098.69	13111.44	16641.58	18299.68

280101 Power Hydel Generation Beas

Project Unit No.2 Pong Power Plant

VIII (Power Wing).

Works	188.58	167.50	274.45	177.84	774.26
Establishment	1162.39	1196.22	1527.46	1866.00	2043.37
Total	1350.97	1363.72	1801.91	2043.84	2817.63
Deduct Share debitable to Irrigation Wing	1033.49	1043.25	1378.46	1563.54	2155.49
Balance Expenditure	317.48	320.47	423.45	480.30	662.14
Add Share Transferred from Irrigation Wing	1216.85	1349.90	1684.62	2121.74	2101.28
Net expenditure chargeable to Power Wing	1534.33	1670.37	2108.07	2602.04	2763.42

280105 Power Hydel Transmission

IX Beas Transmission Lines Project.

Works	805.51	530.13	1361.15	983.16	633.59
Establishment	3071.93	3179.17	3921.51	5009.88	5332.10
Total BTL expr.chargeable to Power Wing	3877.44	3709.30	5282.66	5993.04	5965.69

X Total Beas Project Power Wing

Works	6230.09	1980.59	2863.64	2943.28	4149.65
Establishment	6082.87	6427.27	7902.13	10042.98	10753.87
Total	12312.96	8407.86	10765.77	12986.26	14903.52
Deduct Share debitable to Irrigation Wing	1458.56	1243.34	1599.33	1860.49	2522.70
Balance Expenditure	10854.40	7164.52	9166.44	11125.77	12380.82
Add Share Transferred from Irrigation Wing	8909.24	9313.84	11335.73	14110.89	14647.97
Net expenditure to Power Wing	19763.64	16478.36	20502.17	25236.66	27028.79

Total Power Wing Expr. Bhakra & Beas

XI

Works	8498.86	3365.30	8378.18	4043.34	5686.23
Establishment	14902.00	15956.30	19841.58	25016.77	26348.64
Total	23400.86	19321.60	28219.76	29060.11	32034.87
Deduct Share debitable to Irrigation Wing	1458.56	1243.34	1599.33	1860.49	2522.70
Balance Expenditure	21942.30	18078.26	26620.43	27199.62	29512.17
Add Share Transferred from Irrigation Wing	14590.15	15486.99	19179.06	23497.20	24324.67
R.M.U	390.92	4316.82	9505.07	5044.91	573.04
Net expenditure to Power Wing	36923.37	37882.07	55304.56	55741.73	54409.88

Total BBMB Expenditure Irr. & Power

XII

Works	11763.41	6658.52	12318.89	7873.68	8322.92
Establishment	36437.84	39316.17	49135.42	61879.27	65523.92
R.M.U	390.92	4316.82	9505.07	5044.91	573.04
Total	48592.17	50291.51	70959.38	74797.86	74419.88

SP



# BHAKRA BEAS MANAGEMENT BOARD

## Summary

Relating to Revised Budget Estimates for the year 2013-14 & Budget Estimates for the year 2014-15

Head of Account	Actual expenditure for 2012-13	Org. Budget Grant 2013-14	Actual expr. From 04/2013 to 11/2013	Revised Budget Estimate 2013-14	Budget Estimates for 2014-15
-----------------	--------------------------------	---------------------------	--------------------------------------	---------------------------------	------------------------------

Figures in lacs of ₹

### Major Head "2700-Major & Medium Irrigation

#### Bhakra Dam

Works Expenditure	579.98	1809.46	203.73	2672.85	2920.09
Establishment	18942.82	22545.34	14133.08	22988.21	23852.61
Total Expenditure	19522.80	24354.80	14336.81	25661.06	26772.70
Deduct share debitible to Power Wing	9676.70	12098.66	7124.18	12740.18	13314.33
<u>Net Bhakra Dam Expenditure Irrigation</u>	<u>9846.10</u>	<u>12256.14</u>	<u>7212.63</u>	<u>12920.89</u>	<u>13458.38</u>

Shares between the partner State Governments.

Punjab	5074.91	6302.12	3699.04	6638.92	6912.14
Haryana	3269.20	4081.75	2406.84	4304.10	4480.76
Rajasthan	1501.99	1872.27	1106.75	1977.86	2065.48

### Beas Project Unit No.1 BSL

Works Expenditure	1452.60	2063.00	767.25	1858.18	2247.54
Establishment	11894.95	12199.30	8569.70	13088.29	13204.42
Total Unit No.1 BSL	13347.55	14262.30	9336.95	14946.47	15451.96
Deduct share debitible to Power Wing	12546.69	13406.56	8776.74	14049.68	14524.84
Balance expenditure	800.86	855.74	560.21	896.79	927.12
Add Share transferred from Power Wing	367.21	372.23	156.22	399.59	383.25
<u>Net BSL expenditure Irrigation Wing</u>	<u>1168.07</u>	<u>1227.97</u>	<u>716.43</u>	<u>1296.38</u>	<u>1310.37</u>

Shares between the partner State Governments.

Punjab	51 %	595.72	626.26	365.38	661.15	668.29
Haryana	34 %	397.14	417.51	243.59	440.77	445.53
Rajasthan	15 %	175.21	184.20	107.46	194.46	196.56

### Beas Project Unit No.2 Pong Dam, Talwara

Total Works Expenditure	604.11	1000.00	258.43	1073.70	805.71
Establishment	8337.51	9490.01	6338.52	9817.86	10654.43
Total Unit No.2 Pong Dam, Talwara	8941.62	10490.01	6596.95	10891.56	11460.14
Deduct share debitible to Power Wing	2101.28	2465.15	1550.28	2559.52	2693.13
Balance expenditure	6840.34	8024.86	5046.67	8332.04	8767.01
Add Share transferred from PowerWing	2155.49	3298.14	1149.20	2959.23	3590.39
<u>Net expenditure Pong Dam Irr. Wing</u>	<u>8995.83</u>	<u>11323.00</u>	<u>6195.87</u>	<u>11291.27</u>	<u>12357.40</u>

Shares between the partner State Governments.

Punjab	24.9 %	2239.96	2819.42	1542.77	2811.53	3076.99
Haryana	16.6 %	1493.31	1879.62	1028.52	1874.35	2051.33
Rajasthan	58.5 %	5262.56	6623.96	3624.58	6605.39	7229.08

### Beas Project Unit No.1 & 2 I.B.

Works Expenditure	2056.71	3063.00	1025.68	2931.88	3053.25
Establishment	20232.46	21689.31	14908.22	22906.15	23858.85
Total Beas Project Expr.	22289.17	24752.31	15933.90	25838.03	26912.10
Deduct share debitible to Power Wing	14647.97	15871.71	10327.02	16609.20	17217.97
Balance expenditure	7641.20	8880.60	5606.88	9228.83	9694.13
Add Share transferred from Power Wing	2522.70	3670.37	1305.42	3358.82	3973.64
<u>Net expenditure Beas Project Irr. Wing</u>	<u>10163.90</u>	<u>12550.97</u>	<u>6912.30</u>	<u>12587.65</u>	<u>13667.77</u>

Shares between the partner State Governments.

Punjab	2835.68	3445.68	1908.15	3472.68	3745.28
Haryana	1890.45	2297.13	1272.11	2315.12	2496.86
Rajasthan	5437.77	6808.16	3732.04	6799.85	7425.64

24

-53-

Total Irr. Bhakra & Beas					
Works Expenditure	2636.69	4872.46	1229.41	5604.73	5973.34
Establishment	39175.28	44234.65	29041.30	45894.36	47711.46
Total Expenditure	41811.97	49107.11	30270.71	51499.09	53684.80
Deduct share debitable to Power Wing	24324.67	27970.37	17451.20	29349.38	30532.30
Balance expenditure	17487.30	21136.74	12819.51	22149.72	23152.51
Add Share transferred from Power Wing	2522.70	3670.37	1305.42	3358.82	3973.64
<u>Total expr.chargeable to Irr. Wing.</u>	<u>- 20010.00</u>	<u>24807.11</u>	<u>14124.93</u>	<u>25508.54</u>	<u>27126.15</u>
Shares between the partner State Governments.					
Punjab	7910.59	9747.80	5607.19	10111.60	10657.42
Haryana	5159.65	6378.88	3678.95	6619.22	6977.62
Rajasthan	6939.76	8680.43	4838.79	8777.71	9491.12

#### Revenue Expenditure Bhakra Complex Power Houses

##### Major Head "280101/280105 Revenue Expr.

Works Expenditure	1536.58	4728.70	786.48	3924.25	7331.41
Establishment	15594.77	17141.27	10895.34	17450.70	17704.59
Uprating	573.04	15000.00	369.19	7500.00	12500.00
Total Gross Expenditure	17704.39	36869.97	12051.01	28874.95	37536.00
Add share transferred from Irr. Wing.	9676.70	12098.66	7124.18	12740.18	13314.33
<u>Total Bhakra Complex Power Houses</u>	<u>27381.09</u>	<u>48968.63</u>	<u>19175.19</u>	<u>41615.13</u>	<u>50850.33</u>

##### Shares between the partner State Elec. Boards.

PSPCL	51.80 %	12027.39	21505.08	8420.99	18275.72	22331.45
HVPNL	37.51 %	8709.60	15572.50	6097.90	13234.02	16170.90
RVPNL	15.22 %	4170.26	7453.03	2918.46	6333.82	7739.42
HPSEBL	7.19 %	1663.88	2984.97	1168.86	2536.73	3099.67
UT, Chandigarh	3.50 %	809.96	1453.05	568.99	1234.85	1508.88

#### Beas Project Power Wing Dehar Power Plant Unit No.1

Works Expenditure	2741.80	2731.66	434.71	3182.57	3017.36
Establishment	3378.40	3472.13	2168.94	3477.34	3370.13
Total expenditure	6120.20	6203.79	2603.65	6659.91	6387.49
Deduct share debitable to Irr. Wing	367.21	372.23	156.22	399.59	383.25
Balance expenditure	5752.99	5831.56	2447.43	6260.32	6004.24
Add share transferred from Irr. Wing	12546.69	13406.56	8776.74	14049.68	14524.84
<u>Total Expr. Dehar Power Plants.</u>	<u>18299.68</u>	<u>19238.12</u>	<u>11224.17</u>	<u>20310.00</u>	<u>20529.08</u>

##### Shares between the partner State Elec. Boards.

PSPCL	51.80 %	7583.39	7972.28	4651.30	8416.46	8507.25
HVPNL	37.51 %	5491.37	5772.98	3368.15	6094.62	6160.36
RVPNL	20.00 %	3659.94	3847.62	2244.83	4062.00	4105.82
HPSEBL	7.19 %	1052.60	1106.58	645.61	1168.23	1180.83
UT, Chandigarh	3.50 %	512.39	538.67	314.28	568.68	574.81

#### Beas Project Power Wing Unit No.2 Pong Power Plant, Talwara

Works Expenditure	774.26	1818.98	96.51	1197.81	1981.69
Establishment	2043.37	2492.32	1405.71	2670.46	2711.63
Total expenditure Unit No.2	2817.63	4311.30	1502.22	3868.27	4693.32
Deduct share debitable to Irr. Wing	2155.49	3298.14	1149.20	2959.23	3590.39
Balance expenditure	662.14	1013.16	353.02	909.04	1102.93
Add share transferred from Irr. Wing	2101.28	2465.15	1550.28	2559.52	2693.13
<u>Total Expr. Pong Power Plants.</u>	<u>2763.42</u>	<u>3478.31</u>	<u>1903.30</u>	<u>3468.56</u>	<u>3796.06</u>

##### Shares between the partner State Elec. Boards.

PSPCL	51.80 %	594.05	747.73	409.15	745.64	816.04
HVPNL	37.51 %	430.17	541.46	296.28	539.94	590.92
RVPNL	58.50 %	1616.60	2034.81	1113.43	2029.11	2220.70
HPSEBL	7.19 %	82.46	103.79	56.79	103.50	113.27
UT, Chandigarh	3.50 %	40.14	50.52	27.65	50.38	55.14

**Beas Transmission Lines**

Works Expenditure	633.59	2240.88	489.69	2195.41	2285.38
Establishment	5332.10	6008.12	3649.72	5895.39	6280.99
<b>Total BTL expr. Chargeable to Power Wing</b>	<b>5965.69</b>	<b>8249.00</b>	<b>4139.41</b>	<b>8090.80</b>	<b>8566.37</b>

Shares between the partner State Elec. Boards.

PSPCL 28.72 %	1305.35	1805.26	905.89	1770.64	1874.72
HVPNL 60.59 %	2754.56	3808.53	1911.15	3735.49	3955.05
RVPNL 23.80 %	1419.83	1963.26	985.18	1925.61	2038.80
HPSEBL 7.19 %	326.85	451.94	226.79	443.28	469.33
UT, Chandigarh 3.50 %	159.11	220.00	110.40	215.78	228.46

**Total Beas Project Power Wing**

Works Expenditure	4149.65	6791.52	1020.91	6575.79	<b>7284.43</b>
Establishment	10753.87	11972.57	7224.37	12043.19	<b>12362.75</b>
<b>Total expenditure</b>	<b>14903.52</b>	<b>18764.09</b>	<b>8245.28</b>	<b>18618.98</b>	<b>19647.18</b>
Deduct share debit to Irr. Wing	2522.70	3670.37	1305.42	3358.82	3973.64
Balance expenditure	12380.82	15093.72	6939.86	15260.16	15673.54
Add share transferred from Irr. Wing	14647.97	15871.71	10327.02	16609.20	17217.97
<b>Total Beas Project Expr. chargeable to PW</b>	<b>27028.79</b>	<b>30965.43</b>	<b>17266.88</b>	<b>31869.36</b>	<b>32891.51</b>

Shares between the partner State Elec. Boards.

PSPCL	9482.79	10525.27	5966.34	10932.74	11198.01
HVPNL	8676.10	10122.97	5575.58	10370.05	10706.33
RVPNL	6696.37	7845.69	4343.44	8016.72	8365.32
HPSEBL	1461.91	1662.31	929.19	1715.01	1763.43
UT, Chandigarh	711.64	809.19	452.33	834.84	858.41

**Total Power Wing Expr. Bhakra & Beas**

Works Expenditure	5686.23	11520.22	1807.39	10500.04	14615.84
Establishment	26348.64	29113.84	18119.71	29493.89	30067.34
<b>Total expenditure</b>	<b>32034.87</b>	<b>40634.06</b>	<b>19927.10</b>	<b>39993.93</b>	<b>44683.18</b>
Deduct share debit to Irr. Wing	2522.70	3670.37	1305.42	3358.82	3973.64
Balance expenditure	29512.17	36963.69	18621.68	36635.11	40709.54
Add share transferred from Irr. Wing	24324.67	27970.37	17451.20	29349.38	30532.30
Upgrading	573.04	15000.00	369.19	7500.00	12500.00
<b>Total Expr. Bhakra &amp; Beas (Power Wing)</b>	<b>54409.88</b>	<b>79934.06</b>	<b>36442.07</b>	<b>73484.49</b>	<b>83741.84</b>

Shares between the partner State Elec. Boards.

PSPCL	21510.18	32030.35	14387.33	29208.46	33529.46
HVPNL	17385.70	25695.47	11673.48	23604.07	26877.23
RVPNL	10866.63	15298.72	7261.90	14350.54	16104.74
HPSEBL	3125.79	4647.28	2098.05	4251.74	4863.10
UT, CHD	1521.60	2262.24	1021.32	2069.69	2367.29

**Total Expr. Bhakra & Beas Power & Irrigation**

Works Expenditure	8895.96	31392.68	3405.99	23604.77	33089.18
Establishment	65523.92	73348.49	47161.01	75388.25	77778.80
<b>Total Expenditure BBMB Bhakra &amp; Beas Power &amp; IB</b>	<b>74419.88</b>	<b>104741.17</b>	<b>50567.00</b>	<b>98993.02</b>	<b>110867.98</b>

Shares between the Partner State Elec. Boards. &amp; State Govts.

Punjab/PSPCL	29420.77	41778.15	19994.52	39320.06	44186.88
Haryana/HVPNL	22545.35	32074.35	15352.43	30223.29	33854.85
Rajasthan/RVPNL	17806.39	23979.15	12100.69	23128.25	25595.86
HPSEBL	3125.79	4647.28	2098.05	4251.74	4863.10
UT, Chandigarh	1521.60	2262.24	1021.32	2069.69	2367.29

Total

	74419.90	104741.17	50567.01	98993.03	110867.98
--	----------	-----------	----------	----------	-----------

**Capital expenditure to be financed out of Capital Receipts Head 4700-Capital Outlay Bhakra Irrigation**

Particulars	Actual Exp. for the year 2012-13	Org. Budget Est. for the year 2013-14	Revised budget for the year 2013-14	Budget Estimate for the year 2014-15
-------------	----------------------------------------	---------------------------------------------	----------------------------------------------	-----------------------------------------------

(₹ in lacs)

<b><u>Bhakra</u></b>	-27.77	-19.90	-19.70	-19.70
	-27.77	-19.90	-19.70	-19.70
Share between Partner State Govts				
Punjab	-14.12	-10.12	-10.02	-10.02
Haryana	-9.42	-6.75	-6.68	-6.68
Rajasthan	-4.23	-3.03	-3.00	-3.00

**Major Head 4700-Capital Outlay Beas Project to be met without Plan Assistance to be provided by the Govt. of India to the Partner State Govts. Of BBMB**

<b><u>Beas project</u></b>	65.94	98.68	98.68	98.68
	65.94	98.68	98.68	98.68
Share between Partner State Govts				
Punjab	16.42	24.57	24.57	24.57
Haryana	10.95	16.38	16.38	16.38
Rajasthan	38.57	57.73	57.73	57.73

**Major Head 48001-Capital Outlay on Power Plant Beas Project to be met without Plan Assistance to be provided by the Govt. of India to the partner State Govts./Elec. Boards/Power Utilities of BBMB**

<b><u>Beas</u></b>	20.25	30.32	30.32	30.32
Shares between the Partner State Govts/Power Utilities				
PSPCL	5.04	7.55	7.55	7.55
HVPNL	3.36	5.03	5.03	5.03
RVPNL	11.85	17.74	17.74	17.74

56

## REVENUE RECEIPTS

Particulars	Actual Receipt 2012-13	Original Budget Est. 2013-14	Revised Budget Est 2013-14	Budget Estimate 2014-15
-------------	---------------------------	---------------------------------	-------------------------------	----------------------------

₹(In Lacs)

### Major Head 700 Major & Medium Irr. Receipts

#### Bhakra

Gross Receipts	336.83	537.08	555.17	566.17
Deduct Share creditable to Power Wing	168.42	268.54	277.59	283.09
Balance	168.41	268.54	277.58	283.08
Add Sale of water to DWSU	1126.70	600.00	500.00	600.00
<u>Net Irrigation Wing Receipt</u>	<u>1295.11</u>	<u>868.54</u>	<u>777.58</u>	<u>883.08</u>

Shares between the partner State Govts.

Punjab	658.79	441.79	395.53	449.20
Haryana	439.21	294.51	263.69	299.47
Rajasthan	197.11	132.24	118.36	134.41

### Major Head 700 Revenue Receipts

#### Beas Project Irrigation Wing

Gross Receipts	211.02	822.20	871.58	834.03
Deduct Share creditable to Power Wing	184.42	467.88	524.56	479.00
Balance Receipt	26.60	354.32	347.02	355.03
Add share transferred from Power Wing.	11.41	2.78	35.13	3.86
<u>Total Beas Project Receipt creditable to I.B.</u>	<u>38.01</u>	<u>357.10</u>	<u>382.15</u>	<u>358.89</u>

Shares between the partner State Govts.

Punjab	12.55	95.14	110.83	96.05
Haryana	8.37	63.43	73.88	64.04
Rajasthan	17.09	198.53	197.44	198.80

### Total Revenue Receipts Irr. Bhakra & Beas

Gross Receipts	1674.55	1959.28	1926.75	2000.20
Deduct Share creditable to Power Wing	352.84	736.42	802.15	762.09
Balance Receipt	1321.71	1222.86	1124.60	1238.11
Add share transferred from Power Wing.	11.41	2.78	35.13	3.86
<u>Total Revenue Receipts creditable to Irrigation</u>	<u>1333.12</u>	<u>1225.64</u>	<u>1159.73</u>	<u>1241.97</u>

Shares between the partner State Govts.

Punjab	671.34	536.93	506.36	545.25
Haryana	447.58	357.94	337.57	363.51
Rajasthan	214.20	330.77	315.80	333.21

### Major Head 801 Power Hydel Generation Revenue Receipt

#### Power Wing Bhakra Nangal Project

Gross Receipts	31504.12	28197.00	27587.00	28133.00
Add Share transferred from Irrigation Wing	168.41	268.54	277.58	283.08
<u>Total Receipts</u>	<u>31672.53</u>	<u>28465.54</u>	<u>27864.58</u>	<u>28416.08</u>

Shares between the partner State Elec'y Boards

PSPCL	13909.33	12500.94	12237.02	12479.22
HVPNL	10072.18	9052.32	8861.21	9036.59
RVPNL	4820.56	4332.46	4240.99	4324.93
HPSEBL	1930.66	1735.17	1698.54	1732.15
UT, CHD	939.82	844.66	826.83	843.19

### Beas Project Power Wing Revenue Receipts

Gross Receipts	123.50	79.00	1599.00	213.00
Deduct share creditable to Irrigation	11.41	2.78	35.13	3.86
Balance Receipts	112.09	76.22	1563.87	209.14
Add Share transferred from Irrigation Wing	184.42	467.88	524.56	479.00
<u>Total Beas Project Receipts Power Wing</u>	<u>296.51</u>	<u>544.10</u>	<u>2088.43</u>	<u>688.14</u>

Shares between the partner State Elec'y Boards

PSPCL	104.96	194.83	653.75	234.31
HVPNL	95.96	151.69	745.09	190.90

RVPNL	71.54	156.11	522.17	212.04
HPSEBL	16.17	27.90	112.62	34.24
UT, Chandigarh	7.88	13.57	54.83	16.67
<u>Total Power Wing Receipts Bhakra and Beas</u>	31969.04	29009.64	29953.01	29104.22
Shares between the partner State Elec.Boards.				
PSPCL	14014.29	12695.77	12890.77	12713.53
HVPNL	10168.14	9204.01	9606.30	9227.49
RVPNL	4892.10	4488.57	4763.16	4536.97
HPSEB	1946.83	1763.07	1811.16	1766.39
UT, Chandigarh	947.70	858.23	881.66	859.86

**Net Revenue Expenditure Irrigation Wing Bhakra & Beas to be financed by the partner State Govts.**

<u>Total expr.chargeable to Irr. Wing.</u>	20010.00	24807.11	25508.54	27126.15
Shares between the partner State Govts.				
Punjab	7910.59	9747.80	10111.60	10657.42
Haryana	5159.65	6378.88	6619.22	6977.62
Rajasthan	6939.76	8680.43	8777.71	9491.12

PR

58

**Net Revenue Expenditure Power Wing after deducting Revenue Receipts to be financed by the  
Partner State Electricity Boards/Power Utilities in the Revised Budget Estimate for the year 2013-  
2014 and Budget Estimate for the year 2014-15**

₹ In Lacs

**Revised Budget Estimates for the year 2013-14**

	PSPCL	HVPNL	RVPNL	HPSEBL	UT CHD	TOTAL
Revenue Expenditure	29208.46	23604.07	14350.54	4251.74	2069.69	73484.50
Revenue Receipts	12890.77	9606.30	4763.16	1811.16	881.66	29953.05

**Net Revenue Expenditure to be financed by**

**State Elec. Board during 2013-14**

	16317.69	13997.77	9587.38	2440.58	1188.03	43531.45
--	----------	----------	---------	---------	---------	----------

₹ In Lacs

**Budget Estimates for the year 2014-15**

	PSPCL	HVPNL	RVPNL	HPSEBL	UT CHD	TOTAL
Revenue Expenditure	33529.46	26877.23	16104.74	4863.10	2367.29	83741.82
Revenue Receipts	12713.53	9227.49	4536.97	1766.39	859.86	29104.24

**Net Revenue Expenditure to be financed by**

**State Elec. Board during 2014-15**

	20815.93	17649.74	11567.77	3096.71	1507.43	54637.58
--	----------	----------	----------	---------	---------	----------



- 59 -

**Detail of Budget Estimates under Major Head Social and Community Services Economic (C) Services as  
(d) Irrigation and Flood Control "2700 Major, Commercial & BBMB Portion Bhakra Nangal Project**

Head of Account.	Actual expenditure 2012-13	ORG. Budget Estimate 2013-14	Revised Budget 2013-14	Budget Estimates 2014-15
------------------	----------------------------------	------------------------------------	------------------------------	--------------------------------

**Bhakra Nangal Project**

(Figures in lacs of ₹)

**Unit No - 1 Bhakra Dam**

**Works Portion**

Major Works	122.13	490.47	885.94	894.74
Minor Works	0.77			0.90
Maintenance works	581.42	721.99	789.60	978.53
Machinery & Equipment	29.01	189.23	572.21	293.37
Losses written-off	0.08	0.50	0.50	0.50
Suspense	-402.57	85.00	85.00	85.00
<b>Total works Unit No.1 Bhakra Dam</b>	<b>330.84</b>	<b>1487.19</b>	<b>2333.25</b>	<b>2253.04</b>
Deduct Share Debitable to Power Wing	165.42	743.60	1166.63	1126.52
<b>Balance chargeable to Irrigation Wing</b>	<b>165.42</b>	<b>743.59</b>	<b>1166.62</b>	<b>1126.52</b>

**Share between Partner State Govts**

Punjab	60 %	84.14	378.25	593.44	573.04
Haryana	40 %	56.10	252.17	395.62	382.02
Rajasthan	15.22 %	25.18	113.17	177.56	171.46

**Direction & Administration**

	17484.89	20884.44	21106.13	21876.22
Deduct Share Debitable to Power Wing	8742.45	10442.22	10553.07	10938.11
<b>Balance D&amp;A chargeable to Irrigation Wing</b>	<b>8742.44</b>	<b>10442.22</b>	<b>10553.06</b>	<b>10938.11</b>

**Share between Partner State Govts**

Punjab	60 %	4447.10	5311.75	5368.13	5564.00
Haryana	40 %	2964.74	3541.16	3578.75	3709.33
Rajasthan	15.22 %	1330.60	1589.31	1606.18	1664.78

**Grand Total Unit No.1 Bhakra Dam Works & Establishment**

	17815.73	22371.63	23439.38	24129.26
--	----------	----------	----------	----------

Deduct share debitale to Power Wing	8907.87	11185.82	11719.70	12064.63
<b>Balance Unit No.1 chargeable to Irr.Wing</b>	<b>8907.86</b>	<b>11185.81</b>	<b>11719.68</b>	<b>12064.63</b>

**Share between Partner State Govts**

Punjab	60 %	4531.25	5690.00	5961.56	6137.03
Haryana	40 %	3020.83	3793.33	3974.38	4091.36
Rajasthan	15.22 %	1355.78	1702.48	1783.74	1836.24

**Unit No.2 Nangal Dam**

**Works Portion**

Major Works		11.00	6.00	35.00
Minor Works				
Maintenance works	18.15	41.00	56.09	48.30
Machinery & Equipment				
Losses written-off				
Suspense	3.05	0.02	0.02	0.02

**Total works Unit No.2 Nangal Dam**

	21.20	52.02	62.11	83.32
Deduct Share Debitable to Power Wing	10.60	26.01	31.06	41.66
<b>Balance chargeable to Irrigation Wing</b>	<b>10.60</b>	<b>26.01</b>	<b>31.06</b>	<b>41.66</b>

**Share between Partner State Govts**

Punjab	60 %	5.15	12.63	15.08	20.23
Haryana	40 %	3.43	8.42	10.05	13.49
Rajasthan	19.06 %	2.02	4.96	5.92	7.94

**Unit No.3 Nangal Hydel Channel**

**Works Portion**

Major Works	16.36	6.10	2.00	7.00
Minor Works				
Maintenance works	41.58	62.65	79.75	333.13
Machinery & Equipment	0.68		11.00	5.65
Losses written-off				
Suspense	-3.43			

**Total works Unit No.3**

	55.19	68.75	92.75	345.78
Deduct Share debitale to Power Wing	27.60	34.38	46.38	172.89
Balance chargeable to Irrigation Wing	27.59	34.37	46.37	172.89
Add Expenditure exclusive Punjab	171.12	179.50	182.74	191.00
<b>Total balance chargeable to Irrigation Wing</b>	<b>198.71</b>	<b>213.87</b>	<b>229.11</b>	<b>363.89</b>

**Shares between the partner State Govts.**

Punjab	60 %	184.52	196.19	205.26	274.96
Haryana	40 %	8.93	11.13	15.01	55.98
Rajasthan	19.06 %	5.26	6.55	8.84	32.95



Direction & AdministrationDirection & Administration

Deduct Share Debitable to Power Wing

Balance D&A Unit No.3 chargeable to IB

Punjab

60 %

354.00

403.30

457.01

479.91

Haryana

40 %

236.00

268.87

304.67

319.94

Rajasthan

19.06 %

138.93

158.28

179.36

188.35

Share between Partner State Govts

1457.86

1660.90

1882.08

1976.39

728.93

830.45

941.04

988.20

728.93

830.45

941.04

988.20

Grand Total Unit No.3 Works &Establishment

Deduct share debitale to Power Wing

Balance debitale to Irrigation Wing

Punjab

60 %

538.52

419.99

479.53

563.87

Haryana

40 %

244.93

280.00

319.68

375.91

Rajasthan

19.06 %

144.19

164.83

188.20

221.30

Share between Partner State Govts

1513.05

1729.65

1974.83

2322.17

756.53

864.83

987.42

1161.09

756.52

864.82

987.41

1161.09

Unit No.4Works Portion

Major Works

20.00

37.35

Minor Works

Maintenance works

1.63

2.00

2.00

9.60

Machinery &amp; Equipment

Losses written-off

Suspense

Total works Unit No.4

1.63

22.00

2.00

46.95

Deduct Share Debitale to Power Wing

1.63

22.00

2.00

46.95

Balance chargeable to Irrigation WingDirection & Administration

0.07

Deduct Share Debitale to Power Wing

0.07

Balance D&A Unit No.4 chargeable to IBAbstract Of Bhakra Nangal ProjectWorks Portion

Total works Unit No-1

330.84

1487.19

2333.25

2253.04

Total works Unit No-2

21.20

52.02

62.11

83.32

Total works Unit No-3

226.31

248.25

275.49

536.78

Total works Unit No-4

1.63

22.00

2.00

46.95

Grand Total Works Unit No. 1 to 4

579.98

1809.46

2672.85

2920.09

Deduct Share Debitale to Power Wing

205.25

825.99

1246.07

1388.02

Balance works portion chargeable to

374.73

983.47

1426.79

1532.07

Irrigation Wing

Shares between the partner State Govts.

Punjab

273.81

587.07

813.78

868.23

Haryana

68.46

271.72

420.68

451.49

Rajasthan

32.46

124.68

192.32

212.35

DIRECTION AND ADMINISTRATION

D &amp; A Unit No. 1

17484.89

20884.44

21106.13

21876.22

D &amp; A Unit No. 3 &amp; 4

1457.93

1660.90

1882.08

1976.39

Total D & A Unit No. 1 & 3

18942.82

22545.34

22988.21

23852.61

Deduct Share debitale to Power Wing

9471.45

11272.67

11494.11

11926.31

Balance D & A Chargeable to Irrigation Wing

9471.37

11272.67

11494.10

11926.31

Shares between the partner State Govts.

Punjab

4801.10

5715.05

5825.14

6043.91

Haryana

3200.74

3810.03

3883.42

4029.27

Rajasthan

1469.53

1747.59

1785.54

1853.13

Grand Total Works & Establishment

19522.80

24354.80

25661.06

26772.70

Deduct Share debitale to Power Wing

9676.70

12098.66

12740.18

13314.33

Balance Chargeable to Irrigation Wing

9846.10

12256.14

12920.89

13458.38

Shares between the partner State Govts.

Punjab

5074.91

6302.12

6638.92

6912.14

Haryana

3269.20

4081.75

4304.10

4480.76

Rajasthan

1501.99

1872.27

1977.86

2065.48

**ABSTRACT OF BUDGET EST. OF ESTABLISHMENT OF BHAKRA DAM (IRRIGATION)**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2012-13	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
₹ in lacs						
1	Salaries of Regular/WC Emp.	251	13081.29	15066.24	15481.48	15795.65
2	Salary of Drivers	259	32.19	35.22	26.24	28.08
3	Empl. Hired on Contract basis	252	109.65	72.73	195.73	201.20
40	Conveyance Allowance	253	185.32	183.91	181.59	190.38
5	Edu. Expn. Of DAV School	254	286.79	315.00	300.00	330.50
6	Wages of Daily Rated empy.	255	0.30	0.42	0.00	0.00
7	Exp. On Mtc. Of Jeeps & Cars	256	44.65	52.80	46.62	49.70
8	TA.	257	96.37	104.62	104.62	107.91
9	LTC.	258	14.78	24.14	45.23	30.23
10	Computer.	260	5.07	12.42	7.07	7.75
11	Rent.	261	0.00	0.09	0.00	0.00
12	Purchase of Vehicle.	262	17.79	15.00	33.00	15.00
13	Insurance	263	1.14	1.05	1.14	1.14
14	Despensaries	264	1.51	1.34	1.64	1.64
15	Medical charges.	266	172.63	181.05	189.90	208.73
16	Legal Services.	267	16.37	10.93	20.70	22.90
17	Printing & Stationery.	269	53.68	48.01	65.39	68.66
18	Postage & Telegram	270	2.17	3.56	3.56	3.78
19	Telephone & Internet.	271	32.74	32.18	38.75	40.68
20	Electricity & Water.	272	42.42	47.11	46.91	50.39
21	Books & Periodical.	273	1.44	2.50	1.55	1.60
22	Advertisement.	274	18.99	23.78	105.00	25.78
23	Hot & Cold Weather charges.	275	1.48	2.55	1.63	1.70
24	Liveries.	276	11.39	10.54	12.53	13.16
25	Bank Collection charges.	277	0.00	0.00	0.00	0.00
26	Furniture.	278	2.21	7.25	2.50	2.75
27	Typewriters & Photostat Mach.	279	3.26	6.35	3.60	3.85
28	Misc. Office Expenses.	280	127.47	107.87	214.96	169.90
29	Material & Supply of Hospital.	281	18.15	20.19	20.19	22.21
30	Medicine.	283	25.38	33.56	33.56	35.65
31	Sports Activities.	286	2.31	1.00	2.00	4.00
32	Training & Seminars.	288	5.96	20.46	59.98	15.80
33	Entertainment catering etc.	289	5.02	4.95	5.84	6.10
34	Stipend	300	7.01	8.01	8.01	8.50
35	Scholarship	301	0.34	1.50	1.50	1.55
36	Pension.	302	2887.28	3467.86	3467.81	3814.59
37	Commutation of Pension.	303	364.34	619.43	398.57	497.71
38	EBA.	304	0.00	0.00	0.00	0.00
39	Gratuity & DCRG.	305	535.58	716.00	668.14	734.50
40	Leave Encashment.	307	603.96	742.52	633.05	752.99
41	Security Staff.	308	124.05	528.40	528.40	556.50
42	Awards & Prizes.	312	24.01	1.30	24.82	23.45
43	HBA.	313	-23.68	0.00	0.00	0.00
44	Conveyance/Vehicles advance.	314	-0.40	0.00	0.00	0.00
45	Subscription to National & International Bodies	331	0.40	11.50	5.00	6.00
	Total		18942.81	22545.34	22988.21	23852.61

CA

62

**List of Major Works provided in the Revised Estimate for the year 2013-14 and Budget Estimate for the year 2014-15 under the Major Head 2701 Major Irrigation-I, Bhakra Dam, Nangal.**

(Rs. In lacs)						
Sr. No.	Name of Work.	Est. cost	Sanction No. & Date	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
<b>01 01 129 01 701 501)</b>						
1	Replacement of 1 No. old Multistage Horizontal pump with New Multistage Centrifugal Pump at EL-1433' (Spillover work)	7.50	No. 22160-64/B-3055 dt. 11.08.2010	0.00	7.50	0.00
2	Replacement of 1 No. Jaw Crusher for crushing plant at Bhakra (Spillover Work)	10.00	No. 15784-89/dt. 13.06.2012	0.00	10.00	0.00
3	Replacement of 2 No. Old Horizontal Multistage centrifugal pump installed at Village Neilla for Neilla Galthai water supply.	8.00	No. 30656-61 dt. 14.11.2011.	0.00	8.00	0.00
4	Inspection of under water trash rack of pen stock and river out lets and up stream face of Bhakra Dam using ROV.	11.18	Under sanction	0.00	0.00	11.18
5	Replacement of old electric stationery Air Compressor by New one at RL-1400 at Bhakra Dam.	56.20	No.30656-61 dt.14.11.11	54.20	56.20	0.00
6	Replacement of C.G.I.sheet of 5 No Panagarh sheds in C/store.	10.27	No. 1280-82 dt. 24.1.11	0.00	0.00	10.27
7	Renov. Of 28 Nos. JW type quarter in Olinda colony to accommodate security staff at Bhakra.	10.00	1976-78 dt.4.2.13	8.00	5.00	5.00
8	Construction of check posts and police barracks at various sites in Bhakra Dam area for Security staff	Under Process	No. 3889-91 dt. 8.3.13	23.00	25.00	23.00
9	Providing and fixing 12.5 feet high fencing in along the roads on L&R side banks of Bhakra Reservoir	54.98	No. 1443-45 dt. 23.1.13	30.00	50.00	0.00
10	Renovation of Nehru Centre at Bhakra	15.01	No.8473-75 dt. 10.5.13	14.00	15.50	0.00
11	Raising of walls at various reaches along Bhakra Nangal road protection from slippage of hills sides.	20.00	Work under Action plan 2014-15	0.00	0.00	20.00
12	Dam Break Analysis of Bhakra dam from N.I.H. Roorkee	26.47	Under Process	26.47	0.00	26.47
13	Memo for conversion of Techincal Record in E-Format	17.10	Memo submitted	0.00	0.00	17.10

14	Protection of Slopes in vicinity of timber ropeway by providing stone wire crates	10.00	Estimate sanctioned.	2.40	0.00	10.00
15	Furnishing of new PRO office bldg.	7.60	No.4098-102	1.00	0.00	7.60
16	Refurbishing of catering & dining arrangement of BBMB Canteen at RL-1700 L/S of Bh. Dam	5.00	Under Process	0.00	0.00	5.00
17	Replacement of 3 No. 315 KVA & 2 No. 100-11/0.440 KVA distribution Trasformar for use of BH. Elec. Divin. Nangal	12.00	No. 30656-61 Dt 14-11-2011	12.00	12.00	0.00
18	Prov. & installation of 1 No. high mast light at right side top of Bh. Dam	5.82	CE/Bh. Dam letter No.6783-85 dt.18.4.13	5.57	5.82	0.00
19	Prov. & installation of 1 No. high mast light in Amol Kaila park at Nangal.	5.57	No.8275-77 dt.8.5.13	5.57	5.57	0.00
20	Replacement of old 200 lines telephone exchange with new ones at Bh.Dam.	5.53	CE/Bh. Dam letter No.8970-72 dt.21.5.13	5.50	5.53	0.00
21	Replacement of old telephone Cable of communication System at Bh. Dam	11.00	Work under in Action plan 2013-14	5.00	11.00	0.00
22	Const. of office room, chowkidar rooms and staff toilet in disposal yard, BBMB, Nangal.	5.00	Under sanction	0.00	0.00	5.00
23	Providing one No. Tube well in DD - Block at Nangal	19.80	No. 1446-48 dt. 23.1.13	9.80	15.80	4.00
24	Renovation of 170 No. Quarters C-type two room Quarter & D.R. Class-IV quarter in FF & JJ Block at Nangal	296.00	No. 5761-63 dt.06.04.09	20.00	40.00	50.00
25	Construction of 500 No. quarters (double story for employees of BBMB in place of old quarters to be dismantled in A to C and G Block) at Nangal.	3024.00	No. 3436-41 dt.24.5.12	60.00	500.00	300.00
26	Widening of various roads in BBMB Colony at Nangal	20.45	No. 18408-10 dt. 13.12.11	1.00	12.80	0.00
27	Renovation of Sutlej Sadan and Bhakra Sadan at Nangal	22.50	No. 2002-04 dt. 05.2.13	12.50	13.00	0.00

PR

64

28	Providing Marble tiles on walls in Hall and Kota stone flooring on back side kitchen and court yard in BBMB Community Hall at Nangal Township	15.04	Action plan submitted	0.00	0.00	15.04
29	Providing Kota stone floor tiles in 20 No. class rooms and corri-door and renovation of Bath rooms of DAV Public School Nangal Township	31.56	Action plan submitted	0.00	0.00	31.56
30	Purchase of New Dumper placer, fully built and equipped driver cabin without bin fitted with 7 No 7.50X16 PR Nylon tyres	11.00	Action plan submitted	0.00	0.00	11.00
31	Providing and laying cement concrete pucca approach roads in officers bungalows at Nangal Township	33.35	Action plan submitted	0.00	0.00	15.00
32	Providing boundary walls around RVR Bungalow (11 to 22 RVR) at Nangal Township	13.44	Action plan submitted	0.00	0.00	13.44
33	Remodeling of open house drains in various Blocks at Nangal Township.	10.00	Action plan submitted	0.00	0.00	10.00
34	Const. boundary wall for park near LIC building at Nangal Township.	5.37	Action plan submitted	0.00	0.00	5.37
35	Providing cement concrete lanes and laying in Q, R and S Blocks at Nangal Township	12.24	Action plan submitted	0.00	0.00	12.24
36	Renovation modification and improvement in Public Model shed near PRO office.	46.00	No.34710-13 dt.11.12.12	8.00	8.00	0.00
37	Construction of new PRO Office and lounge with parking and laboratory block in B&B Design Directorate complex at Bh. Road, Nangal Township.	25.50	No. 32522-25 dt. 23.11.2012	20.00	0.50	25.00
38	Construction of Indoor stadium at Nangal including professional Architectural Services	250.00	No. 18275-79 dated 18.5.12	150.00	40.00	210.00
39	Construction of Boundary wall around proposed indoor stadium at Nangal Township	28.00	Proposed in action plan 2014-15	0.00	0.00	28.00

DR

65

40	Renovation of 24 Nos. quarter Regulation Beldar quarter at Nangal Dam (Head Works Section)	39.00	No. 32296-99 dt. 22.12.08	10.00	5.00	34.00
41	Renovation of 28 No. quarter Regulation Beldar at Ganguwal Colony	45.32	Revised Memo under process	10.00	0.00	25.00
42	Renovation of 36 No. quarters LIG/DS at Cancal Colony, BBMB Kotla	55.00	Revised Memo under process	10.00	0.00	25.00
43	Restoring & repair of temporary protection work down stream of NHC syphon at Lohand.	8.00	No.19884-86 dt.26.12.12	4.00	1.00	7.00

*[Handwritten signature]*

**List of Machinery & Equipment Works provided in Revised Budget Estimate for the year 2013-14 and budget Estimate for the year 2014-15 Under Head 2701-Major Irrigation, Bhakra Dam, Nangal.**

						(Rs. In lacs)
Sr. No.	Name of Work	Est. Cost	Sanction No. & Date	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
01 129 01 704 501)						
1	Obtaining Echo Sounder in silt Survey Sub Divn., Nangal	24.50	No.24871-74 dt.26.8.11	0.00	24.50	0.00
2	Purchase of diving dresses/ equipments required for diving team.	26.35	No.497-99/BBMB/4 BD dt.10.1.12	0.00	26.35	0.00
3	Purchase of 2 Nos. underwater digital video cameras with complete accessories and 2 Nos. under water digital still cameras.	12.80	No.9018-22/B-5/Estt-325/3 Irr. dt.17.4.12	6.40	6.40	6.40
4	Replacement of 1 No. Old Mini Bus B-33 with one No. New Tata Mini Bus 19 seater	9.00	Action plan Under sanction	0.00	0.00	9.00
5	Replacement of Dehumidifying Plant BH. At RL-1328	60.00	No. 15784-89m Dt 13-06-2012	57.00	60.00	0.00
6	Replacement of one No. Old Truck R-197 with one No. New Mini Truck Tata -407	7.00	Action plan Under sanction	0.00	0.00	7.00
7	Replacement of Two No. Jeep with Two No. New Mohindra Bolero	13.00	No.8720-23 Dt 13.04.2013	0.00	13.00	0.00
8	Replacement of Two No. Old Car CH-01- GI-0255 and CH-01-GI-1489 with Two No. Tata Indigo diesel	11.07	Memo approved	0.00	11.07	0.00
9	Repacement of 2 Nos old Tata Tippers with New ones. (One to purchased in 2013-14,& One in 2014-15)	34.70	Memo under submission	15.00	17.35	17.35
10	Purchase of Two No. Tata LPT 1613/ 42 Fire water tender 1000 gallon cap. In replacement of one No. water tender PAT-9172 Tata Type B 800 Gallon cap. For fire brigade at Bhakra Nangal Project	60.00	Revised Admn. Approval Rs. 53.90 lacs accorded during 13-14	26.95	30.00	30.00
11	Memo for designing providing installation and commissioning of intregrated security and surveillance system for Bhakra Dam	1000.00	Memo submitted	25.00	340.00	200.00

12	Providing 2 Nos 40 KVA Generator set of kirloskar complete with control Panel in Satluj Sadan & BBMB Hospital at Nangal	11.31	No. 16156-58 Dt 18.10.2012	0.00	11.30	0.00
13	Providing 19 No. Split A.C. of 2ton cap. in community hall near fire station at Nangal/providing 26.No.A.C. of 1.5 Ton Cap. Each in community hall near fire sation at Nangal Township	9.79	No. 4134-36 Dt 20.03.2012	13.04	5.38	0.00
14	Estimate for manufacture of one set (13 pics) of stop logs as replesment for the existing (old and used) of RHR of Nangal	45.00	No. 1932-34 dt. 16-2-2005	0.00	11.00	0.00
15	Erection of 1 No. 315 KVA substation for improvement of distribution system at Nangal.	6.60	Approved in Action Plan for 13-14.	6.00	6.60	0.00
16	Replacement of 1 No.500 KVA 11 KV/0.433 KV distribution t/f at Nangal.	5.50	Action Plan submitted.	0.00	0.00	5.50
17	Replacement of 2 No.Pumps for olinda water supply of Olinda.	5.00	Work under Action Plan 2014-15	0.00	0.00	5.00
18	Purchase of 2 No. water mixed fire fighting system ten liter capacity (CASF)	5.62		0.00	0.00	5.62





**Statement Showing the details of Budget Estimates under the Major Head "Social & Community Services  
(e) Economic Services (d) Irrigation flood control 2700 Major Commercial"**

Head of Account.	Actual expenditure 2012-13	Original Budget Estimates 2013-14	Revised Budget Estimates 2013-14	Budget Estimates 2014-15
------------------	----------------------------------	--------------------------------------------	-------------------------------------------	--------------------------------

**Beas Project BBMB Portion**

(Figures in lacs of ₹)

**Unit No. I BSL**

**Works Portion**

Major Works	501.89	943.03	756.68	1006.14
Minor Works	0.06			
Maintenance works	899.45	904.48	930.93	1014.86
Machinery & Equipment	38.09	213.49	166.57	220.54
Losses written-off				
Suspense	13.11	2.00	4.00	6.00

**Total works Unit No. I BSL**

	1452.60	2063.00	1858.18	2247.54
--	---------	---------	---------	---------

**Deduct Share Debitable to Power Wing**

	1365.44	1939.22	1746.69	2112.69
--	---------	---------	---------	---------

**Balance chargeable to Irrigation Wing**

	87.16	123.78	111.49	134.85
--	-------	--------	--------	--------

**Share between Partner State Govts**

Punjab	51 %	44.45	63.13	56.86	68.77
Haryana	34 %	29.64	42.08	37.91	45.85
Rajasthan	15 %	13.07	18.57	16.72	20.23

**Direction & Administration**

**Direction & Administration BSL**

	11894.95	12199.30	13088.29	13204.42
--	----------	----------	----------	----------

**Deduct Share Debitable to Power Wing**

	11181.25	11467.34	12302.99	12412.15
--	----------	----------	----------	----------

**Balance D&A chargeable to Irrigation Wing**

	713.70	731.96	785.30	792.27
--	--------	--------	--------	--------

**Share between Partner State Govts**

Punjab	51 %	363.98	373.30	400.50	404.06
Haryana	34 %	242.66	248.87	267.00	269.37
Rajasthan	15 %	107.06	109.79	117.80	118.84

**Grand Total Unit No. 1 Beas Dam**

	13347.55	14262.30	14946.47	15451.96
--	----------	----------	----------	----------

**Establishment and works**

	12546.69	13406.56	14049.68	14524.84
--	----------	----------	----------	----------

	800.86	855.74	896.79	927.12
--	--------	--------	--------	--------

	367.21	372.23	399.59	383.25
--	--------	--------	--------	--------

	1168.07	1227.97	1296.38	1310.37
--	---------	---------	---------	---------

--	--	--	--	--

**Share between Partner State Govts**

Punjab	51 %	595.72	626.26	661.15	668.29
Haryana	34 %	397.14	417.51	440.77	445.52
Rajasthan	15 %	175.21	184.20	194.46	196.56

**Unit No. 2 Pong Dam Talwara**

**Works Portion**

Major Works	115.88	262.75	275.47	111.50
Minor Works				
Maintenance works	360.43	406.16	442.73	499.61
Machinery & Equipment	155.23	326.75	347.50	186.15
Losses written-off				
Suspense	-27.43	4.34	8.00	8.45

**Total works Unit No. 2 Pong Dam**

	604.11	1000.00	1073.70	805.71
--	--------	---------	---------	--------

**Deduct Share Debitable to Power Wing**

	141.97	235.00	252.32	189.34
--	--------	--------	--------	--------

	462.14	765.00	821.38	616.37
--	--------	--------	--------	--------

**Share between Partner State Govts**

Punjab	24.9 %	115.07	190.48	204.52	153.47
Haryana	16.6 %	76.72	126.99	136.35	102.32
Rajasthan	58.5 %	270.35	447.53	480.51	360.58

**Direction & Administration Pong Dam**

	8337.51	9490.01	9817.86	10654.43
--	---------	---------	---------	----------

	1959.31	2230.15	2307.20	2503.79
--	---------	---------	---------	---------

	6378.20	7259.86	7510.66	8150.64
--	---------	---------	---------	---------

**Share between Partner State Govts**

Punjab	24.9 %	1588.17	1807.70	1870.15	2029.51
Haryana	16.6 %	1058.78	1205.14	1246.77	1353.01
Rajasthan	58.5 %	3731.25	4247.02	4393.74	4768.12

**Total Unit No. 2 Works & Establishment**

	8941.62	10490.01	10891.56	11460.14
--	---------	----------	----------	----------

**Deduct share debitable to Power Wing**

	2101.28	2465.15	2559.52	2693.13
--	---------	---------	---------	---------

<u>Balance debitale to Irrigation Wing</u>			6840.34	8024.86	8332.04	8767.01
Add Share Transferred from Power Wing			2155.49	3298.14	2959.23	3590.39
<u>Grand Total Unit No.2 Pong Power Plant Chargeable to Irrigation Wing</u>			8995.83	11323.00	11291.27	12357.40
<u>Share between Partner State Govts</u>						
Punjab	24.9 %		2239.96	2819.42	2811.53	3076.99
Haryana	16.6 %		1493.31	1879.62	1874.35	2051.33
Rajasthan	58.5 %		5262.56	6623.96	6605.39	7229.08
<u>Abstract Of Beas Project</u>						
Total works Unit No-1 BSL			1452.60	2063.00	1858.18	2247.54
Total works Unit No-2 Pong Dam			604.11	1000.00	1073.70	805.71
Grand Total Works Unit No. 1 & 2			2056.71	3063.00	2931.88	3053.25
Deduct Share Debitale to Power Wing			1507.41	2174.22	1999.01	2302.03
Balance works portion chargeable to Irrigation Wing			549.30	888.78	932.87	751.22
Total D & A Unit No-1 BSL			11894.95	12199.30	13088.29	13204.42
Total D & A Unit No-2 Pong Dam, Talwara			8337.51	9490.01	9817.86	10654.43
Total Unit No. 1 & 2, (D&A)			20232.46	21689.31	22906.15	23858.85
<u>Deduct Share Debitale to Power Wing</u>			13140.56	13697.49	14610.19	14915.94
Balance D&A Beas Project chargeable to Irrigation Wing			7091.90	7991.82	8295.96	8942.91
Balance works & D&A Beas Project chargeable to Irrigation Wing			7641.20	8880.60	9228.83	9694.13
<u>Add Share Unit No. 1&amp;2 transferred from Power Wing</u>			2522.70	3670.37	3358.82	3973.64
<u>Grand Total Beas Project Chargeable to Irrigation Wing</u>			10163.90	12550.97	12587.65	13667.77
<u>Shares between the partner State Govts.</u>						
Punjab			2835.68	3445.68	3472.68	3745.28
Haryana			1890.45	2297.13	2315.12	2496.85
Rajasthan			5437.77	6808.16	6799.85	7425.64

70

**ABSTRACT OF BUDGET ESTIMATES OF BEAS PROJECT (IRRI) UNIT-I, BSL, S. NAGAR**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2012-13	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
₹ in lacs						
1	Salaries of Regular/WC Empl.	251	7428.76	7821.19	8590.61	8584.84
2	Empl. Hired on Contract basis	252	67.68	46.81	85.56	83.66
3	Conveyance Allowance	253	109.44	101.43	100.43	106.24
4	Edu. Expn. Of DAV School	254	2.85	0.00	0.00	0.00
5	Wages of Daily Rated Empl.	255	0.35	6.04	0.40	0.45
6	TA.	257	36.62	46.25	40.28	42.30
7	LTC.	258	8.45	23.50	9.14	11.17
8	Salaries of Drivers	259	24.42	28.89	28.08	32.30
9	Computer.	260	4.79	9.20	5.20	6.20
10	Rent.	261	0.00	0.00	0.00	0.00
11	Purchase of Vehicle.	262	0.01	0.00	0.00	0.00
12	Insurance	263	0.00	0.00	0.00	0.00
13	Dispensaries	264	0.00	0.00	0.00	0.00
14	Medical charges.	266	140.03	75.15	98.65	97.50
15	Legal Services.	267	16.22	15.75	10.75	11.40
16	Printing & Stationery.	269	14.46	18.70	10.90	12.50
17	Postage & Telegram.	270	1.17	2.03	1.29	1.42
18	Telephone & Internet.	271	7.04	10.25	7.75	7.80
19	Electricity & Water.	272	14.03	11.97	10.70	12.47
20	Books & Periodical.	273	0.65	2.11	0.50	0.55
21	Advertisement.	274	0.00	2.51	0.50	0.55
22	Hot & Cold Weather charges.	275	0.33	1.65	0.50	0.55
23	Liveries.	276	7.85	11.01	8.72	9.59
24	Bank Collection charges.	277	0.00	0.00	0.00	0.00
25	Furniture.	278	0.77	9.08	1.50	1.75
26	Typewriters & Photostat Mach.	279	2.95	8.62	3.01	4.25
27	Misc. Office Expenses.	280	25.96	30.85	27.82	30.60
28	Material & Supply of Hospital.	281	3.96	10.00	3.24	5.00
29	Medicine.	283	5.02	8.24	5.52	6.52
30	Sports Activities.	286	0.42	2.50	1.90	1.90
31	Training & Seminars.	288	3.00	13.36	6.90	7.61
32	Entertainment catering etc.	289	0.66	1.68	0.79	0.95
33	Stipend	300	1.61	3.75	1.50	1.94
34	Scholarship	301	0.96	3.48	1.00	1.05
35	Pension.	302	3071.77	2639.00	3057.00	2949.00
36	Commutation of Pension.	303	187.61	217.00	121.25	245.01
37	EBA.	304	0.03	10.03	0.05	0.06
38	Gratuity & DCRG.	305	311.84	353.00	250.35	299.75
39	Leave Encashment.	307	308.37	282.00	225.25	255.75
40	Security Staff.	308	78.66	370.00	370.00	370.00
41	Awards & Prizes.	312	7.94	2.27	1.25	1.79
42	HBA.	313	-1.55	0.00	0.00	0.00
43	Conveyance/Vehicles advance.	314	-0.18	0.00	0.00	0.00
	<b>Total</b>		<b>11894.95</b>	<b>12199.30</b>	<b>13088.29</b>	<b>13204.42</b>

4

**ABSTRACT OF BUDGET EST. OF ESTABLISHMENT OF BEAS PROJECT (IRRI.) UNIT-II,  
PONG DAM, TALWARA.**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2012-13	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
₹ in lacs						
1	Salaries of Regular/WC Emp.	251	5215.53	5714.83	6083.13	6194.37
2	Salary of Drivers	259	67.13	69.37	75.83	83.41
3	Empl. Hired on Contract basis	252	0.78	0.00	2.94	3.23
4	Conveyance Allowance	253	81.69	82.09	85.09	87.12
5	Edu. Expn. Of DAV School	254	190.00	204.76	185.35	195.32
6	Wages of Daily Rated empy.	255	0.76	1.10	0.70	0.90
8	TA.	257	47.30	63.77	50.02	52.62
9	LTC.	258	3.36	5.23	5.23	6.25
10	Computer.	260	6.11	4.09	2.65	2.92
11	Rent.	261	0.00	0.00	0.00	0.00
12	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
13	Insurance	263	0.00	0.00	0.00	0.00
14	Dispensaries	264	0.00	0.00	0.00	0.00
15	Medical charges.	266	73.89	64.48	84.97	90.47
16	Legal Services.	267	2.36	2.85	3.25	3.75
17	Printing & Stationery.	269	10.33	15.00	13.37	14.50
18	Postage & Telegram.	270	0.27	0.64	0.35	0.40
19	Telephone & Internet.	271	2.27	3.27	3.27	3.99
20	Electricity & Water.	272	2.30	3.70	3.70	4.01
21	Books & Periodical.	273	0.24	0.22	0.30	0.33
22	Advertisement.	274	0.50	0.67	0.50	0.55
23	Hot & Cold Weather charges.	275	0.23	0.40	0.60	0.65
24	Liveries.	276	6.83	7.12	7.12	7.83
25	Bank Collection charges.	277	0.02	0.00	0.00	0.00
26	Furniture.	278	0.48	0.55	0.55	0.60
27	Typewriters & Photostat Mach	279	1.86	1.85	2.14	2.85
28	Misc. Office Expenses.	280	11.91	12.66	16.60	17.65
29	Material & Supply of Hospital.	281	0.64	0.83	0.70	0.80
30	Medicine.	283	5.67	8.50	5.00	5.80
31	Sports Activities.	286	0.00	0.84	2.00	1.20
32	Training & Seminars.	288	1.26	8.00	4.72	6.19
33	Entertainment catering etc.	289	0.20	0.25	0.29	0.33
34	Stipend	300	0.00	0.00	0.00	0.00
35	Scholarship	301	0.49	1.00	0.60	0.65
36	Pension.	302	1959.26	2294.80	2344.00	2833.00
37	Commutation of Pension.	303	72.99	157.58	120.58	158.50
38	EBA.	304	0.00	0.00	0.00	0.00
39	Gratuity & DCRG.	305	158.21	241.70	201.70	250.35
40	Leave Encashment.	307	235.40	227.00	219.75	304.00
41	Security Staff.	308	177.81	290.01	290.01	319.01
42	Awards & Prizes.	312	0.80	0.85	0.85	0.88
43	HBA.	313	-1.37	0.00	0.00	0.00
44	Conveyance/Vehicles advance.	314	0.00	0.00	0.00	0.00
	<b>Total</b>		<b>8337.51</b>	<b>9490.01</b>	<b>9817.86</b>	<b>10654.43</b>

*PK*

72

**List of Major Works provided in the Revised Budget Estimate for the year 2013-14 and Budget Estimate for the year 2014-15 under Head 2701 Major Irrigation Beas Project Unit-I, BSL, Sundernagar.**

(Rs. In lacs)						
Sr. No.	Name of work.	Est. Cost.	Sanction No. & Date.	O.B.G. 2013-14	R.B.E. 2013-14	P.B.E. 2014-15
<b>MAJOR WORKS (2701-01-130-01-701)</b>						
1	Providing wire crates near toe of Dam D/S of Relief well No. 5	5.00	Memo under process	10.00	5.00	0.00
2	Renovation of Memorial at Dam Site pandoh	16.00	NO.1503-06 Dt. 25/1/2012	15.90	1.00	15.00
3	Replacement of 11KV OCBs(2 Nos.) with new VCBs(2Nos) for main incomer 1 & 2 at Control room Pandoh Dam.	18.00	No. 9483-86 dt. 29/5/2013	1.00	18.00	0.00
4	Over Hauling of CL -79 American Moto crane at Pandoh	12.00	Approved action plan 2012-13	11.90	11.90	0.00
5	Estimate for Providing & installation of New guide for fixing trash rack of PBT intake pit of Pandoh.	47.50	Memo under process	15.00	5.00	5.00
6	Renovation of Annexe building at Rest Camp Manali.	12.00	Approved action plan 2012-13	6.00	3.00	9.00
7	Replacment of existing water supply at Pandoh	30.00	Action Plan. 2012-13	5.00	0.00	10.00
8	Replacment of sewerage line from Gurudwara to STP	30.00	Approved Action Plan.2012-13	5.00	5.00	20.00
9	Construction of C:C road from BSL School to New Colony Pandoh.	15.00	As per approved Action Plan 2012-13.	15.00	12.00	0.00
10	OM&R of Spillway PBT intake structure at Pandoh	Under Process	No.7314-17 dt.29.4.13	16.00	16.00	25.00
11	Contruction of Police Barrack for Security staff at Baggi.	15.00	Under Action plan 2014-15	10.00	0.00	10.50
12	Providing /Fitting and commissioning of Two No. 12KV vacum circuit breaker suitable for existing HT panel installed at BCW complex.	15.00	No. 4215-18 dt 7.3.2013	2.00	15.00	0.00
13	Providing/Fitting and commissioning of one No. bus coupler, Two No air circuit breaker (ACB),MCCBs contractor & limit switches for existing L.T Panel R/E Gate panel/Hoist at BCW complex(Baggi)	12.00	No. 4210-13 dt 7.3.2013	13.00	1.00	11.00
14	Restoration of Kansa aqueduct and chail aqueduct of Sundernagar hydel Channel.	20.00	Under action plan 2013-14	10.00	1.00	19.00

*SR*

15	Channelisation of Nallah along SNR hydel Channel on left side from RD 18000 to RD 18400 ft adjoining kansa aqueduct.	Under Process	Under action plan 2013-14	15.00	1.00	19.00
16	Restoration of Baggi aqueduct at RD 1780mtr Sundernagar Hydel Channel	30.00	Est submitted to CE BSL on dt 9.7.2013	10.00	15.00	10.00
17	Supply erecting testing & commissioning of two No electric division submersible pumps with motor & other related accessory with automatic control system at Baggi control works gallery. Suitable for 125 feet head having discharge capacity 5000 lt/per minute.	25.00	Under action plan 2013-14	0.00	0.00	24.50
18	Replacement of installation of 2 No. HT Pannel 11 KV breakers 400 Amp./rating and DC supply 30 volt battery charging system in Ropa Tail control room S/Nagar.	12.00	No.18937-40 dt.21/12/2011	11.50	0.50	11.50
19	Re-construction of side drain and a falls along SNHC.	23.61	C.E./BSL No.3438-41 dt.22/2/2012	21.50	15.00	5.00
20	Restoration of damaged portion D/S of Ghangal Aqueduct.	25.00	No.7680 dt.28/11/2011	6.00	20.00	0.00
21	Providing PCC Block pitching on L/s. of Sundernagar Hydel Channel on Ghangal Aqueduct.	15.00	No. 12300-03 dt 10.7.2013	5.00	10.00	5.00
22	Laying premix carpet on the existing road on the bank of SNHC and balancing reservoir (r/s from Rd) Laying premix carpet on the existing road on the bank of Sundernagar Hydel Channel and balancing reservoir (r/s from RD 42.06 mtr. To 1180.19 mtrs.) And L/S from Rd 1180.90 (DR bridge at Baggi) to 9968.18 mtrs. (AR bridge Dhanotu) of Hydel Channel and L.S of BR from RD 0 to 2100 mtr upto field offices at nung	60.00	No. 10041-42 dt 20.6.2013.	1.00	1.00	59.00

*PR*

23	Providing PCC Block pitching on L/s. and R/s. on inner slopes of SNHC RD 11729.31 mtr. To 11800 And near Dhanoutu Bridge at RD 9895-9965 mtr. And RD 9975-10045 and RD 11729-11800 both Bank.	33.00	Est. under sanction.2014-15	0.00	0.00	10.00
24	Replacement of old compressed air pipe line from compressor room to BCW complex by 3" dia GI pipe heavy duty with complete fitting.	15.00	Under Action Plan 2014-15	12.50	0.00	10.00
25	Const. of new parapets on left side of Sundernagar Hydel Channel from Baggi to Tail control by replacing the existing dowels.	63.00	Under Action Plan 2014-15.	3.00	0.00	10.00
27	OM&R upkeep of BCW gates, silt ejector gates and Baggi bye-pass Emg. Gate for regular releases from BSL(P)	30.50	No.12285-88 dt.10.7.13	12.00	12.00	12.00
29	Major repair of outfall near T-Junction. Of Bilaspur-Mandi road.	19.45	No. 30422-26 dt.11.11.2011	10.00	9.00	0.00
30	Construction of 90- No. new S-2 type houses Phase-III.	766.00	CE/BSL No.5209-12 dt. 16.3.09	80.00	94.00	0.00
31	Proc. of 1 No. 125 HP VT pump in water works BBMB Colony Sundernagar along with 1 HP centrifugal mono block pump in water storage tank.	15.00	CE BSL No. 15680-83, dt. 18.09.12	0.00	15.00	0.00
32	Repair and restoration of damaged sewerage line in Changar area in BSL Colony Sundernagar.	40.20	As per Action plan for 2012-13	10.00	0.00	10.00
34	Construction of Store room boundary wall with gate for BBMB fire Station Sundernagar.	13.50	CE BSL No. 5106-09, dt. 20.03.13	10.00	8.00	5.00
35	Extension of ground providing boundary wall and re-construction of existing kitchen in BSL Staff Club at Sundernagar.	35.00	As per Action plan for 2012-13	9.00	1.00	10.00
36	Construction of boundary wall around S-2 type houses (Phase – III & IV cum-play ground) at New Colony BBMB Sundernagar.	30.00	CE BSL No. 11078-81, dt. 25.06.2013	10.00	12.00	15.00
37	Renovation of Preparatory Model School at Sundernagar	30.00	Action Plan 2013-14	0.00	0.50	20.00

38	Renovation/providing modular furniture in central office complex and Xen's rooms	50.00	Action Plan 2013-14	5.00	5.00	25.00
39	Renovation of BSL Sr. Sec. School, Sundernagar & development of playground.	80.00	Action Plan 2013-14	10.00	1.00	10.00
40	Renovation of 5 Nos. S-5 type house and 10 nos. S-4 type houses, 15 no. S-3 type houses & 25 no S-2 type houses in BBMB Colony Sundernagar (HP)	120.00	Action Plan 2013-14	10.00	15.00	25.00
41	Renovation of Dy. C.A.O. office complex at Sundernagar (HP)	21.00	Action Plan 2013-14	5.00	1.00	20.00
42	Construction of boundary wall around over head tank in S-1 area and pump house in new colony area alongwith construct of 2 nos. gentry structure for submersible pump sets in new colony and water works at BBMB Colony Sundernagar (HP)	20.00	CE BSL No. 13502-05, dt. 26.07.13	10.00	15.00	5.00
44	Renovation of Sr. Sec. Model School, Sundernagar (Replacement of wood work i.e. Doors & Windows, door & steel section, scooter shed, construction of basket ball ground etc.)	35.00	Action Plan 2013-14	8.00	0.00	10.00
45	Renovation of Model room, & waiting room for Drivers and Security Personal in Suket Sadan including construction of toilet.	12.00	Action Plan 2013-14	10.00	2.00	10.00
46	Renovation of existing labour recreation centre at Sundernagar	15.00	No. 4053-56/ BSL dt. 04.04.2011	5.00	5.00	10.00
48	Development of garbage disposal site for colony at SNR. by Municipal Committee SNR	39.76	Under Process	0.00	0.00	10.00
49	Construction of office building complex for three nos. Sub Divisions of Township Division including CC approach pavement and parking shed at BBMB, Sundernagar	42.00	Proposed in Action Plan 2014-15	0.00	0.00	10.00

98



50	Laying of premix carpet on main central road from Suket Sadan to T-junction on Bilaspur Mandi Road, circular road No. 1 from Hospital Chowk to Workshop Gate A and link roads with providing of sign boards and speed breakers on roads of BSL Colony at Sundernagar.	98.00	Under Process	0.00	0.00	40.00
51	Construction of police guard room/ Barrack for Penstock police Guard at Slapper.	15.00	CE SBL No.4004-07 dt.25/2/2009	5.00	5.00	10.00
52	Replacement of existing 7 No. oil circuit breaker (2 No.s in coming & 5 No. outgoing) with latest ACB for DPH, BBMB, Colony, S/Shaft, Gate Chamber, Switch yard & commercial feeders at Slapper Substation.	40.00	U/ sanction	1.00	40.00	0.00
53	To replace 4 Nos in coming H.T. Oil circuit breakers and 8 Nos out going O.C.B in 11 kv control room at BSL ( P) Sundernagar and renovation of control room.	60.00	Under Action Plan New work 2012-13	60.00	50.00	5.00
54	Repair of American moto crane CL-16( Crane side)	40.00	Under Action Plan New work 2014-15	18.00	0.00	12.00
55	Replacing of ACSR 11 KV double feeder from Sundernagar to Baggi (BCW) with aerial bunched cable 11 K.V. of size 3×120+95 ACSR Conctors double feeder from Sundernagar to Baggi	400.00	Under Action Plan New work 2013-14	1.00	0.00	50.00
56	Renovation of workshop building complex (including renovation of division and sub division offices & laying cement conc. Road from Gate A to Gate B in workshop area)	100.00	Under Action Plan New work 2013-14	15.00	12.00	0.00
57	AM&R & OPR. Of 3 No. dredger in BR SNR during 2013-14	768.00	SE No.11984-87 dt.4.7.13	384.00	384.00	384.00
58	Estimate for renovation of D Type houses(68 Nos.) in BBMB Colony, Sector 35-B, Chandigarh.	99.79	CE/BSL No. 21287-90/BSL/T-3 dt.22.12.10	25.00	10.00	50.00

74

59	liabilities to other works(Providing Protection to Suketi diversion channel from R.D 0-7800)Providing Protection to Suketi Diversion Channel from RD-0 to 2200 and RD-7400 to 7800 u/s & d/s of V.R. Bridge at Sundernagar.	15.17	C.E BSL No.5518-21/BSL/T-3 dt. 30-03-2012	0.00	15.00	0.00
60	Repair of damages of Suketi diversion channel during the rainy season 2013-14	15.50	Approved Under action plan 2013-14	10.00	5.50	10.00
61	Repair of damages of Suketi diversion channel during the rainy season 2014-15	15.00	Under action plan 2014-15	0.00	0.00	15.00

*[Handwritten signature]*

**List of Machinery & Equipment Works in respect of Revised Budget Estimate for the year 2013-14 and Budget Estimate for the year 2014-15 under Head 2700 Major Irrigation Beas Project, Unit-I, Sundernagar.**

(Rs. In lacs)						
Sr. No.	Name of Work	Est. Cost	Sanction No. & Date	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
<b>MACHINERY &amp; EQUIPMENT WORKS</b>						
1	Providing and fixing chain linked fencing with barbed wire at top on up stream side of Pandoh Dam at Both ends.	25.00	Memo under process	7.00	5.00	20.00
2	Security equipment as per IB report/ CC T.V. camra . QRT vehicle	113.00	under process	20.00	10.00	2.00
3	Memo for fabrication of 2 No. Bullet proof watch tower for Pandoh Dam	15.00	under process	15.00	1.00	10.00
4	Illumination of left & right bank/upstream & downstream - 500 mtr.Each side of river Beas at Pandoh Dam	19.19	Approved	19.09	19.00	0.00
5	Proc. Of wheel excavation Loader in replacement of Tractor type front end loader (CL-100)	22.79	Memo under sanction	1.00	0.50	17.00
6	Proc; of 2 Nos. 1512 TC 52 Seater Bus in replacement of BL-110 & BL-111.	38.00	Under Action plan 2012-13	20.00	20.00	0.00
7	To replace one Nos. TMB trunk RL-363 (HP-31-3510	16.64	Under Action Plan New work 2012-13	1.00	0.00	16.64
8	All geared high precision lethe confirming machine cont. to standard of grade A as per IS 1778 accurate with fitness and accessories.	18.00	Under Action Plan New work 2012-13	18.00	3.00	12.00
9	Replacement of 2 Nos Buses of 42 seater against replacement of BL-112 & BL-113, Proc. Of 1 No. TATA buses 43 seater model 1512 TC in built in replacement of bus BL-114	35.00	Under Action Plan New work 2013-14	20.00	1.00	20.00
10	Procurement of two No. ambulance for BSL Hospital , Sundernagar against surveyed off.	Under Process	Under action plan New Work 2014-15	0.00	10.00	10.00
11	Fabrication of additional one set of six No. Trash racks for Intake Structure at Punh	12.00	Approved Under action plan 2013-14	2.00	12.00	0.00

*Handwritten signature*

79

12	Obtaining 1 No. Foam and CO2 type fire tender for BSL Project in replacement of old fire tender RL-352.	37.80	Submitted for Revised Admn. Approval from B.O.	15.00	0.00	30.00
13	Replacement of 2 Nos. Fire Tenders i.e. RL-354 and RL-368	63.87	No. 12644-47 dt.18.04.2013	0.00	30.00	29.00
14	Estimate for purchase of 1 No. TATA 207 vehicle for the use of Civil Mtc. Divn., BBMB, Chd.	6.70	under process	6.70	6.70	0.00
15	Proc./ obtaining 20 garbage inclinometer/ dustbin alongwith 1 No. centre dumper placer for use in BSL Colony, Pandoh.	16.15	No.1824 dt.29.10.06	0.00	0.00	8.00
16	Proc. 1 No. Tavera in replacement of Tata Sumo VL-89	7.00	Under Action Plan 2012-13	0.00	0.00	7.00
17	Proc. Of 3 No. Cars	20.00	No.8689-90 dt.29.5.12	0.00	8.00	6.00
18	Proc. of Universal milling machine Horizontal, vertical typed.	8.00	Under Action Plan 2014-15	0.00	0.00	8.00
19	Proc. Of 1 New Tata Indigo CS in rep. of 1 No. Amb. Car VL-98	8.00	under process	0.00	0.00	8.00



**List of Major Works provided in Revised Budget Estimate for the year 2013-14 and Budget Estimate for the year 2014-15 under Head 2701 Major Irrigation Beas Project, Unit-II, Pong Dam, BBMB, Talwara.**

(Rs. in lacs)

Sr. No.	Name of Work	Amt. of Estimate	Sanction No. & date	Original Budget Est. 2013-14	Revised Budget Est. 2013-14	Proposed Budget Est. 2014-15
	<b>27010113002-701-501</b>					
1	Providing 50mm thick B.M. And 20 mm thick P.C. with seal coat from canteen to right side gallery road & round about of Design Office at Dam site area.	11.70	CEBD No. 7565-66 Dt. 8.6.2013	12.00	11.70	0.00
2	Est. for carrying out review of GTS & reference bench marks at Beas Dam by Survey of India.	32.00	Under Sanction	0.00	26.00	6.00
3	Finishing outer walls with exterior decorative cement based paint (Snowcem) & plastering of damaged plastered portion of T-1, T-2, T-3 houses in Sector 1,2 & 3 at Talwara Phase-IV.	16.44	CEBD No3902-03 dt20.03.13	16.50	8.50	0.00
4	Providing and laying premix carpet (renewable coat) on V-2, V-5 roads & internal roads in office complex area in BBMB colony at Talwara Township. (Phase - II)	74.00	CEBD No2744-45 dt27.02.13	65.00	74.00	0.00
5	Providing and laying premix carpet (renewable coat) on V-6 roads, roads in front of SCF/SCR in sector-1, 2, 3 in BBMB colony at Talwara Township.	65.00	CEBD No11448-49 dt31.08.12	65.00	65.00	0.00
6	Outsourcing the work of sanitation and conservancy and disposal of solid waste by segregation at door steps in BBMB colony at Talwara.	47.00	under process	19.00	15.00	32.00
7	Constructing solid waste disposal pits, fencing of area for implantation of solid waste under Act, 2000 in BBMB Colony Talwara.	16.00	under process	13.00	13.00	3.00
8	Replacement of existing old conglomerate flooring of room of BBMB DAV public school Talwara with kota stone flooring (phase -1)	27.16	CEBD No5862-63 dt03.05.13	28.00	21.50	0.00
9	Strengthening of pillar & columns repair of walls cement based painting & finishing outer portion of 4 nos. booth market sector 1&3 of BBMB colony at Talwara	15.00	under process	15.00	10.00	5.00
10	Outsourcing the work of running & maintenance of Rock Garden at Talwara T/ship	36.55	CEBD No16297-98 dt13.12.12	18.00	12.00	24.00
11	Renovation of auditorium hall in officers club premises by replacing roofing and false ceiling etc Talwara.	20.00	Under process	0.00	0.00	20.00

81

81

12	Outsourcing watch & ward/Petrolling in BBMB Colony Talwara Township alongwith vital installations of BBMB around Talwara Township during 2013-14	10.00	under process	0.00	0.00	10.00
13	Spl. Repair & sealing of expansion joints in BBMB Hospital building at Talwara.	2.50	under process	2.50	2.50	0.00
14	Const. one No. covering structure for housing DG set at sewage treatment plant, Talwara.	2.50	under process	2.50	2.50	0.00
15	Furnishing of existing hall in BBMB officers club, complex Talwara by prov. Floor tiles, curtains, fixtures/furnitures, Air conditioning etc. to convert it in confrence/seminar hall in BBMB Talwara Township.	5.50	under process	0.00	0.00	5.50
16	Renov. of gate of rock garden & water proofing/ cealing of water ponds of rock garden, Talwara Township during 2013-14	3.25	CE/BD No.1787-88 dt.1.2.13	0.00	3.25	0.00

*BP*

**List of Machinery & Equipment works provided in the Revised Estimate for 2013-14 and Budget Estimate for 2014-15 under Major Irrigation Head M&E Beas Project, Unit-II, Pong Dam, BBMB, Talwara.**

(Rs. In lacs)						
Sr. No.	Name of Work	Amt. of Estimate	Sanction No. & Date	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Proposed Budget Estimate 2014-15
<b>27010113002-704-501 (M&amp;E)</b>						
1	Outsourcing of 5 No. jeeps with Bolero/Tavera/Tata-Sumo at Beas Dam BBMB Talwara.	17.00	Under Process	0.00	0.00	17.00
2	Replacement of 2 No. jeeps with Bolero/Tavera/Tata-Sumo.	14.00	Under Process	14.00	14.00	0.00
3	Replacement / Modernization of 3 no. elevators on Beas Dam.	45.00	Under process	30.00	45.00	0.00
4	Replacement of Two nos. Tata Trucks of model 1210 with model 1510 for use in Beas Dam BBMB Talwara.	45.00	Under Process	45.00	30.00	15.00
5	Special repair of crane(CB-49) working at Beas Dam BBMB Talwara.	35.00	Under Process	20.00	30.00	5.00
6	Replacement of 1 No. Pump 200 HP with motor & starter for use in Beas Dam, BBMB, Talwara for 2013-14 (out of 4 No. Pumps)	7.00	Under Process	7.00	7.00	0.00
7	Replacement of 1 No. Pump 200 HP with motor & starter for use in Beas Dam, BBMB, Talwara for 2014-15 (out of 4 No. Pumps)	8.50	Under Process	0.00	0.00	8.50
8	Obtaining 1 No. DG set 66 K w/82.5 KVA capacity 3phase 400/440 volts alternater coupled with suitable engine water cooled of reputed made fitted in sound proof enclosure for use on Beas Dam. BBMB. Talwara.	6.00	Under Process	0.00	6.00	0.00
9	Obtaining 1 No. Lathe Machine 10 ft. OBM Automatic Gear System full stroke spindle bore 4.5 inches hight of centre 14 inches Bist of bed 16 inches for use on Beas Dam, BBMB, Talwara.	8.00	Under Process	0.00	0.00	8.00
10	Obtaining 1 No. 500 KVA/11/433/KV rating outdoor type distribution transformer 3 phase 50 HZ oil immersed naturelly cooled QNAN type copper bound suitable for outdoor installation confirming to IS 2026 with off load tap changer and other necessary standred fitting & filled with t/f oil.	5.00	Under Process	0.00	0.00	5.00

*[Signature]*

*[Signature]*

11	Obtaining one no.Truck part of (250-260 HP) of the Truck Trailor for use on Beas Dam BBMB Talwara	30.00	under process	30.00	30.00	0.00
12	Replacement of pipes (600 Mtr.) wherever required to ensure Un-interrupted air/ water supply in Beas Dam area.	4.50	under process	15.00	4.50	0.00
13	Purchase of security equipments (Phase-1)	353.33	Under process	60.00	60.00	60.00
14	Purchase one No. water tender type-B bus chassis Tata model LPT-turbo 1613/41 in replacement of old water tender tyne-B RB-166 (PB-07A-9936)	24.51	CE BD No.4644-45 dt.5.4.2013	13.00	13.00	0.00
15	Installation of sewerage treatment plant (STP) in BBMB, colony Talwara.	852.91	CEBD No. 3383-84 dt. 16.03.2010	20.00	28.00	20.00
16	Replacement of old pipe line (IWS) from ferrule to bathroom in 300 no. T-1toT-5 houses in sector 1,2&3 in BBMB colony at Talwara.	18.00	Under process	18.00	0.00	18.00
17	Obtaining 20 no. Garbage container for using in BBMB colony Talwara.	12.00	Under process	12.00	12.00	0.00
18	Obtaining One No. D.G. set of suitable capacity for use at STP at sector -4 Talwara.	32.00	Under process	22.00	32.00	0.00
19	Replacement of old & used 170 HP Kirloskar make horizontal pump with motor starter & other accessories at water works Talwara.	8.50	Under Process	7.50	8.50	0.00
20	Replacement of 3 No. old Jyoti make VT Pumps of wate supply scheme in BBMB colony at Talwara Township.	8.00	Under Process	0.00	0.00	8.00
21	Obtaining 10 No. splite AC 1.5 ton for use in BBMB Guest House, Talwara Township.	4.50	Under Process	0.00	0.00	4.50
22	Replacement of 10 No. old TV sets with LED TV set in BBMB Guest House in Shivalik Sadan Talwara Township.	4.50	Under Process	0.00	0.00	4.50
23	Obtaining 1 No.DG set 62.5 KVA for use in BBMB Hospital, Talwara Township.	6.50	Under process	0.00	6.50	0.00

PK

84



**Detail of Budget Estimates under Major Head "280101-Power Hydel Generation-280105-Power Hydel  
Transmission " in respect of Bhakra Complex Power Houses Bhakra Nangal Project**

S. No	Head of Account.	Actual Expenditure 2012-13	Original Budget Estimates 2013-14	Revised Budget Estimate 2013-14	Budget Estimates 2014-15
-------	------------------	-------------------------------	--------------------------------------	------------------------------------	-----------------------------

**Bhakra Complex Power Houses**

(Figures in lacs of Rupees)

**280101 Power Hydel Generation**

**Works Portion**

**A Works of Capital nature chargeable**

**to Revenue**

**I. Electrical Works**

**MP-I Generation**

**MP-I X Works**

**Total Electrical works**

**ii. Civil Works**

**MP-I works**

**M-IX Works**

**Total Civil Works**

**Grand Total Capital Nature of Works**

**B. Normal Operation & Maintenance**

**Works**

**MP-I Generation**

**MP-I X Works**

**MP-XIV losses written off**

**Net Debit to Suspense**

**Grand Total Operation & Maintenance**

**Works**

**Grand Total Generation Works A & B**

**Establishment**

**MP-I Generation**

**MP-IX**

**GA-2**

**CO-1**

**GA-5**

**Misc. Exp. prior to Oct., 2011 PSPCL**

**Misc. Exp. prior to Oct., 2011 HVPNL**

**Misc. Exp. prior to Oct., 2011 RVPNL**

**Total Establishment Generation MP-I+MP-IX+GA-2+CO1+GA-5**

**Total 2801-Generation Works &**

**Establishment**

**Modernization & Upgrading**

**Major Head 280105 Power Hydel**

**Transmission**

**Works Portion**

**A Works of Capital nature chargeable**

**to Revenue**

**I. Electrical Works**

**MP-II Transmission**

**MP-I X Works**

**Total Electrical works**

**Civil Works**

**MP-II works**

**MP-IX Works**

**Total Civil Works**

**Grand Total Capital Nature of Works**

**B. Normal Operation & Maintenance**

**Works**

**MP-II Transmission**

**MP-I X Works**

**MP-XIV losses written off**

**Net Debit to Suspense**

**Deduct R & R**

**Total Operation & Maintenance Works**

Grand Total Transmission Works	649.52	1367.23	1592.13	4087.46		
Capital & Operation Works						
<b><u>Establishment</u></b>						
<u>MP-II Transmission</u>	4416.26	4935.61	4891.59	4841.43		
<u>MP-IX</u>	2017.00	2012.45	2153.03	2128.94		
<u>GA-2</u>	569.78	584.37	610.87	621.68		
<u>CO-I</u>	1660.19	1883.99	1985.40	1920.62		
<u>GA-5</u>	447.40	482.90	458.94	471.33		
<u>GA-3</u>						
<u>Total Establishment Generation MP-I+MP-IX+GA-2+CO1+GA-5+GA3</u>	9110.63	9899.32	10099.83	9984.00		
<u>Grand Total 2805-Transmission Works &amp; Establishment</u>	9760.15	11266.55	11691.96	14071.46		
<b><u>Total Bhakra Complex Power Houses</u></b>						
Works of Generation	887.06	3361.47	2332.12	3243.95		
Works of Transmission	649.52	1367.23	1592.13	4087.46		
<u>Total Works</u>	1536.58	4728.70	3924.25	7331.41		
<b><u>Establishment</u></b>						
Generation	6484.14	7241.95	7350.87	7720.59		
Transmission	9110.63	9899.32	10099.83	9984.00		
<u>Total Establishment</u>	15594.77	17141.27	17450.70	17704.59		
<b><u>Total Works &amp; Establishment</u></b>						
280101 - Power Hydel Generation	7371.20	10603.42	9682.99	10964.54		
280105 - Power Hydel Transmission	9760.15	11266.55	11691.96	14071.46		
uprating	573.04	15000.00	7500.00	12500.00		
<u>Grand Total Bhakra Complex Power Houses</u>	17704.39	36869.97	28874.95	37536.00		
<b><u>Houses</u></b>						
Add Share Transferred from Irrigation Wing	9676.70	12098.66	12740.18	13314.33		
<u>Grand Total</u>	27381.09	48968.63	41615.13	50850.33		
Shares between the Partner State Electricity Boards.						
PSPCL	51.80	%	12027.39	21505.08	18275.72	22331.45
HVPNL	37.51	%	8709.60	15572.50	13234.02	16170.90
RVPNL	15.22	%	4170.26	7453.03	6333.82	7739.42
HPSEBL	7.19	%	1663.88	2984.97	2536.73	3099.67
UT, Chandigarh	3.50	%	809.96	1453.05	1234.85	1508.88

**Abstract of Budget Estimates of Establishment of Power Wing 'Bhakra' (P.W.)**

Sr. No.	Detailed Head/ Object Heads of Accounts	CODE	Actual Expend. 2012-13	Budget Estimates 2013-14	Revised Budget Est. 2013-14 -	Budget Estimates 2014-15
(₹ in Lacs)						
1	Salaries of Regular/WC Emp.	251	11078.84	12344.94	12799.32	12467.99
2	Empl. On Contract basis	252	80.89	51.55	121.07	117.04
3	Conveyance Allowance	253	120.57	144.41	140.91	152.12
4	Wages of Daily Rated Emplys.	255	4.29	5.65	4.61	5.53
5	TA.	257	101.01	106.55	114.88	125.42
6	LTC.	258	17.78	15.55	55.54	28.29
7	Pay of Drivers.	259	19.01	8.24	8.71	9.40
8	Computer.	260	95.82	336.41	62.14	419.70
9	Rent.	261	0.01	0.34	0.00	0.00
10	Purchase of Vehicle.	262	3.98	0.00	0.00	0.00
11	Insurance	263	0.09	0.17	0.08	0.08
12	Dispensaries	264	0.22	0.43	0.10	0.12
13	Medical charges.	266	93.89	122.10	106.71	93.76
14	Legal Services.	267	11.94	4.71	10.84	5.89
15	Printing & Stationery.	269	20.56	18.20	25.41	26.27
16	Postage & Telegram.	270	3.28	3.09	4.71	4.78
17	Telephone & Internet.	271	43.53	32.58	32.31	39.98
18	Electricity & Water.	272	41.89	47.74	45.75	48.57
19	Books & Periodical.	273	1.46	0.76	1.93	2.11
20	Advertisement.	274	4.81	3.63	8.64	9.19
21	Hot & Cold Weather charges.	275	1.58	2.59	5.80	5.53
22	Liveries.	276	7.10	9.73	11.58	13.29
23	Bank Collection charges.	277	0.00	0.00	0.00	0.00
24	Furniture.	278	1.18	3.70	5.12	6.57
25	Typewriters & Photostat Mach.	279	8.35	7.01	9.10	10.27
26	Misc. Office Expenses.	280	61.77	57.02	129.74	156.14
27	Material & Supply of Hospital.	281	0.04	0.15	0.20	0.30
28	Medicine.	283	0.06	0.93	0.70	0.83
29	Sports Activities.	286	2.04	2.02	4.35	5.80
30	Training & Seminars.	288	10.89	19.78	27.58	25.04
31	Entertainment catering etc.	289	0.89	0.95	1.15	1.27
32	Stipend	300	3.76	6.19	7.79	12.07
33	Scholarship	301	1.31	3.90	3.22	1.83
34	Pension.	302	1616.04	1712.43	1819.75	1907.63
35	Commutation of Pension.	303	457.01	454.68	358.80	394.52
36	EBA.	304	0.00	0.00	0.00	0.00
37	Gratuity & DCRG.	305	593.49	569.56	508.13	518.58
38	Leave Encashment.	307	552.10	599.15	476.66	587.52
39	Security Staff.	308	240.95	441.18	534.38	497.79
40	Incentive to partner States.	310	255.38	0.00	0.00	0.00
41	Awards & Prizes.	312	60.41	3.25	2.99	3.37
42	HBA.	313	-21.59	0.00	0.00	0.00
43	Conveyance/Vehicles advance	314	-1.86	0.00	0.00	0.00
	<b>Total</b>		<b>15594.77</b>	<b>17141.27</b>	<b>17450.70</b>	<b>17704.59</b>

*R*

-87-

**Detail of Budget Estimates under Major Head "280101-Power Hydel Generation-280105-Power Hydel Transmission" in respect of Beas Project Chargeable to Power Wing Unit No. 1 & 2 BSL Dehar Power Plant Unit No-1 Pong Power Unit No.-2 and Beas Transmission Line**

S.No.	Head of Account.	Actual Expenditure for 2012-13	Org. Budget Estimates 2013-14	Revised Budget Est. 2013-14	Budget Estimates 2014-15
-------	------------------	--------------------------------	-------------------------------	-----------------------------	--------------------------

**Dehar Power Plant Unit No. I**  
(Power Wing)

(Figures in lacs of ₹)

**280101 Power Hydel Generation**

**Works Portion**

**A. Works of Capital nature chargeable to Revenue**

**Electrical Works-**

MP-I Generation	513.69	117.27	121.75	153.00
MP-II Transmission	-1.39	78.00	65.00	
MP-I X Works	6.37	4.00	12.00	
<b>Total Electrical works</b>	<b>518.67</b>	<b>199.27</b>	<b>198.75</b>	<b>153.00</b>

**Civil Works**

**MP-IX General Expenses**

MP-IX Works	0.07	39.44	32.61	17.15
<b>Total Civil Works</b>	<b>0.07</b>	<b>39.44</b>	<b>32.61</b>	<b>17.15</b>

**Grand Total Capital Nature of Works**

	<b>518.74</b>	<b>238.71</b>	<b>231.36</b>	<b>170.15</b>
--	---------------	---------------	---------------	---------------

**B. Normal Operation & Maintenance Works**

MP-I Generation	1976.94	1633.21	1838.84	2055.62
MP-II Transmission	16.75	336.27	102.96	427.73
MP-I X Works	79.06	238.47	203.57	194.86

**MP-XIV - Losses Written off**

Net Debit to Suspense	150.31	285.00	805.84	169.00
-----------------------	--------	--------	--------	--------

<b>Grand Total Operation &amp; Maintenance Works</b>	<b>2223.06</b>	<b>2492.95</b>	<b>2951.21</b>	<b>2847.21</b>
------------------------------------------------------	----------------	----------------	----------------	----------------

<b>Grand Total Generation Works A &amp; B</b>	<b>2741.80</b>	<b>2731.66</b>	<b>3182.57</b>	<b>3017.36</b>
-----------------------------------------------	----------------	----------------	----------------	----------------

Deduct Share Debitable to Irr.Wing @ 6%	164.51	163.90	190.95	181.04
-----------------------------------------	--------	--------	--------	--------

<b>Balance Power Wing</b>	<b>2577.29</b>	<b>2567.76</b>	<b>2991.62</b>	<b>2836.32</b>
---------------------------	----------------	----------------	----------------	----------------

**Shares between the partner State Elec.Boards**

P.S.P.C.L.	51.80 %	1068.03	1064.08	1239.73	1175.37
H.V.P.N.L.	37.5 %	773.39	770.53	897.73	851.12
R.V.P.N.L.	20.00 %	515.46	513.55	598.32	567.26
H.P.S.E.B.L.	7.19 %	148.25	147.70	172.08	163.15
U.T. CHD	3.50 %	72.16	71.90	83.77	79.42

**Establishment**

<b>MP I Generation</b>	<b>1726.48</b>	<b>1986.99</b>	<b>2017.89</b>	<b>1905.99</b>
------------------------	----------------	----------------	----------------	----------------

<b>MP-II Transmission</b>	<b>57.68</b>			
---------------------------	--------------	--	--	--

<b>MP IX</b>	<b>1495.43</b>	<b>1358.88</b>	<b>1323.88</b>	<b>1337.88</b>
--------------	----------------	----------------	----------------	----------------

<b>CO-1</b>	<b>98.81</b>	<b>126.26</b>	<b>135.57</b>	<b>126.26</b>
-------------	--------------	---------------	---------------	---------------

<b>Total Establishment Generation</b>	<b>3378.40</b>	<b>3472.13</b>	<b>3477.34</b>	<b>3370.13</b>
---------------------------------------	----------------	----------------	----------------	----------------

Deduct Share Debitable to Irr.Wing	202.70	208.33	208.64	202.21
------------------------------------	--------	--------	--------	--------

<b>Balance Power Wing</b>	<b>3175.70</b>	<b>3263.80</b>	<b>3268.70</b>	<b>3167.92</b>
---------------------------	----------------	----------------	----------------	----------------

**Shares between the Partner State Elec.Boards.**

P.S.P.C.L.	51.80 %	1316.01	1352.52	1354.55	1312.79
H.V.P.N.L.	37.5 %	952.96	979.40	980.87	950.63
R.V.P.N.L.	20.00 %	635.14	652.76	653.74	633.58
H.P.S.E.B.L.	7.19 %	182.67	187.73	188.02	182.22
U.T. CHD	3.50 %	88.92	91.39	91.52	88.70

<b>Total Gross Works Unit No. I</b>	<b>2741.80</b>	<b>2731.66</b>	<b>3182.57</b>	<b>3017.36</b>
-------------------------------------	----------------	----------------	----------------	----------------

<b>Total Gross Establishment Unit No.I</b>	<b>3378.40</b>	<b>3472.13</b>	<b>3477.34</b>	<b>3370.13</b>
--------------------------------------------	----------------	----------------	----------------	----------------

Total Gross Works & Establishment		6120.20	6203.79	6659.91	6387.49
Less Share Debitable to Irr. Wing		367.21	372.23	399.59	383.25
Balance		5752.99	5831.56	6260.32	6004.24
Add Share Transferred from Irrigation Wing		12546.69	13406.56	14049.68	14524.84
<b>Grand Total Unit No.1 BSL Dehar Power Plant</b>		<b>18299.68</b>	<b>19238.12</b>	<b>20310.00</b>	<b>20529.08</b>
Shares between the Partner State Elec.Boards.					
P.S.P.C.L.	51.80 %	7583.39	7972.28	8416.46	8507.25
H.V.P.N.L.	37.5 %	5491.37	5772.98	6094.62	6160.36
R.V.P.N.L.	20.00 %	3659.94	3847.62	4062.00	4105.82
H.P.S.E.B.L	7.19 %	1052.60	1106.58	1168.23	1180.83
U.T., CHD	3.50 %	512.39	538.67	568.68	574.81

**Unit No.2 PONG POWER PLANT  
CHARGEABLE TO POWER  
WING**

<b><u>Works Portion</u></b>					
<b>A</b>	<b><u>Works of Capital nature chargeable to Revenue</u></b>				
	<b><u>Electrical works</u></b>				
	MP-I Generation	573.65	1687.25	969.78	1852.10
	MP-II Transmission			0.70	
	MP-I X Works	9.03			
	<b>Total Electrical works</b>	<b>582.68</b>	<b>1687.25</b>	<b>970.48</b>	<b>1852.10</b>
	<b><u>Civil Works</u></b>				
	MP-I				
	MP-I X Works	13.08	21.70	57.00	9.96
	<b>Total Civil works</b>	<b>13.08</b>	<b>21.70</b>	<b>57.00</b>	<b>9.96</b>
	<b>Grand Total Works of Capital Nature</b>	<b>595.76</b>	<b>1708.95</b>	<b>1027.48</b>	<b>1862.06</b>
<b>B.</b>	<b><u>Normal Operation &amp; Maintenance Works</u></b>				
	MP-I Generation	29.98	28.80	26.69	29.80
	MP-II Transmission				
	MP-IX Works	37.46	56.73	45.94	64.33
	MP-XIV - Losses Written off		0.50	0.50	0.50
	Net Debit to Suspense	111.06	24.00	97.20	25.00
	Deduct R & R				
	<b>Total Operation &amp; Maintenance Works</b>	<b>178.50</b>	<b>110.03</b>	<b>170.33</b>	<b>119.63</b>
	<b>Grand Total Transmission Works Capital &amp; Operation</b>	<b>774.26</b>	<b>1818.98</b>	<b>1197.81</b>	<b>1981.69</b>
	<b><u>Works</u></b>				
	Deduct Share Debitable to Irr. Wing @	76.5 %	592.31	1391.52	916.32
	Balance works chargeable to Power Wing		181.95	427.46	281.49
					465.70
	PSPCL	51.80 %	39.11	91.89	60.51
	HVPNL	37.5 %	28.32	66.54	43.82
	RVPNL	58.50 %	106.44	250.06	164.67
	HPSEBL	7.19 %	5.43	12.76	8.40
	UT, Chandigarh	3.50 %	2.64	6.21	4.09
					6.76
	<b><u>Establishment</u></b>				
	MP-I Generation		1241.62	1491.30	1657.36
	MP-IX		659.73	854.69	813.87
	MP-II Transmission		1.43		
	CO-I		140.59	146.33	199.23
	<b>Total Establishment Unit No.2</b>		<b>2043.37</b>	<b>2492.32</b>	<b>2670.46</b>
	Deduct Share Debitable to Irr. Wing @	76.5 %	1563.18	1906.62	2042.90
	Balance works chargeable to Power Wing		480.19	585.70	627.56
					637.23
	<b>Total Gross Works Unit No.2 Pong Power Plant</b>		<b>774.26</b>	<b>1818.98</b>	<b>1197.81</b>
	<b>Total Gross Establishment Unit No.2</b>		<b>2043.37</b>	<b>2492.32</b>	<b>2670.46</b>
					2711.63

<u>Gross Total Works &amp; Establishment</u>		2817.63	4311.30	3868.27	4693.32
Less Debitable to Irrigation Wing	76.5 %	2155.49	3298.14	2959.23	3590.39
@					
Balance works chargeable to Power Wing		662.14	1013.16	909.04	1102.93
Add Share Transferred From Irr. Wing		2101.28	2465.15	2559.52	2693.13
Total Unit No.2 Works & Establishment		2763.42	3478.31	3468.56	3796.06

Shares between the Partner State Elec.Boards.

PSPCL	51.80 %	594.05	747.73	745.64	816.04
HVPNL	37.5 %	430.17	541.46	539.94	590.92
RVPNL	58.50 %	1616.60	2034.81	2029.11	2220.70
HPSEBL	7.19 %	82.46	103.79	103.50	113.27
UT, Chandigarh	3.50 %	40.14	50.52	50.38	55.14

**Major Head - 280105 Beas Transmission Lines (BTL)**

**A. Capital Nature of Work Chargeable to Revenue**

<u>Electrical works</u>					
MP-II Transmission		523.44	1782.93	1521.40	1518.05
MP-I X Works		10.84	42.35	80.69	41.99
Total Electrical works		534.28	1825.28	1602.09	1560.04
<u>Civil Works</u>					
MP-II Transmission					
MP-I X Works		0.69	26.00	38.72	60.41
Total Civil works		0.69	26.00	38.72	60.41
<u>Grand Total Works of Capital Nature</u>		534.97	1851.28	1640.81	1620.45

**B. Normal Operation &**

<u>Maintenance Works</u>					
MP-II Transmission		65.26	139.29	423.23	418.98
MP-IX Works		82.54	199.11	106.18	239.84
MP-XIV - Losses Written off					
Net Debit to Suspense		-49.18	51.20	25.19	6.11
Deduct R & R					
Total Operation & Maintenance Works		98.62	389.60	554.60	664.93
<u>Grand Total Transmission Works Capital &amp; Operation Works</u>		633.59	2240.88	2195.41	2285.38

Shares between the Partner State Elec.Boards.

P.S.P.C.L.	28.7 %	138.64	490.41	480.46	500.15
H.V.P.N.L.	60.6 %	292.55	1034.60	1013.61	1055.15
R.V.P.N.L.	23.80 %	150.79	533.33	522.51	543.92
H.P.S.E.B.L	7.19 %	34.71	122.77	120.28	125.21
U.T., CHD	3.50 %	16.90	59.76	58.55	60.95

**Establishment**

<u>MP-II - Transmission</u>		4119.62	4279.12	4227.43	4509.78
<u>MP-I X General Establishment</u>		1187.75	1729.00	1667.96	1771.21
<u>GA5</u>		24.57			
<u>CO1</u>		0.16			
Total Establishment BTL		5332.10	6008.12	5895.39	6280.99

Shares between the Partner State Elec.Boards.

P.S.P.C.L.	28.7 %	1166.71	1314.86	1290.19	1374.57
H.V.P.N.L.	60.6 %	2462.01	2773.93	2721.88	2899.90
R.V.P.N.L.	23.80 %	1269.04	1429.93	1403.10	1494.88
H.P.S.E.B.L	7.19 %	292.13	329.17	323.00	344.12
UT, Chandigarh	3.50 %	142.21	160.24	157.23	167.51

Gross Total BTL Works & Establishment		5965.69	8249.00	8090.80	8566.37
---------------------------------------	--	---------	---------	---------	---------

Shares between the Partner State Elec.Boards.

P.S.P.C.L.	28.7 %	1305.35	1805.27	1770.65	1874.72
H.V.P.N.L.	60.6 %	2754.56	3808.53	3735.49	3955.05

R.V.P.N.L.	23.80 %	1419.83	1963.26	1925.61	2038.80
H.P.S.E.B.L	7.19 %	326.84	451.94	443.28	469.33
UT, Chandigarh	3.50 %	159.11	220.00	215.78	228.46

**Total Gross Beas Project Works**

Unit No. 1 BSL	2741.80	2731.66	3182.57	3017.36
Unit No. 2 Pong Power Plant	774.26	1818.98	1197.81	1981.69
Beas Transmission Lines	633.59	2240.88	2195.41	2285.38
Total Works Beas Project	4149.65	6791.52	6575.79	7284.43

**Total Gross Establishment**

Unit No. 1 BSL	3378.40	3472.13	3477.34	3370.13
Unit No. 2 Pong Power Plant	2043.37	2492.32	2670.46	2711.63
Beas Transmission Lines	5332.10	6008.12	5895.39	6280.99
Total Establishment Beas Project	10753.87	11972.57	12043.19	12362.75

**Grand Total Gross Works & Establishment Beas**

Deduct Share Debitable to Irrigation Wing	14903.52	18764.09	18618.98	19647.18
Balance Debitable To Power Wing	2522.70	3670.37	3358.82	3973.64
	12380.82	15093.72	15260.16	15673.54

**Add Share Transferred From Irrigation Wing**

Grand Total Beas Project Chargeable to Power Wing	14647.97	15871.71	16609.20	17217.97
	27028.79	30965.43	31869.36	32891.51

**Shares between the Partner State Elec.Boards.**

P.S.P.C.L.	9482.79	10525.28	10932.75	11198.01
H.V.P.N.L.	8676.10	10122.97	10370.05	10706.33
R.V.P.N.L.	6696.37	7845.69	8016.72	8365.32
H.P.S.E.B.L	1461.90	1662.31	1715.01	1763.43
U.T., Chandigarh	711.64	809.19	834.84	858.41

*Handwritten signature/initials*

*Handwritten mark*

**Abstract of Budget Estimates of Establishment of Power Wing 'Beas Project'.**

Sr. No.	Detailed Head/ Object Heads of Accounts	CODE	Actual Expend. 2012-13	Original Budge Est. 2013-14	Revised Budget Est. 2013-14	Budget Estimates 2014-15
(₹ in lacs)						
1	Salaries of Regular/WC Emp.	251	7404.80	8752.51	8838.37	8745.87
2	Empl. On Contract basis	252	53.44	52.64	114.29	103.01
3	Conveyance Allowance	253	72.09	79.70	80.59	86.81
4	Wages of Daily Rated Emplys.	255	0.00	2.15	0.71	1.00
5	TA.	257	72.24	99.20	96.26	95.34
6	LTC.	258	4.36	15.30	24.89	25.06
7	Pay of Drivers.	259	27.58	38.76	33.50	37.00
8	Computer.	260	1.86	1.24	2.90	1.50
9	Rent.	261	0.27	0.11	0.20	0.20
10	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
11	Insurance	263	0.11	0.08	0.12	0.12
12	Dispensaries	264	0.07	0.42	0.23	0.25
13	Medical charges.	266	59.12	81.23	69.09	76.85
14	Legal Services.	267	0.79	2.18	1.75	1.61
15	Printing & Stationery.	269	6.01	7.79	11.75	11.66
16	Postage & Telegram.	270	1.47	2.42	2.68	2.64
17	Telephone & Internet.	271	10.30	10.62	10.91	11.23
18	Electricity & Water.	272	0.80	1.71	1.52	1.90
19	Books & Periodical.	273	0.17	0.18	0.18	0.25
20	Advertisement.	274	0.00	1.00	1.19	1.24
21	Hot & Cold Weather charges	275	0.47	0.67	0.42	0.81
22	Liveries.	276	7.78	7.60	8.97	8.55
23	Bank Collection charges.	277	0.00	0.00	0.00	0.00
24	Furniture.	278	0.28	0.40	2.62	2.82
25	Typewriters & Photostat Mach.	279	1.44	2.69	4.94	4.38
26	Misc. Office Expenses.	280	24.37	28.60	40.59	41.31
27	Material & Supply of Hospital.	281	0.00	0.00	0.00	0.00
28	Medicine.	283	0.05	0.37	0.10	0.12
29	Sports Activities.	286	0.06	0.53	0.93	0.87
30	Training & Seminars.	288	3.33	10.98	8.11	7.23
31	Entertainment catering etc.	289	0.09	0.05	0.10	0.05
32	Stipend	300	6.67	5.28	7.04	5.98
33	Scholarship	301	1.25	3.46	3.25	4.06
34	Pension.	302	1235.13	1039.66	1225.54	1287.80
35	Commutation of Pension.	303	420.56	406.31	336.26	453.63
36	EBA.	304	0.00	0.00	0.00	0.00
37	Gratuity & DCRG.	305	672.26	667.53	560.10	684.88
38	Leave Encashment.	307	499.64	439.15	351.08	468.78
39	Security Staff.	308	92.63	108.24	100.15	85.62
40	Incentive to Partner States.	310	134.30	100.00	100.00	100.00
41	Awards & Prizes.	312	3.48	1.81	1.86	2.32
42	HBA.	313	-65.40	0.00	0.00	0.00
43	Conveyance/Vehicles advance	314	0.00	0.00	0.00	0.00
	<b>Total</b>		<b>10753.87</b>	<b>11972.57</b>	<b>12043.19</b>	<b>12362.75</b>

*[Handwritten Signature]*



**List of Major new/ continued works of Capital nature chargeable to Revenue Accounts under Major Head 2801-01 Power Hydel Generation provided in the budget estimates for the year 2013-14 (Revised) & 2014-15 (Proposed) under S.E./ Bh. P.H.s Circle, BBMB (PW), Nangal under Generation Administration.**

(Rs. In lacs)						
Sr. No.	Name of Work	Est. cost	Sanction No. & Date	Original Budget Estimates 2013-14	Revised Budget Estimate 2013-14	Budget Estimate 2014-15
1	RM&U of Bhakra PP-I	48600.00	CEG-62/2008-09	15000.00	7500.00	12500.00
2	Evacuation Power from Unit No.1 of BH PP-I to 220 KV/S yard Bh. PP-II	Under Process	CEG-20/2009-10	145.00	5.00	200.00
3	Prov. 1 No. Diesel Generating & Prov. 2 No. submersible pumps of Cap.10000 Ltr. Per min. at Bh.PP-I	180.00	A&A No.1118 dt.11.5.12	85.00	20.00	52.00
4	R&R of control Air Conditioning system of 42 Ton capacity with 72 ton capacity of Bh. PP-I	65.20	A&A No.10651-52 dt.3.4.13	20.00	60.00	2.00
5	R&R of existing 6 Nos. water pressure filters with new filters of latest technology	54.00	A&A No.813/B-2251 dt.26.4.13	1.00	0.10	53.90
6	R&R of existing important 11KV, 3.3 KV & 0.415KV Power cables with XLPE&PVC Power cables at various inter connections of AUX Power supply system at Bh.PP-I	98.25	CEG-22/2013-14	1.00	45.00	30.00
7	Renovation & modernization of existing OTIS elevator machine No.267497 installed at Bh. PP-I	Under Process	CEG-18/2011-12	5.00	30.00	0.10
8	Prov. 1 No. Diesel Generating set of 500 KVA 0.4 KV alongwith allied equipment control panel etc. PP-II & Prov. 2 No. submersible pumps of Cap.10000 Ltr. Per min. at Bh.PP-II	180.00	A&A No.1118 dt.11.5.12	65.00	20.00	41.00
9	Prov. Of 2 set of brake disk segment for units of Bh. Right Bank Power House.	115.34	A&A No.1118 dt.11.5.12	100.00	1.00	114.34
10	R&R of existing Static Excitation system (SES) of Unit No.9&10 of Bh. Right Bank Unit	300.00	A&A No.22601-03 dt.17.8.09	1.00	30.00	0.00

11	Capital Mtc. of Unit No.9 of Bh. PP-II	1723.00	A&A No.1118 dt.11.5.12	450.00	1700.00	23.00
12	Capital Mtc. of Unit No.6 of Bh. PP-II	1200.00	A&A No.813/B-2251 dt.26.4.13	180.00	1.00	981.00
13	R&R of 35 Nos. current t/f (CTs) of Units & feeders and 220 KV switchyard Bh. Right Bank.	212.00	A&A No.1118 dt.11.5.12	55.00	1.00	150.00
14	Prov. Numerical generator protection scheme for all units of Bh. Right Bank Power House.	90.03	CEG-41/2012-13	70.00	1.00	70.00
15	Prov. 19 Nos. 220 KV PTs in respect of 4 Nos. outgoing feeders and 3 Nos. Bus-sections at 220 KV Switchyard Bh. PP-II	65.00	A&A No.813/B-2251 dt.26.4.13	60.00	1.00	57.00
16	R&R of old Non FRLS Pilca control and power cables with FRLS, PVC insulated cables running in cable gallery from Bh. Right Bank Power House to switchyard.	216.00	Under Process	0.00	0.00	150.00
17	Improvement of ventilation system at Bh. PP-II	Under Process	A&A No.1118 dt.11.5.12	9.00	0.10	45.58
18	Replacement of vehicles against surveyed off vehicle in transport yard at Nangal.	71.47	CEG-30/2013-14	48.00	36.00	5.00
19	Installation of CCTV camera in PH for surveillance.	35.80	CEG-36/2013-14	0.00	0.80	35.00
20	Const. of new shed for storage on iron scrap with concrete floor at Nangal.	29.36	A&A No.1736/B-2251 dt.28.7.11	32.50	29.00	0.36
21	Renov. Of EB colony prov. Glazed tiles in Bathrooms of various type of quarters in EB colony at Nangal in view of Golden Jubilee celebration.	74.58	A&A No.1118/B-2251 dt.11.5.12	65.00	1.00	50.00
22	Renov. Of Office Complex of BBMB PW at Nangal in view of Golden Jubilee Celebration	49.59	A&A No.1118/B-2251 dt.11.5.12	40.00	43.00	0.72
23	Renov. Of Rest House carrying out renovation works in Shakti, Vidyut Sadan in view of Golden Jubilee celebration	69.92	A&A No.1118/B-2251 dt.11.5.12	50.00	60.00	0.92

24	Complete renov. Of 60 Nos. D-type quarters by converting in to 30 No. C-type quarters in EB colony at Nangal.	75.00	A&A No.813/B- 2251 dt.26.4.13	5.00	1.00	50.00
25	Replacement of existing cement concrete floors of court yards in A,B,C&D type of qtrs. In EB colony at Nangal (Golden Jubilee)	39.20	A&A No.1118/B- 2251 dt.11.5.12	29.20	1.00	38.20
26	Proc. Of Modular Furniture under the Admn. of CE/ Generation	95.00	A&A No.1118 dt.11.5.12	80.00	10.00	45.00

*Handwritten signature*

List of Major new/ continued works of Capital Nature chargeable to Revenue Accounts under Major Head 2801 Powr Hydel Generation provided in the Revised for the year 2013-14 and Budget estimate for the year 2014-15 in rest of R.E. Ganguwal & Sr. XEN./O&M Divn., Ganguwal under the Dy. CE/ CPHs Circle, BBMB (PW), Nangal.

(Rs. In lacs)						
Sr. No.	Name of Work	Est. cost	Sanction No. & Date	Original Budget Estimate 2013-14	Revised Budget Estimates 2013-14	Budget Estimate 2014-15
1	To provide on line vibration data acquisition moitoring & processing system complete with allied accessories on the all units at Ganguwal & Kotla Power House.	50.00	Under Process	0.00	0.00	50.00
2	Replacement of BHEL make runner with new runner of unit No.2 at Ganguwal Power House.	700.00	Under Process	0.00	60.00	50.00
3	Replacement of BHEL make runner with new runner of unit No.3 at Ganguwal Power House.	700.00	Under Process	0.00	60.00	50.00
4	R&R of 4 Nos. LT control panels alongwith LT breakers & remote indication at Kotla PH	55.50	A&A No.1118/B-2251/Action Plan/Gen./2P dt.11.5.12	5.00	51.00	2.00
5	R&R of existing 132/33, 16MVA TFR(T-3) with new one at Ganguwal.	200.00	A&A No.1118/B-2251/ Action Plan/Gen/2P dt.11.5.12	140.00	2.00	138.00
6	Prov. 11/132 KV,34.0/32.5 MVA three phase 50HZ water cooled Generator T/F complete with all fitting accessories & fire protection system at Kotla PH	324.00	A&A No.1118/B-2251/Action Plan/Gen/2P dt.11.5.12	230.00	292.00	9.00
7	R&R of existing C&R panel having protection relays of BHEL units with numerical protection relays at Ganguwal & Kotla PHs	111.00	A&A No.813/B-2251/Action Plan/Gen/2P dt.26.4.13	2.00	1.00	100.00
8	Carrying out underwater videography, cutting, welding & other allied works on the guide track of draft tube gates of Unit No.3 at Kotla PH	48.00	A&A No.26713-17/B-5/Bh./2P dt.8.8.13	0.00	48.00	0.00

9	Carrying out underwater videography of all the draft tube gates (3 Nos. with each unit) of the remaining 5 No. Units at Ganguwal & Kotla Power House.	Under Process	Under Process	0.00	45.00	0.00
10	Carrying of under water repairs/ replacement of the damaged/ deteriorated guide/ track of all the draft tube gates (after the videography of each unit) of 5 Nos. Unit 3 Nos. at Ganguwal & 2 Nos. at Kotla Power House.	500.00	Under Process	0.00	0.00	250.00
11	Carrying of under water repairs/ replacement of the damaged/ deteriorated guide/ track of all the draft tube gates after the videography in respect of Unit No.3 Kotla Power House.	100.00	Under Process	0.00	100.00	0.00
12	Carrying out repair/ replacement of under water 6 Nos. guide track meant for transrack gates of unit No.1 at forebay of Ganguwal Power House.	80.00	Under Process	0.00	70.00	10.00
13	Repl. of Static/ Electromechanical relay with numerical relay having GPS time synchronisation and DR facility on 220 KV feeders at 220 KV MISS, Ganguwal.	171.00	Under Process	0.00	0.00	150.00
14	Repl. of 18 No. 245 KV CTs installed on 220 KV Ckts. At 220 KV MISS BBMB, Ganguwal	74.00	Under Process	0.00	0.00	60.00
15	Repl. of 4 Nos. 245 KV, SF-6 breakers with new spring charged type at 220 KV, MISS, Ganguwal.	81.00	Under Process	0.00	0.00	60.00
16	Providing of spares of Digital Governor of Unit No.1 Ganguwal & Kotla Power House.	400.00	Under process	97.00	1.00	100.00
17	Proc. Of 11/0.33 KV, 3 phase 420 KVA dry type spare t/f for Static Excitation system with Hitachi units at Ganguwal & Kotla PHs.	80.00	Under Process	0.00	0.00	80.00

71

97

List of Major Capital Nature Work under Beas Project provided in the Revised Budget Estimates for the year 2013-14 and Budget Estimate for the year 2014-15 in respect of Dehar Power House under S.E./DPH Circle, BBMB (PW), Slapper.						
(Rs. In lacs)						
Sr. No.	Name of Work	Est. Cost	Sanction No. & date	Original Budget Estimate 2013-14	Revised Budget Estimate 2013-14	Budget Estimate 2014-15
1	Providing fire barriers in cable tunnels, cable spreading area, fire doors at exist & entry of cable tunnels/ cable tunnels at DPH.	Under Process	A&A 1118 dt.24.5.12 Est. U/S	28.00	1.00	53.00
2	Prov.1 No.Generator Shaft with integral thrust face (runner disc)	671.23	CEG-24/ 2011-12	50.00	50.00	100.00
3	Est. for supply supervision of installation & commissioning of on line vibration monitoring system for 6 No. Dehar Machine at DPH BBMB PW Slapper.	43.29	CEG-81/ 2012-13	13.00	43.29	0.00
4	Prov. 4 MVA 132/11 KV t/f & associated equipment by having 132 KV bay at Dehar Switch yard for a dependable & reliable Power supply to feed the Auxiliaries of DPH S/yard & BFV chamber.	168.92	A&A 1616 dt.24.8.05	40.00	40.00	0.00
5	Prov. 3-phase automatic relay test set for DPH Slapper.	40.00	A&A No.813 dt.26.4.13	38.00	25.00	0.00
6	Replacement of static excitation system of Dehar Unit No.5&6 at DPH	Under Process	CEG-60/ 12-13	50.00	245.00	0.00
7	Air conditioning of TG Pannel area at DPH	Under Process	A&A No.1118 dt.24.5.12	18.00	1.00	110.00
8	Capital Mtc. of Unit No.6 during 2013-14	494.00	CEG-85/ 2012-13	130.00	186.08	0.00
9	Capital Mtc. of Dehar Unit No.2 during 2013-14	680.00	A&A No.813 dt.26.4.13	469.00	615.00	15.00
10	Capital Mtc. of Dehar Unit No.3 during 2013-14	660.00	A&A No.813 dt.26.4.13	429.00	200.00	340.00
11	Over hauling of BFV No.2 during the year 2013-14	175.00	A&A No.813 dt.26.4.13	123.21	98.00	65.00
12	Capital Mtc. of rotary valve controlling Dehar Unit No.3&4 during 2013-14	450.00	A&A No.813 dt.26.4.13	279.00	95.00	63.00
13	Capital Mtc. of Dehar Unit No.5 during 2014-15	715.00	Under Process	0.00	0.00	550.00
14	Capital Mtc. of Dehar Unit No.4 during 2014-15	715.00	Under Process	0.00	0.00	650.00
15	Capital Mtc. of BFV No.3 during 2014-15	190.00	Under Process	0.00	0.00	120.00

*PK*

98

16	Requisitioning the services of Engineer & Technical Personnel from M/s BHEL and material required to rectify the fault in stator winding & core of Dehar Unit No.6 due fault occurred on dt.8.8.13	363.00	Under Process	0.00	275.00	0.00
17	Prov. & laying water treatment pn the roof of Dehar Power House.	49.70	Under Process	0.00	0.00	40.00
18	Replacement of emulsifier system with nitrogen injection fire protection & extinguishing system (NIFPES) installed in 40/36/4 MVA, 220/132/11 KV t/f T-7 & T-8 and their respective 4 MVA 11/11 KV	Under Process	A&A No.1843 dt.13.8.09	25.00	34.00	0.00
19	Replacement of 5 Nos. machine breakers at Dehar S/yard BBMB (PW), Slapper.	147.81	CEG-44/2010-11	85.00	2.00	135.00
20	Replacement of 6 Nos. ABCBat DPH Slapper.	227.00	A&A No.1736 dt.28.7.11	143.00	2.00	225.00
21	Annual running of buses for O&M staff, school/college students & mini bus for AE/AEE at Slapper during 13-14	Under Process	SE/DPH est-3 2013-14	38.00	123.57	37.00
22	Proc. Of BHEL spares for rotary valves, turbines & generator spares.	237.00	AT No.542 dt.16.9.10	0.00	80.00	0.00
23	Proc. Of 1 set of HVOF coated & 3 sets without HVOF coated top & bottom labyrinth alongwith fasteners for DPH	315.00	PO No.557 dt.20.5.11	0.00	107.00	0.00
24	Proc. Of BHEL spares for rotary valves, Turbines & generator spares for all 6 No. machines at DPH.	424.67	AT No.606 dt.20.3.13	140.00	424.67	0.00
25	Proc. of Governors spare for newly commissioned Micro Processor basis digital electro hydro Governors.	Under Process	LOI dt.21.6.13	145.00	170.00	0.00
26	Proc. of spares for 4 sets of mycro processor based Automatic digital voltage regulator type static excitation equipments at DPH Slapper.	Under Process				
27	Proc. Of 4 Nos. Shaft Sleeves for Dehar Machines	65.00	Under Suspense Head	0.00	0.50	32.00
28	Proc. Of BHEL spares	125.00	Under Process	0.00	0.00	125.00

List of Major works of capital nature chargeable to Revenue Accounts Heading under Major Head 2801 Power Hydel Generation and 2805 Transmission distribution expenditure accounts heading provided in the Budget Estimate for the year 2014-15 and Revised Budget Estimates for the year 2013-14 in respect of RE/PPH Division (PW) Talwara under Pong Power House Circle, BBMB (PW), Talwara.

(Rs. In lacs)						
Sr. No.	Name of Work	Est. Cost	Sanction No. & Date	Original Budget Estimates 2013-14	Revised Budget Estimates 2013-14	Budget Estimates 2014-15
1	Prov. 1 No. additional 500 KVA 0.4 KV DG set alongwith allied equipment, control panel etc. & providing 2 No. submersible de-watering pumps of 10,000 LPM capacity each at PPH, Talwara.	110.00	RA&A No.1736/B/2251/AP/Gen./2P dt.28.7.11	40.00	20.00	50.00
2	Overhauling of 5 No. 220 KV, SF-6 gas circuit breaker type 200 SFM-40A of M/s CGL make installed at PPH Talwara.	30.63	A&A No.31815-16/B-180/2P dt.4.11.10	7.00	23.00	2.00
3	Proc. Of 1 No. Circuit breaker Analyzer alongwith Dynamic contract Resistance Meter at PPH Talwara.	Under Process	A&A No.1736/B/2251/AP/Gen./2P dt.28.7.11	1.00	41.00	0.00
4	Replacement of 2 Nos. main stator Air Coolers of Unit No.2 & 4 with new ones at PPH Talwara.	Under Process	A&A No.1736/B/2251/AP/Gen./2P dt.28.7.11	1.00	38.00	0.00
5	Replacement of existing Generator Protection of Unit No.I, II & IV to VI with Numerical Generator Protection having built in disturbance recorder and event logger at PPH Talwara.	100.00	RA&A No. 1118/B-2251/AP/Gen./2P dt.11.5.12	99.00	1.00	40.00
6	Prov. 1 No. digital/ micro processor based Automatic Relay testing kit for testing the Numeric distance protection scheme (MICOM relay), propped Numeric Generator Protection scheme & electromechanically relay at PPH Talwara.	35.00	A&A No.1736/B/2251/AP/Gen./2P dt.28.7.11	1.00	25.00	0.00

3A

100



7	Proc. Of 2 No. 3-phase 75 MVA, 11/220 KV outdoor type oil immersed water cooled Generator T/f for Pong Power House, Talwara.	1500.00	A&A No.1118/B- 2251/AP/Gen 2P dt.11.5.12	1200.00	445.83	445.83
8	Replacement of 2 Nos. 245 KV SF-6 Gas Circruit Breakers rating 31.50 Amp. Type 3AP IFI make Siemens in respect of Unit No.5&6 with SF-6 Gas Circuit	30.00	A&A No.1118/B- 2251/AP/Gen 2P dt.11.5.12	25.00	5.00	25.00
9	Proc. Of 2 Nos. 75 MVA 11/220 KV Generator t/f for PPH Talwara.	1600.00	A&A No.813/B/ 2251/AP/Gen./ 2P dt.26.4.13	10.00	1.00	800.00
10	Replacement of existing Electro Hydraulic Governor G-25 & analogue type electronic cabinet with latest microprocessor based Digital type Electro Hydraulic Governor system of Unit No.1 to 6 at PPH Talwara.	1300.00	A&A No.813/B/ 2251/AP/Gen./ 2P dt.26.4.13	100.00	1.00	100.00
11	Capital Mtc. of PPH Unit No.3	Under Process	A&A No.813/B/ 2251/AP/Gen./ 2P dt.26.4.13	10.00	200.00	200.00
12	Proc. Of 18 Nos. 220 KV, CTs installed at Pong switchyard Talwara.	55.00	A&A No.813/B/ 2251/AP/Gen./ 2P dt.26.4.13	55.00	0.00	35.00
13	Modernization of 3 Nos. OTIS make Elevators installed at penstock emergency gate shaft of PPH.	99.50	Under Process	0.00	0.00	40.00
14	Replacement of existing electromagnetic protection panel with panel having numerical relay of 1) 40MVA,220/66 KV trf. 2) 4 MVA 66/11 KV t/f at 220 KV switchyard of PPH	25.00	Under Process	0.00	0.00	25.00
15	Refund of Rs.5720013/- out of 1.64 crores deposited by HPSEB in 1993-94 for provision of 20 MVA Power System in industrial Area Sansarpur terrace Distt. Kangra HP	100.64	Under Process	0.00	57.00	0.00
16	Proc. Of EHV Grade New T/f oil (Nepthanic Base)	35.00	Under Process	0.00	30.00	5.00

24

101

List of Major Works & Mtc. chargeable to Revenue Account Under Major Head 2801-05 for the year 2013-14 (Revised) and for the year 2014-15 (Proposed) under Chief Engineer/ Transmission System for Bhakra Left, Bhakra Right and Beas Project.						
(Rs. In lacs)						
Sr. No	Name of Work	Est. Cost	Sanction No. & Date	Original Budget 2013-14	Revised Budget 2013-14	Proposed Budget 2014-15
1	Replacement of 14Nos 245KV Isolator and 7Nos line isolator with earth switch pneumatically operated with new motor operated type at 400 KV s/Stn. BBMB Panipat.	48.95	Included in Action Plan 2014-15.	0.00	0.00	48.95
2	Replacement of 20 Nos 33 KV Isolator and 6Nos line isolator with earth switch with new Isolator at 400 KV s/Stn. BBMB, Panipat.	30.25	Included in Action Plan 2014-15.	0.00	0.00	30.25
3	Proc. Of 71.66 MVAR reactor at 400 KV substation, Panipat for replacement of damaged reactor.	637.00	A&A No.994 dt.20.4.12	465.00	2.00	450.00
4	Replacement of 3 No. ABCBs with new SF 6 breaker at 220KV S/Stn.KKTRA.	45.46	NCW-57/2011-12	16.77	32.55	0.00
5	Replacement of old critical 0.3 Sq". goat conductor of R/Road Narela Ckt. Line I & 2	347.00	NCW-65/03-04	20.00	2.00	250.00
6	Replacement of conventional disc insulator with polymer insulators of 220 kV R/Road CKT I & II	76.94	NCW-37/10-11	25.00	5.00	71.94
7	Replacement of normal disc insulator with antifog disc insulator of 400 KV /120/160 KN, of Dehar- Bhiwani line.	307.22	NCW-70 / 2012-13	100.00	100.00	55.00
8	Replacement of normal disc insulator with disc insulator of 400 KV /120/160 KN of Dehar- Panipat line.	190.02	NCW-67 / 2012-13	100.00	80.00	50.00
9	Hot line washing of 400 KV & 220 KV yard equipments at 400 KV S/Stn., BBMB, Panipat.	Under Process	NCW/29/ 2013-14	25.00	34.00	18.36
10	Carrying out the Hot line washing of most critical towers of 400 KV Dehar- Panipat Line.	Under Process	Including in Action Plan	0.00	37.40	37.40
11	Replacement of Zebra conductor with Trantulla conductor of Bus I & II at 220KV Sub station,Hisar	44.21	A&A No.994 dt. 20.04.2012	5.00	5.00	31.00
12	Const. of A&B type Quarters in place of old quarters at 220 KV Sub-stn. Ballabgarh.	103.72	NCW-12/2013-14	8.00	2.00	60.00
13	Replacement of ACSR conductor 0.4 Sq inch of 220 KV Ballabgarh-BTPS D/C line under SDO TL Ballabgarh	400.00	A&A No. 1798 dt. 11.8.11	50.00	2.00	350.00

PK

14	Replacement of conventional type disc. Insulator with polymer insulator on left over suspension towers of 220KV B/Garh-Dadri & S/pur-Dadri lines.	132.00	A&A No.994 dt.20.04.2012	132.00	2.00	102.00
15	Replacement of damaged 16 MVA 66/33 KV T/f with 16 MVA 66/33 KV t/f at 220 KV substation, Ballabgarh.	129.00	A&A No.1798 dt.11.8.11	50.00	121.00	0.00
16	Replacement of damaged 166.67 MVA 400/220/33 KV Single Phase Transformer T-2 (to be kept as spare) at 400 KV Sub Station Bhiwani	700.00	A&A vide spl secy No. 4820-21/B-5/Bhiwani dt. 23.06.11	700.00	615.00	0.00
17	Replacmenet of 400 KV SF-6 Brekaer (X-3) BHEL make controlling 400 KV Bus Reactor at 400 KV sub Station Bhiwani	52.00	A&A No. 1798 dt. 11.8.11	5.00	2.00	45.00
18	Replacment of Emulsifier System with NIFPES for 500 MVA 400/220 KV ICT Bank and 2 No. 50 MVAR Reactors at 400 KV Sub Station Bhiwani	77.00	A&A No. 1798 dt. 11.8.11	10.00	70.00	7.00
19	Overhauling of 8 Nos. 245KV CGL make SF-6 gas ckt. Breaker under SSE/220KV BBMB, Bhiwani.	80.60	A&A . No.814/B-2251 dt. 26.04.2013.	0.00	20.00	60.60
20	Overhauling of 2 Nos. 245 KV & 3 Nos. 145 KV ABB make SF-6 ckt. Breaker at 400 KV substation, BBMB, Bhiwani & 7 Nos. ABB make 245 KV SF-6 ckt. Breakers at 220 KV ch. Dadri	99.84	Action Plan 2014-15	0.00	0.00	50.00
21	Estimate for replacement of RCC slab of category B (5 Nos.) & category-C (6 Nos.) type quarters at 220KV at Ch.Dadri.	76.46	Action Plan 2014-15 submitted	0.00	0.00	40.00
22	Replacement of 28 Nos 245 KV pneumatic controlled isolators with motorised controlled at 220 KV sub station Dadri	69.00	A&A NO. 2082 dt. 09.08.10	10.00	69.00	0.00
23	Replacement of 132/11KV 8/4/4 MVA T/F with new 132/11 4MVA Transformer at 220KV Sub Station, Dadri	86.00	A&A No. 994 dt. 20.04.12	5.00	1.00	85.00
24	Overhauling of 1 No. CGL make 245KV SF-6 Ckt. Breaker controlling 220KV Mohindergarh ckt. and 3 Nos. Alstom/CGL make 145KV SF-6 ckt. Breaker controlling 220/132KV 100MVA T/F T-1,T-2 & 132/33/11KV, 8/4/4 T/F at 220KV GSS, BBMB, Ch.Dadri	36.79	Action Plan 2014-15 submitted.	0.00	0.00	36.79
25	Replacement of 2 Nos. 45/60 MVA 220/66KV MITSUBISHI make transformers at 220 KV S/Stn., Dhulkote.	1000.00	Action Plan 2014-15	0.00	0.00	500.00

26	Replacement of 1 no. 20 MVA 66/33 KV Savoisienue make transformer at 220 KV S/Stn., Dhulkote.	150.00	Action Plan 2014-15	0.00	0.00	125.00
27	Estimate for replacement of 10 No. 220 KV Bus Isolators, 2 No. 220 KV line isolators at 220 KV S/S Sangrur	30.00	No. 2082/B-2251/Action Plan/TS/2P dated 9-8-10	5.00	30.00	0.00
28	Est. for replacement of 10 No. NGEF make 220 KV SF-6 breakers with new ones at 220 KV S/S, BBMB, Jalandhar.	132.00	NCW-72/12-13	60.00	26.00	0.00
29	Estimate for replacement of 11 No. 220 KV, 6 No. 132 KV & 10 No. 66 KV isolators at Jalandhar sub station.	54.00	No 2082/B-2251/Action Plan/TS/2P dated 9-8-10	30.00	28.00	26.00
30	Estimate for providing 220 KV Bus Bar Protection at 220 KV Sub Station BBMB Sangrur	32.00	No. 814/B-2251/Action Plan/TS/2P dated 26-4-13	10.00	2.00	30.00
31	Estimate for replacement of existing 220 KV Bus Bar protection scheme with new microprocessor controlled scheme at 220 KV sub station BBMB Jalandhar	89.90	Action Plan 2014-15	0.00	0.00	89.90
32	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Jalandhar.	42.00	Action Plan 2014-15	0.00	0.00	41.50
33	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Sangrur.	42.00	No 716 -21 dt 17.1.13	0.00	0.00	41.50
34	Replacement of existing static bus bar / L.B.B protection scheme at 220 KV s/stn. BBMB, Jamalpur with at least numerical protection scheme as per recommendation of protection audit.	72.00	Under Process	0.00	5.00	67.00
35	Providing 6 Nos. 220 KV PTs controlling 220 KV Bhakra- Jamalpur Ckt. I & II for 220 KV sub-station BBMB. Jamalpur	30.00	Under Process	0.00	0.00	30.00
36	Providing 4 Nos. Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Jamalpur.	84.00	Action Plan 2014-15	0.00	0.00	84.00
37	Re-conductoring of 220 KV Bhakra-Jamalpur DC line with AAAC-465 mm Sq. conductor1) Hardware fitting2) 160 KV 90KN Normal & 90KN Anti fog insulators3) 535 Kms AAAC-465 mm Sq. conductor.4) Addl. Disc insulator to cover 100% replacement.5) Erection of 3 No. towers at Bh.6) labour charges for carrying out the re-conductoring work.	995.78	A&A No.2514/B-5/JMP/5/2P dt.28.12.06	25.50	25.50	175.00

**Major Head 4700 Capital Outlay on Major Irrigation (BBMB Portion)**

Head of account	Actual Expenditure for the year 2012-13	Original Budget Estimates for the Year 2013-14	Revised Budget Estimates for 2013-14	Budget Estimate for the year 2014-15
-----------------	--------------------------------------------------	---------------------------------------------------------	-----------------------------------------------	-----------------------------------------------

(₹In Lac)

**Bhakra**

Major works		0.11	0.11	0.11
Minor works				
Machinery & Equipment	-0.24	0.40	0.40	0.40
Losses written off		0.50	0.50	0.50
Total works	-0.24	1.01	1.01	1.01
Suspense				
Debit				
Stock	37.00			
Purchases				
P.W Misc.Advance	62.01			
Workshop Suspense	67.97			
Total debits	166.98			
Credit				
Stock	50.89			
Purchases	10.78	0.90	0.50	0.50
P.W Misc.Advance	64.85			
Workshop Suspense	67.97			
Total credits	194.49	0.90	0.50	0.50
Net debit to suspense	-27.51	-0.90	-0.50	-0.50
Deduct R & R on C/A	0.02	20.01	20.21	20.21
<u>total Unit no 1 Bhakra Dam</u>	<u>-27.77</u>	<u>-19.90</u>	<u>-19.70</u>	<u>-19.70</u>
Share between Partner State Govts				
Punjab	-14.12	-10.12	-10.02	-10.02
Haryana	-9.42	-6.75	-6.68	-6.68
Rajasthan	-4.23	-3.03	-3.00	-3.00

**Beas Project**

**Unit-II Pong Dam Tlw**

Major Works	57.76	131.00	131.00	131.00
Net Works Chargeable to Capital	57.76	131.00	131.00	131.00
losses written off				
Suspense	28.43			
Deduct R & R on C/A		2.00	2.00	2.00
Total	86.19	129.00	129.00	129.00
Deduct share debitable to Power wing	20.25	30.32	30.32	30.32
Balance chargeable to IB	65.94	98.68	98.68	98.68
Add share transferred from Power wing				
<u>Grand total Unit No 2</u>	<u>65.94</u>	<u>98.68</u>	<u>98.68</u>	<u>98.68</u>
Share between Partner State Govts				
Punjab	16.42	24.57	24.57	24.57
Haryana	10.95	16.38	16.38	16.38
Rajasthan	38.57	57.73	57.73	57.73

**Beas Project Unit-II**

**Grand Total**

	65.94	98.68	98.68	98.68
Share between Partner State Govts				
Punjab	16.42	24.57	24.57	24.57
Haryana	10.95	16.38	16.38	16.38
Rajasthan	38.57	57.73	57.73	57.73
Chargeable to Power Wing share from Irrigation wing	20.25	30.32	30.32	30.32

Grand total Unit No 2

	20.25	30.32	30.32	30.32
Share between Partner State Govts				
PSPCL	5.04	7.55	7.55	7.55
HVPNL	3.36	5.03	5.03	5.03
RVPNL	11.85	17.74	17.74	17.74



**B. Non Tax revenue III Economic Services 0700 Revenue Receipt**

Particulars	Actual Receipt for the year 2012-13	Budget Estimated for the year 2013-14	Revised Budget Estimate 2013-14	Budget Estimate for the year 2014-15
(₹In Lac)				

**Bhakra Dam unit No 1**

Gross receipt	336.85	534.58	554.62	565.62
Deduct Share creditable to Power wing	168.43	267.29	277.31	282.81
<u>Net irrigation receipt</u>	168.42	267.29	277.31	282.81
Share between Partner State Govts				
Punjab 60%	85.67	135.97	141.06	143.86
Haryana 40%	57.12	90.64	94.04	95.91
Rajasthan 15.22%	25.63	40.68	42.21	43.04

**Unit no 3 Nangal hydel Channel**

Gross receipts	-0.02	2.50	0.55	0.55
Deduct share creditable to Power Wing	-0.01	1.25	0.28	0.28
<u>Net Irrigation receipt</u>	-0.01	1.25	0.27	0.27
Share between Partner State Govts				
Punjab 60%	-0.01	0.61	0.13	0.13
Haryana 40%		0.40	0.09	0.09
Rajasthan 19.06%		0.24	0.05	0.05

**Total receipt Unit No 1 & 3**

Gross Receipt	336.83	537.08	555.17	566.17
Deduct share creditable to Power Wing	168.42	268.54	277.59	283.09
<u>Net Irrigation Receipt</u>	168.41	268.54	277.58	283.08
Share between Partner State Govts				
Punjab	85.66	136.58	141.19	143.99
Haryana	57.12	91.04	94.13	96.00
Rajasthan	25.63	40.92	42.26	43.09

Supply of raw water to DWSU	1126.70	600.00	500.00	600.00
-----------------------------	---------	--------	--------	--------

Share between Partner State Govts				
Punjab 60%	573.13	305.21	254.34	305.21
Haryana 40%	382.09	203.47	169.56	203.47
Rajasthan 15.22%	171.48	91.32	76.10	91.32

<b>Total Bhakra Dam Receipt</b>	1463.53	1137.08	1055.17	1166.17
Deduct share creditable to Power Wing	168.42	268.54	277.59	283.09
<u>Balance Irrigation receipt</u>	1295.11	868.54	777.58	883.08

Share between Partner State Govts				
Punjab	658.79	441.79	395.53	449.20
Haryana	439.21	294.51	263.69	299.47
Rajasthan	197.11	132.24	118.36	134.41

**Beas Project Revenue Receipt Irrigation Wing**

**Unit No 1 BSL**

Gross receipt	191.24	389.60	453.53	401.43
Deduct Share creditable to Power wing	179.77	366.22	426.32	377.34
Net irrigation receipt	11.47	23.38	27.21	24.09
Add share transfer from Power Wing	0.35	0.48	32.83	1.56
<u>Total receipt BSL Unit No1</u>	11.82	23.86	60.04	25.65

Share between Partner State Govts

Punjab	51%	6.03	12.17	30.62	13.08
Haryana	34%	4.02	8.11	20.41	8.72
Rajasthan	15%	1.77	3.58	9.01	3.85

**Unit no 2 Pong Power Plant, Talwara**

Gross receipts	19.78	432.60	418.05	432.60
Deduct share creditable to Power Wing	4.65	101.66	98.24	101.66
Net Irrigation receipt	15.13	330.94	319.81	330.94
Add share Transfer from Power wing	11.06	2.30	2.30	2.30
<b>Net Revenue Receipt Unit No2</b>	<b>26.19</b>	<b>333.24</b>	<b>322.11</b>	<b>333.24</b>

**Share between Partner State Govts**

Punjab	24.9%	6.52	82.97	80.21	82.97
Haryana	16.6%	4.35	55.32	53.47	55.32
Rajasthan	58.5%	15.32	194.95	188.43	194.95

**Total Beas Project receipt Unit No 1 & 2**

Gross Receipt	211.02	822.20	871.58	834.03
Deduct share creditable to Power Wing	184.42	467.88	524.56	479.00
Net irrigation Receipt	26.60	354.32	347.02	355.03
Add share Transfer From Power wing	11.41	2.78	35.13	3.86
<b>Total Beas Project receipt Unit No 1 &amp; 2</b>	<b>38.01</b>	<b>357.10</b>	<b>382.15</b>	<b>358.89</b>

**Share between Partner State Govts**

Punjab	12.55	95.14	110.83	96.05
Haryana	8.37	63.43	73.88	64.04
Rajasthan	17.09	198.53	197.44	198.80

**B. Non Tax revenue III Economic Services 0801 Revenue Receipt**

**Power Hydel Generation**

**Particulars**

Actual Receipt 2012-13	Budget Estimates 2013-14	RBE for the year 2012-13	Budget Estimates 2013-14
------------------------------	--------------------------------	--------------------------------	--------------------------------

**Revenue Receipt Power Wing Bhakra Complex**

Sale of Power	30703.20	28124.00	26994.00	28060.00
Other Receipt	800.92	73.00	593.00	73.00
Total Power Wing Receipt	31504.12	28197.00	27587.00	28133.00
Add share transfer from Irrigation wing	168.42	268.54	277.59	283.09
<b>Grand total Power Wing Receipt to be shared by all partner Elec.Boards</b>	<b>31672.54</b>	<b>28465.54</b>	<b>27864.59</b>	<b>28416.09</b>

**Share between Partner State Govts**

PSPCL	51.80%	13909.33	12500.94	12237.02	12479.22
HVPNL	37.51%	10072.18	9052.32	8861.21	9036.59
RVPNL	15.22%	4820.56	4332.46	4240.99	4324.93
HPSEBL	7.19%	1930.66	1735.17	1698.54	1732.15
UT, Chandigarh	3.5%	939.82	844.66	826.83	843.19

**Beas Project Power Wing**

**1. Dehar Power Plant**

Sale of power	20.17	16.00	68.83	30.00
Other Receipt	5.81	8.00	547.17	26.00
Total Receipt	25.98	24.00	616.00	56.00
Deduct Share debitible to Irrigation Wing	0.35	0.48	32.83	1.56
Balance Receipt	25.63	23.52	583.17	54.44
Add Share Transfer from Irrigation Wing	179.77	366.22	426.32	377.34
<b>Total Revenue Receipt Dehar Power House</b>	<b>205.40</b>	<b>389.74</b>	<b>1009.49</b>	<b>431.78</b>

**Share between Partner State Govts**

PSPCL	51.80%	85.12	161.51	418.33	178.93
HVPNL	37.51%	61.64	116.95	302.93	129.57
RVPNL	20.00%	41.08	77.95	201.90	86.36
HPSEBL	7.19%	11.81	22.42	58.07	24.84



UT, Chandigarh 3.5%	5.75	10.91	28.27	12.09
---------------------	------	-------	-------	-------

#### UNIT NO 2 PONG POWER PLANT

Sale of Power	17.23	17.00	17.00	17.00
Other Receipt	14.46	3.00	70.00	70.00
Total Receipt	31.69	20.00	87.00	87.00
Deduct Share debitable to Irrigation Wing	11.06	2.30	2.30	2.30
Balance Receipt	20.63	17.70	84.70	84.70
Add Share Transfer from Irrigation Wing	4.65	101.66	98.24	101.66
<u>Total Revenue Receipt Dehar Power House</u>	<u>25.28</u>	<u>119.36</u>	<u>182.94</u>	<u>186.36</u>

#### Share between Partner State Govts

PSPCL 51.80%	5.43	25.66	39.33	40.06
HVPNL 37.51%	3.93	18.58	28.48	29.01
RVPNL 58.50%	14.79	69.83	107.02	109.02
HPSEBL 7.19%	0.75	3.56	5.46	5.56
UT, Chandigarh 3.5%	0.37	1.73	2.66	2.71

#### Beas Transmission Lines

Total receipt	65.83	35.00	896.00	70.00
---------------	-------	-------	--------	-------

#### Share between Partner State Electricity Boards

PSPCL 28.72%	14.41	7.66	196.09	15.32
HVPNL 60.59%	30.39	16.16	413.68	32.32
RVPNL 23.80%	15.67	8.33	213.25	16.66
HPSEBL 7.19%	3.61	1.92	49.09	3.84
UT, Chandigarh. 3.5%	1.76	0.93	23.90	1.87

<u>Total Revenue Receipt Beas Project Power Wing</u>	<u>123.50</u>	<u>79.00</u>	<u>1599.00</u>	<u>213.00</u>
Deduct Share Creditable to Irrigation wing	11.41	2.78	35.13	3.86
Balance Receipt	112.09	76.22	1563.87	209.14
Add share transfer from Irrigation wing	184.42	467.88	524.56	479.00
<u>Total Revenue Receipt Beas Project Power Wing</u>	<u>296.51</u>	<u>544.10</u>	<u>2088.43</u>	<u>688.14</u>

#### Share between Partner State Electricity Boards

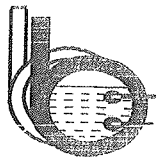
PSPCN	104.96	194.83	653.75	234.31
HVPNL	95.96	151.69	745.09	190.90
RVPNL	71.54	156.11	522.17	212.04
HPSEBL	16.17	27.90	112.62	34.24
UT, Chandigarh	7.88	13.57	54.83	16.67

*[Handwritten signature]*

**Statement Showing the Outstanding dues against  
Common Pool Consumers as on 30.11.2013.**

₹ in lacs

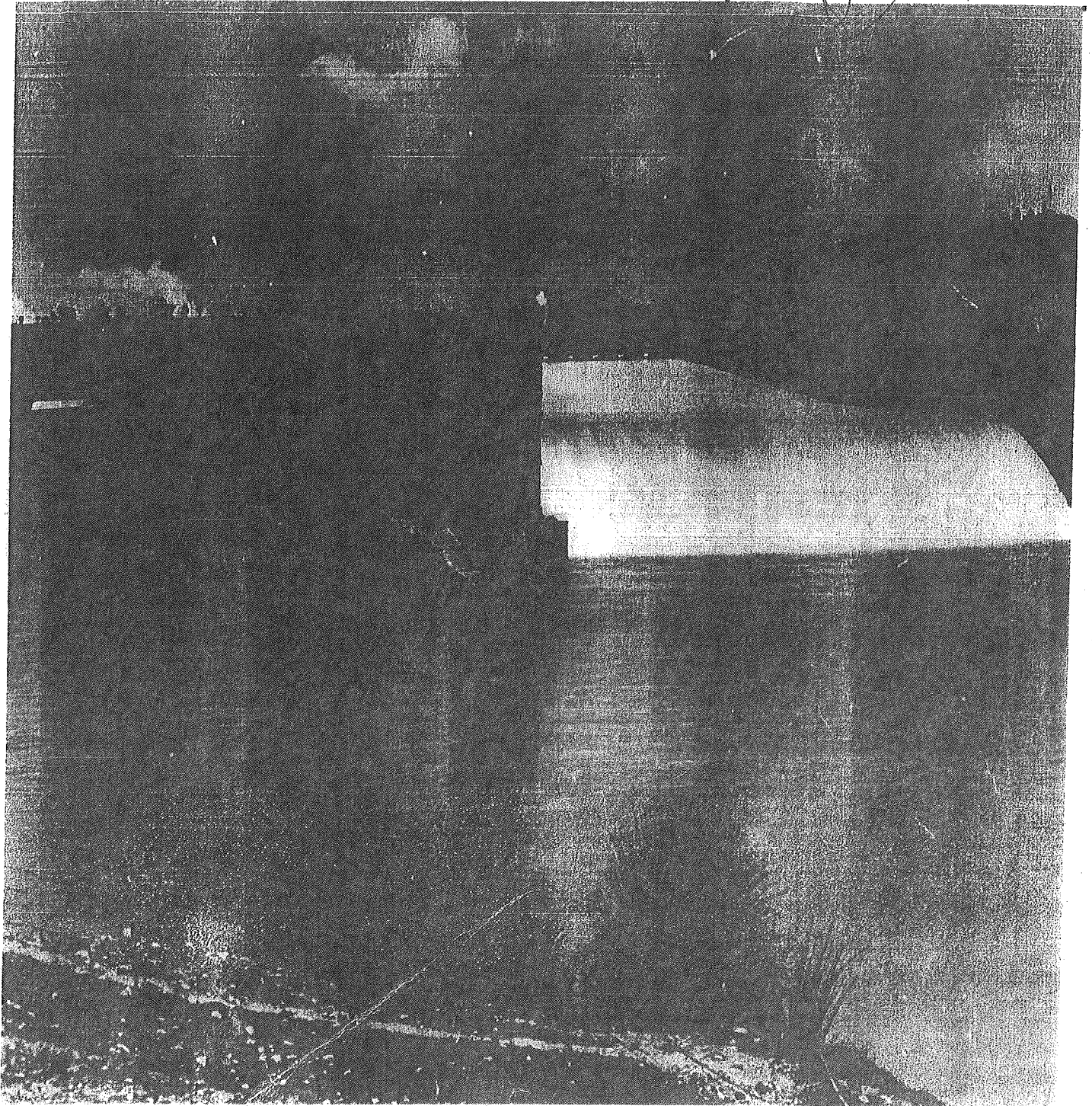
Sr. No.	Name of Consumer	Amount Outstanding
1	RRF (through RRVPNL)	6561.02
2	HPSEBL	144.70
3	U.T. Chandigarh	12388.20
4	Jammu & Kashmir	1788.39
5	D.T.L. (DESU)	110.20
6	UPPCL (UPSEB)	-2.71
7	NFL, Naya Nangal (Water Charges)	1.00
8	Others	324.26
	<b>Total</b>	<b>21315.06</b>



Bhakra Beas  
Nation's Pride

# BBMB BUDGET 2015-16

(Incorporating Revised Budget  
Estimate for 2014-15)



**BHAKRA BEAS MANAGEMENT BOARD**  
**CHANDIGARH - 160019**

*Handwritten signature*

*Handwritten marks*

# BBMB BUDGET

## CONTENTS

Budget Explanatory Note	1-19
Physical Performance Budget	19-22
Expenditure for the last five years.	23-24
Summary - Revised Budget Estimates for 2014-15 & Budget Estimates for 2015-16 and share of Partner States/State Power Utilities to be financed by them.	25-31

### REVENUE HEADS OF ACCOUNTS

Actual Exp. for 2013-2014, Original Budget for 2014-15, Revised Budget for 2014-2015 and Budget Estimates for 2015-16 (Irrigation Wing).	32-34
2700-Major Irrigation Bhakra Dam	
List of estimates for Rs. 1.00 lac & above – Irrigation Wing – Bhakra Dam	35-40
2700-Major Irrigation -III-Beas Project	41-44
List of estimates for Rs. 1.00 lac & above – Irrigation Wing – Beas	45-57
Actual Exp. for 2013-14, Original Budget for 2014-2015, Revised Budget for 2014-2015 and Budget Estimates for 2015-2016 (Power Wing) Bhakra Complex	58-60
Actual Exp. for 2013-14, Original Budget for 2014-2015, Revised Budget for 2014-2015 and Budget Estimates for 2015-2016 (Power Wing) Beas Project	61-65
List of Estimates for Rs. 10.00 lacs & above (Power Wing)	66-82

# C O N T E N T S

## CAPITAL HEADS OF ACCOUNTS

Actual Exp. for 2013-2014, Original Budget Estimates for 2014-2015, Revised Budget for 2014-2015 and Budget Estimates for 2015-2016

- i) 4700- Capital Outlay on Major Irrigation Bhakra Dam 83
- ii) 4700- Capital Outlay – III – Beas Project. 83-84

## REVENUE RECEIPTS (IRRIGATION WING)

0700-Bhakra Project and Beas Project 85-86

## REVENUE RECEIPTS (POWER WING)

0801-Bhakra Complex and Beas Complex 86-87

Outstanding dues against Common Pool Consumers ending 30.09.2014 and brief status of Major outstanding dues 88-91

27

# EXPLANATORY NOTE ON THE REVISED BUDGET ESTIMATES FOR THE YEAR 2014-15 AND BUDGET ESTIMATES FOR THE YEAR 2015-16 OF BHAKRA BEAS MANAGEMENT BOARD

\*\*\*\*\*

## 1. INTRODUCTORY

The Bhakra Beas Management Board has been constituted under section-79 (1) of the Punjab Re-organisation Act, 1966 for the Administration, Maintenance & Operation of works mentioned in Section-79 of the said Act. According to Sub-section 5 of Section 79 the Governments of successor States 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.

## 2. SOURCE OF FINANCING

The sources of financing the expenditure in the Irrigation Wing and Power Wing of the Bhakra Beas Management Board are different. Revenue expenditure of Irrigation Wing is financed by the partner State Governments of Punjab, Haryana & Rajasthan from their own resources in the agreed ratios. In the Power Wing the Revenue Expenditure is partly met out of the receipts realized from the Common Pool Consumers and short-falls are financed by the partner state power utilities including H.P.S.E.B. and U.T., Electricity Department, Chandigarh also from

their own resources. The Capital expenditure of Irrigation & Power Wings of Bhakra Nangal Project is met out of sale proceeds of surplus machinery and stores, the purchase of which has already been charged to the Capital Head of Accounts. The Capital works of Beas Project were executed by Beas Construction Board and the expenditure was met out of Central assistance given to the participating State Governments by the Govt. of India. The amount of loan was being credited to the P.L.A. of Beas opened in the Public Account of Government of India and it was treated as loan to the participating Governments. The Budget was being approved by B.C.B. and after its take over by BBMB, funds required for residual liabilities are now being provided in Budget of Bhakra Beas Management Board and Budget Estimates relating to Capital works of Beas Project have been included in the Budget of the Bhakra Beas Management Board under the respective Capital Heads of Account. The participating State Governments will have to provide funds to Bhakra Beas Management Board to meet this expenditure out of their plan outlay or their own resources. Details of these proposals have been discussed in the subsequent paragraphs.

The Ministry of Power, Govt. of India, New Delhi on the direction of Hon'ble Supreme Court of India vide its notification no. 02/13/96-BBMB (Vol. VI) dated 31.10.2011, has revised the sharing of allocation of energy from Bhakra-Nangal and Beas Projects w.e.f. 01.11.2011.

The sharing of the cost of Irrigation Wing/Power Wing is defined on next page:-



(A) Irrigation Wing:

	Bhakra Project	BSL Project, S. Ngr., 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) Power Wing:

(i) Effective upto 31.10.2011

	Bhakra (PW) Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Trams. Lines
P.S.P.C.L.	60% (after deducting RRVNL Share)	48%	24.9%	24.5%
H.V.P.N.L.	40% (after deducting RRVNL Share)	32%	16.6%	51.7%
R.R.V.P.N.L.	15.22%	20%	58.5%	23.8%

(ii) Effective from 01.11.2011 vide Govt. of India, Ministry of Power,  
New Delhi Notification No. 02/13/96-BBMB (Vol. VI) dated  
31.10.2011.

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Trams. Lines
P.S.P.C.L.	51.80% (after deducting RRVNL Share)	51.80% (after deducting RRVNL Share)	51.80% (after deducting RRVNL Share)	28.72% (after deducting RRVNL Share)
H.V.P.N.L.	37.51% (after deducting RRVNL Share)	37.51% (after deducting RRVNL Share)	37.51% (after deducting RRVNL Share)	60.59% (after deducting RRVNL share)
R.R.V.P.N.L.	15.22%	20%	58.5%	23.8%
H.P.S.E.B.L.	7.19% (after deducting RRVNL Share)	7.19% (after deducting RRVNL Share)	7.19% (after deducting RRVNL Share)	7.19% (after deducting RRVNL Share)



Electricity Deptt., UT, Chandigarh.	3.5% (after deducting RRVPL Share)	3.5% (after deducting RRVPL Share)	3.5% (after deducting RRVPL Share)	3.5% (after deducting RRVPL Share)
-------------------------------------------	------------------------------------------	------------------------------------------	------------------------------------------	------------------------------------------

(iii) According to above notification the absolute %age share of Power Wing of BBMB between Partner Power Utilities comes as under:-

	Bhakra PW Project	Dehar Power House, Unit-I	Pong Power House Unit-II	Beas Trams. Lines
P.S.P.C.L.	✓ 43.91% ✓	✓ 41.44% ✓	✓ 21.50%	21.88%
H.V.P.N.L.	31.80%	30.01%	15.57%	46.17%
R.R.V.P.N.L.	15.22%	20.00%	58.50%	23.80%
H.P.S.E.B.L.	6.10%	5.75%	2.98%	5.48%
Electricity Deptt., UT, Chandigarh.	2.97%	2.80%	1.45%	2.67%

The Revenue and Capital expenditure of Bhakra Beas Management Board has been shown separately under Irrigation and Power Wing.

### 3. SALIENT FEATURES

#### (a) Revenue Receipts

Irrigation receipts have been budgeted on the basis of expected realisation of receipt on account of Building Rent, Water charges etc., Supply of water to Delhi Jal Nigam. Revenue Receipts in the Power Wing have been estimated on the basis of receipts on account of sale of energy to the common pool consumers etc.

*JK*

b) Revenue Expenditure

The Major Head-wise and Minor Head-wise details of Budget Estimates are given from Page 32 to 87.

The Summary of Revenue Expenditure is given as under: -

(Figures in lacs of ₹)

	Actual Exp. During the year 2013-14	Original Budget for the year 2014-15	Actual Exp. From 04/2014 to 10/2014	Revised Budget Est. for the year 2014-15	Budget Estimates for the year 2015-16
<b>Gross Expenditure incurred directly By Irrigation Wing</b>					
Bhakra	22888.48	26772.70	15271.27	27053.07	29560.46
Beas	25118.21	26912.10	16340.82	27306.49	29377.87
<b>Total</b>	<b>48006.69</b>	<b>53684.80</b>	<b>31612.09</b>	<b>54359.56</b>	<b>58938.33</b>
<b>Gross Expenditure incurred directly By Power Wing</b>					
Bhakra	21089.45	37536.00	13527.64	26879.46	35763.89
Beas	15239.71	19647.18	9577.50	19529.42	23028.62
<b>Total</b>	<b>36329.16</b>	<b>57183.18</b>	<b>23105.14</b>	<b>46408.88</b>	<b>58792.51</b>
<b>Grand total of Gross Expenditure Incurred directly by Irrigation &amp; Power Wing</b>	<b>84335.85</b>	<b>110867.98</b>	<b>54717.23</b>	<b>100768.44</b>	<b>117730.84</b>
<b>Net Expenditure debited to Irrigation Wing</b>					
Bhakra	11533.49	13458.38	7682.62	13625.12	14839.03
Beas	11435.24	13667.77	7157.27	13322.92	14252.14

Total	22968.73	27126.15	14839.89	26948.04	29091.17
Net Expenditure debited to Power Wing					
Bhakra	32444.45	50850.33	21116.29	40307.42	50485.33
Beas	28922.67	32891.51	18761.05	33512.98	38154.34
Total	61367.12	83741.84	39877.34	73820.40	88639.67
Grand Total of Net Expenditure of Irrigation Wing as well as Power Wing	84335.85	110867.99	54717.23	100768.44	117730.84

#### 4. REVENUE EXPENDITURE

The reasons for variation in the Gross Revenue Expenditure to be incurred by the Irrigation and Power Wing respectively are explained as under: -

##### A. IRRIGATION WING

- (a) Revised Budget Estimates for 2014-15 under Major Head " 2700 – Major-Irrigation-I-Bhakra Dam" 2700-01-129

(Figures in lacs of ₹)

	Budget Grant for the Year 2014-15	Revised Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
Works	2920.09	2893.53	(-) 26.56
Establishment	23852.61	24159.54	(+) 306.93
Total	26772.70	27053.07	(+) 280.37

There is an overall less provision of ₹ 26.56 lac under the Head 'Works' in Revised Budget Estimates 2014-15 over Original Budget Estimates for the year 2014-15.

There is an overall excess provision of ₹ 306.93 lac under the Head 'Establishment' in Revised Budget Estimates 2014-15. This is mainly due to increase in man power and release of arrears on account of enhanced grade pay.

(b) **2700-Major-Irrigation – III – Beas Project**

2700-01-130

( Figures in lacs of ₹ )

	Budget Grant for the year 2014-15	Revised Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
Works	3053.25	3024.93	(-) 28.32
Establishment	23858.85	24281.56	(+) 422.71
Total	26912.10	27306.49	(+) 394.39

There is an overall less provision of ₹ 28.32 lac under the Head 'Works' in Revised Budget Estimates for the year 2014-15 over Original Budget Estimates for the year 2014-15.

There is an overall excess provision of ₹ 422.71 lac under the Head 'Establishment' in Revised Budget Estimates 2014-15. This is mainly due to increase in man power and release of arrears on account of enhanced grade pay.



(c) Budget Estimates for the year 2015-16

2700-Major Irrigation-I-Bhakra Dam 2700-01-129

(₹ in lac)

	Revised Budget Estimates for the year 2014-15	Budget Estimates for the year 2015-16	Variation (+) Excess (-) Saving
Works	2893.53	3555.91	(+) 662.38
Establishment	24159.54	26004.55	(+) 1845.01
Total	27053.07	29560.46	(+) 2507.39

There is overall excess provision of ₹ 662.38 lac under head "Works" in Budget Estimates for the year 2015-16 over the Revised Budget Estimates for the year 2014-15, which is mainly due to excess provision under head 'major works' of ₹ 730.17 lac, which is mainly due to increased provision for Construction of 500 Nos. quarters at Nangal, Renovation of 170 No. 'C' type quarters at Nangal, Construction of Indoor Stadium at Nangal and Replacement of Old Air Compressor etc.

The provision of ₹ 26004.55 lac under head "Establishment" for the year 2015-16 has been drawn up by focusing actual strength of staff, grant of normal increments, payments of arrears on account of revision of grade pay and hike in dearness allowance payable to the employees/retirees.

(d) Budget Estimates for the year 2015-16

2700-Major Irrigation-III-Beas Project 2700-01-130

( Figures in lacs of ₹ )

	Revised Budget Estimates for the year 2014-15	Budget Estimates for the year 2015-16	Variation (+) Excess (-) Saving
Works	3024.93	3251.17	(+) 226.24

Establishment	24281.56	26126.70	(+) 1845.14
Total	27306.49	29377.87	(+) 2071.38

There is an overall excess provision of ₹ 226.24 lac only under head 'Works'. This is mainly due to excess provision under heads 'maintenance works' of ₹ 216.72 lac.

The provision of ₹ 26126.70 lac under head "Establishment" for the year 2015-16 has been drawn up by focusing actual strength of staff, grant of normal increments, hike in dearness allowance payable to the employees/retirees, and arrears on account of revision of grade pay.

## **B. POWER WING**

### **(a) Revised Budget Estimates for the year 2014-15.**

2801-Power - Bhakra Left Bank Power Project & Bhakra Right Bank Power Project  
2801-01-201 2801-05-201 2801-01-205

( Figures in lac of ₹ )

	Budget Grant for the year 2014-2015	Revised Budget Estimates 2014-2015	Variation (+) Excess (-) Saving
1. <u>Works</u>			
a) <u>Works of Capital Nature</u>			
i. Uprating & Renovation of Bhakra Left Bank Power House	12500.00	6000.00	(-) 6500.00
Total RM&U Works	12500.00	6000.00	(-) 6500.00
iii. Other Capital Nature Works	5716.82	2052.09	(-) 3664.73
iv. Total Capital Nature Works	18216.82	8052.09	(-) 10164.73
b) Normal Operation & Mtc. Works (including Suspense)	1614.59	929.03	(-) 685.56

c) Total Works (a + b)	19831.41	8981.12	(-) 10850.29
2. Establishment	17704.59	17898.34	(+) 193.75
Grand Total	37536.00	26879.46	(-) 10656.54

The provision of ₹ 6000.00 lac for the work "Upgrading and Renovation of Bhakra Left Bank Power House" has been made in Revised Budget Estimates for the year 2014-15 keeping in view the payment to be made to the firm, which result in reduction of expenditure under this Head to the extent of ₹ 6500.00 lac in Revised Budget Estimates for the year 2014-15.

For other Capital Nature Works there is less provision of ₹ 3664.73 lacs. This is mainly due to deferment of works of Capital Mtc. of Unit No. 6 of Bhakra Power Plant-II (₹981.00 lacs), R&R of 35 Nos. CT's with Polymer Type CT's of Units & Feeders at 220 KV Switchyard of Bhakra Right Bank Power House (₹150.00 lac), R&R of Old Non FRLS Control and Power Cables with FRLS, PVC Insulated cables running in Cable Gallery from Bhakra Right Bank Power House to Switchyard (₹150.00 lac), Carrying of under water repairs/replacement of the damaged/deteriorated guide/track of all the draft tube gates of 5 No.s units 3 Nos. at Ganguwal and 2 Nos. at Kotla Power House (₹250.00 lacs), Replacement of old critical 0.3 Sq" got conductor of R/Road Narela Ckt; Line 1 & 2 (₹250.00 lac), Replacement of 2 Nos. 45/60 MVA 220/66 KV MITUBISHI make transformers at 220 KV Sub Station (₹500.00 lacs), Replacement of 1 No. 20 MVA 66/33 KV Savoisienue make transformer at 220 KV Sub Station, Dhulkote (₹125.00 lacs), Est. for replacement of existing 220 KV Bus Bar protection scheme with new microprocessor controlled scheme at 220 KV Sub Station, BBMB, jalandhar (₹89.90 lac), providing 4 Nos. Nitrogen Injection and fire prevention system for Transformer at 220 KV Sub Station, BBMB, Jamalpur,

Ludhiana (₹84.00 lac), Re-conductoring of 220 KV Bhakra-Jamalpur DC Line with AAAC-465 mm Sq. conductor (₹175.00 lacs). The detail of major works is detailed in power wing lists of works.

There is a less provision of ₹ 685.56 lac under Normal Operation & Maintenance Head.

There is an overall excess provision of ₹ 193.75 lac under the Head 'Establishment'. This is mainly due to increase in man power, payment of arrear on account of enhanced grade pay.

**b) Revised Budget Estimates for the year 2014-2015**

**2801-Power -Beas Project (Power Wing)**

2801-01-202 2801-01-203 2801-05-204 2801-01-205

(Amount in lac of ₹)

		Budget for the year 2014-15	Grant the year	Revised Budget Estimates for the year 2014-15	Variation (+) Excess (-) Saving
1.					
a)	Works of Capital Nature	3652.66		3689.51	(+) 36.85
b)	Normal Operation & Maintenance Works (including Suspense)	3631.77		3413.23	(-) 218.54
c)	Total Works (a+b)	7284.43		7102.74	(-) 181.69
2	Establishment	12362.75		12426.68	(+) 63.93
	Grand Total	19647.18		19529.42	(-) 117.76

There is excess provision of ₹ 36.85 lac under head 'Capital Nature Works'.

There is less provision of ₹ 218.54 lacs under 'Normal Operation & Maintenance Works'. The detail of major works is detailed in Power Wing lists of works.



There is excess provision of ₹ 63.93 lac only under the head 'Establishment' which mainly keeping in view of the actual establishment expenditure for current financial year.

(c) **Budget Estimates for the year 2015-2016**

2801-Power Bhakra Left Bank & Bhakra Right Bank Power Projects.

2801-01-201 2801-05-201 2801-01-205

(Figures in lacs of ₹)

		Revised Budget Estimates for 2014-15	Budget Estimates for the year 2015-16	Variation (+) Excess (-) Saving
a)	<u>Works of Capital Nature</u>			
i.	Uprating & Renovation of Bhakra Left Bank Power Houses	6000.00	10000.00	(+) 4000.00
	Total RM&U Works	6000.00	10000.00	(+) 4000.00
iii.	Other Capital Nature Works	2052.09	5116.94	(+) 3064.85
iv.	Total Capital Nature Works	8052.09	15116.94	(+) 7064.85
b)	Normal Operation & Mtc. Works (including Suspense)	929.03	1425.99	(+) 496.96
c)	Total Works (a + b)	8981.12	16542.93	(+) 7561.81
2.	Establishment	17898.34	19220.96	(+) 1322.62
	Grand Total	26879.46	35763.89	(+) 8884.43

The provision of ₹ 10000.00 lac for uprating and renovation of Bhakra left bank power house has been made for the payment to be made during the year 2015-16 for material to be received/execution of work from/by the firm.

There is an excess provision of ₹ 3064.85 lac for other capital nature works, which is mainly due to works of Evacuation Power from unit No. 1 of Bhakra PP-I to 220 KV S/Yard Bhakra PP-II (₹150.00 lacs), Capital Mtc. of Unit No. 6 of Bhakra PP-II (₹ 100.00 lacs), R&R of 35 Nos. CT's with Polymer Type CT's of Units &

Feeders at 220 KV Switchyard of Bhakra Right Bank Power House (₹ 145.00 lacs), R&R of Old Non FRLS Control and Power Cables with FRLS, PVC Insulated cables running in Cable Gallery from Bhakra Right Bank Power House to Switchyard (₹100.00 lacs), Carrying of under water repairs/replacement of the damaged/deteriorated guide/track of all the draft tube gates of 5 No.s units 3 Nos. at Ganguwal and 2 Nos. at Kotla Power House (₹250.00 lacs), Replacement of Static/Electromechanical relay with numerical relays having GPS time synchronisation and DR facility on 220 KV Feeders at 220 KV MISS Ganguwal (₹, 148.00 lacs), Providing of spares of Digital Governor or Unit No. 1 at Ganguwal and Kotla Power Houses (₹95.00 lacs), Re-conductoring of 220 KV Bhakra-Jamalpur DC (₹ 150.00 lacs). The detail of major works is detailed in power wing lists of works.

There is excess provision of ₹496.96 lac under sub-head "Normal Operation and Maintenance" including suspense.

The provision of ₹ 19220.96 lac under the head 'Establishment' for the year 2015-16 has been drawn up by focusing actual strength of staff, grant of normal increments and hike in dearness allowance payable to the employees/retirees.

(d) Budget Estimates for the year 2015-2016

2801-Power –Beas Project (Power Wing)

2801-01-202    2801-01-203    2801-05-204    2801-01-205

(₹ in lac)

		Revised Budget Estimates for the Year 2014-2015	Budget Estimates for the year 2015-2016	Variation (+) Excess (-) Saving
1.				
a)	Works of Capital Nature	3689.51	5382.69	(+) 1693.18
b)	Normal Operation & Maintenance Works (including Suspense)	3413.23	3829.86	(+) 416.63

SR

	Total Works (a +b)	7102.74	9212.55	(+) 2109.81
2.	Establishment	12426.68	13816.07	(+) 1389.39
	Grand Total	19529.42	23028.62	(+) 3499.20

There is an overall excess provision of ₹ 1693.18 lacs under head "Capital Nature Works". This is mainly due to Renewal and Replacement of CO2 Bank-B at Dehar Power House (₹342.00 lacs), Replacement of old existing stator of Unit No. 6 with new one latest design at Dehar Power House, Slapper (₹914.62 lacs) and Procurement of 1 No. 60 MVA 11/400//√3KV & 1No. 11/220 KV11//√3KV Generator Transformer for DPH, Slapper (₹1000.00 lacs).

There is excess provision of ₹ 416.63 lacs only under head 'Normal Operation & Maintenance Works'. This is mainly due to Capital Mtc. of Rotary Valve of Dehar Units No. 1 and 2(₹200.00 lacs), Capital Mtc. of Butter Fly Valve No. 3 controlling Units No. 5 and 6 of Dehar Power House(₹150.00 lacs) and RLA study of various Equipment at Dehar Power House (₹300.00 lacs).

The provision of ₹ 13816.07 lac under the head 'Establishment' for the year 2015-16 has been drawn up by focusing actual strength of staff, grant of normal increments, hike in dearness allowance payable to the employees/retirees and payment of arrears on account of grade pay.

## 5. CAPITAL EXPENDITURE

The summary of the budget provisions made in the Revised Budget Estimates for the year 2014-15 and the Budget Estimates for the year 2015-16 in

*[Signature]*

respect of capital expenditure of Bhakra Nangal Project and Beas Project is given as under: -

(Amount in lacs of ₹)				
		Budget Grant for the year 2014-15	Revised Budget Estimates for the year 2014-15	Budget Estimates for the year 2015-16
	<b><u>Major Head – 4701 – Capital Outlay</u></b>			
1.	Bhakra Nangal Project (Irr. Wing)	(-) 19.70	(-) 19.80	(-) 19.80
2.	Beas Project (Irrigation Wing)	129.00	79.00	79.00

The reasons for variation in the gross Capital expenditure to be incurred by the Irrigation and Power Wings are given as below:-

**A Irrigation Wing (Bhakra Nangal Project)**

**Major Head 4700 – Capital Outlay on Major Irrigation – I Bhakra Dam**

The provision in revised budget estimates 2014-15 under the Head 4700 – Bhakra Dam is made ₹ (-) 19.80 lacs against the provision of ₹ (-) 19.70 lacs in original budget estimates 2014-15. This minus expenditure will be met out of the sale proceeds of surplus stores, the purchase of which has already been charged to the Capital Head of Account. The same minus expenditure of ₹ 19.80 lacs proposed for the year 2015-16 will also be adjusted against the expenditure already incurred on residual capital works.

**B. Beas Project**

**Major Head: 4700 – Capital Outlay on Major Irrigation – I Beas Project.**

The provision in revised budget estimates for the year 2014-15 is made ₹ 79.00 lac against the provision of ₹129.00 lac in original budget estimates 2014-15

and the same provision of ₹ 79.00 lacs has been made in budget estimates for the year 2015-16 to make payment to ex-land owners under section 28A/18A of 'Land Acquisition Act'.

**6. NET REVENUE  
EXPENDITURE OF  
PARTNERS**

The requirement of funds from the partner State Governments/State Power Utilities for financing Revenue expenditure of the Bhakra Beas Management Board after deducting the share of Revenue Receipts of Power Wing during RBE 2014-2015 (₹ 337.69 Crores) and BE 2015-2016 (₹ 348.51 Crores), excluding RM&U works, is given as under: -

(Amount in lacs of ₹)			
	Budget Grant for the year 2014-15	Revised Budget Estimates for 2014-15	Budget Estimates for 2015-16
<b><u>IRRIGATION WING</u></b>			
Punjab Govt.	10657.42	10689.45	11598.23
Haryana Govt.	6977.62	6988.01	7586.82
Rajasthan Govt.	9491.12	9270.57	9906.10
<b>Total</b>	<b>27126.16</b>	<b>26948.03</b>	<b>29091.15</b>
<b><u>POWER WING</u></b>			
P.S.P.C.L.	15326.42	11884.67	15827.03
H.V.P.N.L.	13674.62	10998.76	14125.90

R.V.P.N.L.	9665.27	8429.23	10249.93
H.P.S.E.B.	2334.75	1842.25	2411.39
UT, Chandigarh	1136.52	896.80	1173.84
<b>TOTAL</b>	<b>42137.58</b>	<b>34051.71</b>	<b>43788.09</b>

## 7. RM&U WORKS

### BHAKRA LEFT BANK POWER HOUSE

The Board in its 177<sup>th</sup> meeting held on 21.02.2002 at Chandigarh administratively approved the renovation, modernization and uprating of Bhakra Left Bank Power House to be carried out under Accelerated Generation & Supply Programme (AG&SP) through global tendering process. A sum of ₹ 6000.00 lacs and ₹10000.00 lacs has been provided for the aforesaid work in the Revised Budget Estimates for the year 2014-15 and Budget Estimates for the year 2015-16 respectively for making payment to the firm. Loan to the extent of 80% of expenditure has been arranged by State Electricity Utilities and balance 20% is to be provided by the partner State Electricity Utilities from their own resources. The shares of the partner State Electricity Utilities in the expenditure of above mentioned works are as under:-

	Budget Estimates for the year 2014-15	Revised Budget Estimates for the year 2014-15	Budget Estimates for the year 2015-16
P.S.P.C.L.	5489.51	2634.97	4391.60

(₹ in lac)

H.V.P.N.L.	3975.12	1908.06	3180.10
R.V.P.N.L.	1902.50	913.20	1522.00
H.P.S.E.B.L.	761.96	365.74	609.57
UT, Chd.	370.91	178.03	296.73
TOTAL	12500.00	6000.00	10000.00

### 8. SHARING OF NET CAPITAL EXPENDITURE

The requirement of funds from the partner State Govts. during the year 2014-15 (Revised) and 2015-2016 (Proposed) for financing the Capital expenditure of Bhakra and Beas Project is given on next page:-

#### BHAKRA – Revised Budget Estimates 2014-2015

The provision under the Major Head 4700- Bhakra Dam is minus. The minus expenditure will be adjusted against the expenditure already incurred on residual capital works for which no funds were provided by the Partner State Governments as explained in Para no. 2 above.

#### BHAKRA – Budget Estimates 2015-2016

The provision under the Major Head 4700- Bhakra Dam is minus. The minus expenditure will be adjusted against the expenditure already incurred on residual capital works for which no funds were provided by the Partner State Governments as explained in Para no. 2 above.

## B. BEAS PROJECT

(Amount in lacs of ₹)

	Irrigation Wing	Power Wing	Total
<b><u>2014-2015 (Revised)</u></b>			
<b><u>Net Expenditure</u></b>			
Punjab	15.05	4.63	19.68
Haryana	10.03	3.08	13.11
Rajasthan	35.35	10.86	46.21
Total	60.43	18.57	79.00
<b><u>Budget Estimates 2015-2016</u></b>			
<b><u>Net Expenditure</u></b>			
Punjab	15.05	4.63	19.68
Haryana	10.03	3.08	13.11
Rajasthan	35.35	10.86	46.21
Total	60.43	18.57	79.00

### 9. PERFORMANCE BUDGETING/PHYSICAL PERFORMANCE

The data relating to physical performance i.e. the Generation Target and the actual generation achieved during the last five years in various Power Houses of BBMB is given as under:-

Year	Installed Capacity (MW)	Generation Target (MU)	Actual Generation (MU)
<b>Bhakra Complex, Ganguwal &amp; Kotla Power Houses</b>			
2009-10	1478.73	5334	5606.00
2010-11	1478.73	5340	6660.45



2011-12	1478.73	5900	7382.93
2012-13	✓ 1478.73 ✓	5900	5955.18
2013-14	1514.73	5542	7228.49
2014-15 (Projected)	1514.73	5152	3526.31 (Actual upto 09/2014)
<b><u>Dehar Power Plant:</u></b>			
2009-10	990	2895	2938
2010-11	990	3052	3312.98
2011-12	990	3000	3254.85
2012-13	✓ 990	3000	3220.47
2013-14	990 ✓	3000	3158.67
2014-15 (Projected)	990	3000	2263.83 (Actual upto 09/2014)
<b><u>Pong Power Plant:</u></b>			
2009-10	396	881	951
2010-11	396	883	1347.25
2011-12	396	1123	1852.83
2012-13	396 ✓	1123	1824.04
2013-14	396	1123	1766.97
2014-15 (Projected)	396	1123	618.21 (Actual upto 09/2014)

The position of in-flow and release from Bhakra Dam Reservoir and Pong Dam Reservoir during the last five years is given as under: -

**Bhakra Dam Reservoir**

Live Storage capacity at 1680 ft. = 4.870 M.A.F.  
Dead Storage capacity at 1462 ft. = 1.252 M.A.F.

<u>IRRIGATION</u>		
<u>Bhakra Dam</u>		
<u>Year</u>	<u>Inflow MAF</u>	<u>Release MAF</u>
2009-10	12.421	13.193
2010-11	17.191	15.721
2011-12	15.556	16.261
2012-13	13.264	13.094
2013-14	16.035	15.848
2014-15	13.661 (Actual upto 27.10.14 & assumed thereafter)	14.140 (Actual upto 27.10.14 & assumed thereafter)

Pong Dam Reservoir

Live Storage capacity at 1390 ft. = 4.837 M.A.F.

Dead Storage capacity at 1260 ft. = 0.879 M.A.F.

<u>Year</u>	<u>Inflow MAF</u>	<u>Release MAF</u>
<u>IRRIGATION</u>		
2009-10	4.167	4.875
2010-11	7.725	5.984
2011-12	8.043	8.959
2012-13	8.066	8.479
2013-14	8.541	8.267
2014-15	6.165 (Actual upto 27.10.14 & assumed thereafter)	7.291 (Actual upto 27.10.14 & assumed thereafter)

*[Handwritten signature]*

## 10. STAFF POSITION

The staff position during the last three years is as under: -

Sr. No.	Date	Sanctioned strength of employees	No. of employees in position
1.	31.03.2012	14974	10210
2.	31.03.2013	13839 (Restructured)	10011
3.	31.03.2014	13839 (Restructured)	10138

The details of Revenue Expenditure during the last five years are given at Page 23-24.



# BHAKRA BEAS MANAGEMENT BOARD

Statement Showing the expenditure incurred by the BBMB during the last five years under the Major

Head 2700 Major & Minor Irrigation Bhakra & Beas as well as under the Head 2801/2805 Power Hydel.

Sr. No	Particulars	2009-10	2010-11	2011-12	2012-13	2013-14
<b>GROSS EXPENDITURE</b>		₹In Lacs				
I	<b><u>Bhakra Dam (Irrigation Wing)</u></b>					
	Works	1085.28	1259.93	1228.61	579.98	921.51
	Establishment	11351.30	14538.87	17681.12	18942.82	21966.97
	Total	12436.58	15798.80	18909.73	19522.80	22888.48
	Deduct Share debitable to Power Wing	6173.15	7843.33	9386.31	9676.70	11355.00
	Net Irrigation Expenditure	6263.43	7955.47	9523.42	9846.10	11533.48
II	<b><u>Beas Project (Unit No. 1, BSL)</u></b>					
	Works	1495.71	1690.51	1660.62	1452.60	1358.56
	Establishment	6976.56	8576.63	11093.80	11894.95	13368.07
	Total	8472.27	10267.14	12754.42	13347.55	14726.63
	Deduct Share debitable to Power Wing	7963.94	9651.11	11989.15	12546.69	13843.04
	Net Irrigation Expenditure	508.33	616.03	765.27	800.86	883.59
	Add Share Transferred from Power Wing	200.09	220.87	296.95	367.21	308.24
	Net Irrigation Expenditure BSL Unit No.1	708.42	836.90	1062.22	1168.07	1191.83
III	<b><u>Unit No. 2 Pong Power Plant</u></b>					
	Works	712.23	990.27	941.11	604.11	680.02
	Establishment	5032.01	6178.34	8087.58	8337.51	9711.56
	Total	5744.24	7168.61	9028.69	8941.62	10391.58
	Deduct Share debitable to Power Wing	1349.90	1684.62	2121.74	2101.28	2442.02
	Balance Expenditure	4394.34	5483.99	6906.95	6840.34	7949.56
	Add Share Transferred from Power Wing	1043.25	1378.46	1563.54	2155.49	2293.85
	Net Irrigation Expenditure Pong Unit No.2	5437.59	6862.45	8470.49	8995.83	10243.41
<b><u>Total Beas Project Irrigation Wing</u></b>						
IV	<b><u>Unit No.1 &amp; 2</u></b>					
	Works	2207.94	2680.78	2601.73	2056.71	2038.58
	Establishment	12008.57	14754.97	19181.38	20232.46	23079.63
	Total	14216.51	17435.75	21783.11	22289.17	25118.21
	Deduct Share debitable to Power Wing	9313.84	11335.73	14110.89	14647.97	16285.06
	Balance Expenditure	4902.67	6100.02	7672.22	7641.20	8833.15
	Add Share Transferred from Power Wing	1243.34	1599.33	1860.49	2522.70	2602.09
	Net expenditure chargeable to Irr. Wing	6146.01	7699.35	9532.71	10163.90	11435.24
V	<b><u>Total Irrigation Expr. Bhakra &amp; Beas</u></b>					
	Works	3293.22	3940.71	3830.34	2636.69	2960.09
	Establishment	23359.87	29293.84	36862.50	39175.28	45046.60
	Total	26653.09	33234.55	40692.84	41811.97	48006.69
	Deduct Share debitable to Power Wing	15486.99	19179.06	23497.20	24324.67	27640.06
	Balance Expenditure	11166.10	14055.49	17195.64	17487.30	20366.63
	Add Share Transferred from Power Wing	1243.34	1599.33	1860.49	2522.70	2602.09
	Net expenditure to Irr. Wing	12409.44	15654.82	19056.13	20010.00	22968.72
VI	<b><u>280101/280105 Power Hydel Generation/ Transmission Bhakra Complex Power House</u></b>					
	Works	1384.71	5514.54	1100.06	1536.58	2235.34
	Establishment	9529.03	11939.45	14973.79	15594.77	17127.07
	Upgrading	4316.82	9505.07	5044.91	573.04	1727.04
	Total	15230.56	26959.06	21118.76	17704.39	21089.45
	Add Share Transferred from Irrigation Wing	6173.15	7843.33	9386.31	9676.70	11355.00
	Total	21403.71	34802.39	30505.07	27381.09	32444.45

24

-136-

VII 280101 Power Hydel Generation Beas

Project Dehar Power Plant Power Wing.

Works	1282.96	1228.04	1782.28	2741.80	1705.91
Establishment	2051.88	2453.16	3167.10	3378.40	3431.53
Total	3334.84	3681.20	4949.38	6120.20	5137.44
Deduct Share debitable to Irrigation Wing	200.09	220.87	296.95	367.21	308.24
Balance Expenditure	3134.75	3460.33	4652.43	5752.99	4829.20
Add Share Transferred from Irrigation Wing	7963.94	9651.11	11989.15	12546.69	13843.04
Net expenditure chargeable to Power Wing	11098.69	13111.44	16641.58	18299.68	18672.24

280101 Power Hydel Generation Beas

Project Unit No.2 Pong Power Plant

VIII (Power Wing).

Works	167.50	274.45	177.84	774.26	762.14
Establishment	1196.22	1527.46	1866.00	2043.37	2236.36
Total	1363.72	1801.91	2043.84	2817.63	2998.50
Deduct Share debitable to Irrigation Wing	1043.25	1378.46	1563.54	2155.49	2293.85
Balance Expenditure	320.47	423.45	480.30	662.14	704.65
Add Share Transferred from Irrigation Wing	1349.90	1684.62	2121.74	2101.28	2442.02
Net expenditure chargeable to Power Wing	1670.37	2108.07	2602.04	2763.42	3146.67

280105 Power Hydel Transmission

IX Beas Transmission Lines Project.

Works	530.13	1361.15	983.16	633.59	1489.02
Establishment	3179.17	3921.51	5009.88	5332.10	5614.75
Total BTL expr.chargeable to Power Wing	3709.30	5282.66	5993.04	5965.69	7103.77

Total Beas Project Power Wing

X

Works	1980.59	2863.64	2943.28	4149.65	3957.07
Establishment	6427.27	7902.13	10042.98	10753.87	11282.64
Total	8407.86	10765.77	12986.26	14903.52	15239.71
Deduct Share debitable to Irrigation Wing	1243.34	1599.33	1860.49	2522.70	2602.09
Balance Expenditure	7164.52	9166.44	11125.77	12380.82	12637.62
Add Share Transferred from Irrigation Wing	9313.84	11335.73	14110.89	14647.97	16285.06
Net expenditure to Power Wing	16478.36	20502.17	25236.66	27028.79	28922.68

Total Power Wing Expr. Bhakra & Beas

XI

Works	3365.30	8378.18	4043.34	5686.23	6192.41
Establishment	15956.30	19841.58	25016.77	26348.64	28409.71
Total	19321.60	28219.76	29060.11	32034.87	34602.12
Deduct Share debitable to Irrigation Wing	1243.34	1599.33	1860.49	2522.70	2602.09
Balance Expenditure	18078.26	26620.43	27199.62	29512.17	32000.03
Add Share Transferred from Irrigation Wing	15486.99	19179.06	23497.20	24324.67	27640.06
R.M.U	4316.82	9505.07	5044.91	573.04	1727.04
Net expenditure to Power Wing	37882.07	55304.56	55741.73	54409.88	61367.13

Total BBMB Expenditure Irr. & Power

XII

Works	6658.52	12318.89	7873.68	8322.92	9152.50
Establishment	39316.17	49135.42	61879.27	65523.92	73456.31
R.M. & U	4316.82	9505.07	5044.91	573.04	1727.04
Total	50291.51	70959.38	74797.86	74419.88	84335.85

*Handwritten signature*

137

# BHAKRA BEAS MANAGEMENT BOARD

## Summary

Relating to Revised Budget Estimates for the year 2014-15 & Budget Estimates for the year 2015-16

Head of Account	Actual expenditure for 2013-14	Org. Budget Grant 2014-15	Actual expr. From 04/2014 to 10/2014	Revised Budget Estimate 2014-15	Budget Estimates for 2015-16
-----------------	--------------------------------	---------------------------	--------------------------------------	---------------------------------	------------------------------

Figures in lacs of ₹

### Major Head "2700-Major & Medium Irrigation

Bhakra Dam					
Works Expenditure	921.51	2920.09	323.44	2893.53	3555.91
Establishment	21966.97	23852.61	14947.83	24159.54	26004.55
Total Expenditure	22888.48	26772.70	15271.27	27053.07	29560.46
Deduct share debitable to Power Wing	11355.00	13314.33	7588.65	13427.96	14721.44
<u>Net Bhakra Dam Expenditure Irrigation</u>	11533.49	13458.38	7682.62	13625.12	14839.03
Shares between the partner State Governments.					
Punjab	5934.33	6912.14	3940.19	7007.01	7625.66
Haryana	3836.23	4480.76	2562.44	4533.06	4938.45
Rajasthan	1762.93	2065.48	1179.99	2085.04	2274.91

### Beas Project Unit No.1 BSL

Works Expenditure		1358.56	2247.54	939.53	2214.72	2407.89
Establishment		13368.07	13204.42	8993.95	13912.01	14722.27
Total Unit No.1 BSL		14726.63	15451.96	9933.48	16126.73	17130.16
Deduct share debitable to Power Wing		13843.04	14524.84	9337.47	15159.13	16102.35
Balance expenditure		883.59	927.12	596.01	967.60	1027.81
Add Share transferred from Power Wing		308.24	383.25	197.53	430.97	595.88
<u>Net BSL expenditure Irrigation Wing</u>		1191.83	1310.37	793.54	1398.57	1623.69
Shares between the partner State Governments.						
Punjab	51 %	607.83	668.29	404.71	713.27	828.08
Haryana	34 %	405.22	445.53	269.80	475.51	552.05
Rajasthan	15 %	178.77	196.56	119.03	209.79	243.55

### Beas Project Unit No.2 Pong Dam, Talwara

Total Works Expenditure		680.02	805.71	55.13	810.21	843.28
Establishment		9711.56	10654.43	6352.21	10369.55	11404.43
Total Unit No.2 Pong Dam, Talwara		10391.58	11460.14	6407.34	11179.76	12247.71
Deduct share debitable to Power Wing		2442.02	2693.13	1505.72	2627.24	2878.21
Balance expenditure		7949.56	8767.01	4901.62	8552.52	9369.50
Add Share transferred from Power Wing		2293.85	3590.39	1462.11	3371.83	3258.95
<u>Net expenditure Pong Dam Irr. Wing</u>		10243.41	12357.40	6363.73	11924.35	12628.45
Shares between the partner State Governments.						
Punjab	24.9 %	2550.61	3076.99	1584.57	2969.17	3144.49
Haryana	16.6 %	1700.41	2051.33	1056.38	1979.44	2096.32
Rajasthan	58.5 %	5992.39	7229.08	3722.78	6975.74	7387.64

### Beas Project Unit No.1 & 2 I.B.

Works Expenditure		2038.58	3053.25	994.66	3024.93	3251.17
Establishment		23079.63	23858.85	15346.16	24281.56	26126.70
Total Beas Project Expr.		25118.21	26912.10	16340.82	27306.49	29377.87
Deduct share debitable to Power Wing		16285.06	17217.97	10843.19	17786.37	18980.56
Balance expenditure		8833.15	9694.13	5497.63	9520.12	10397.31
Add Share transferred from Power Wing		2602.09	3973.64	1659.64	3802.80	3854.83
<u>Net expenditure Beas Project Irr. Wing</u>		11435.24	13667.77	7157.27	13322.92	14252.14
Shares between the partner State Governments.						
Punjab		3158.44	3745.28	1989.28	3682.44	3972.57
Haryana		2105.63	2496.86	1326.18	2454.95	2648.37
Rajasthan		6171.16	7425.64	3841.81	7185.53	7631.19

**Total Irr. Bhakra & Beas**

Works Expenditure	2960.09	5973.34	1318.10	5918.46	6807.08
Establishment	45046.60	47711.46	30293.99	48441.10	52131.25
Total Expenditure	48006.69	53684.80	31612.09	54359.56	58938.33
Deduct share debitable to Power Wing	27640.06	30532.30	18431.84	31214.33	33702.00
Balance expenditure	20366.64	23152.51	13180.25	23145.24	25236.34
Add Share transferred from Power Wing	2602.09	3973.64	1659.64	3802.80	3854.83
<u>Total expr. chargeable to Irr. Wing.</u>	<u>22968.73</u>	<u>27126.15</u>	<u>14839.89</u>	<u>26948.04</u>	<u>29091.17</u>

Shares between the partner State Governments.

Punjab	9092.77	10657.42	5929.47	10689.45	11598.23
Haryana	5941.86	6977.62	3888.62	6988.01	7586.82
Rajasthan	7934.09	9491.12	5021.80	9270.57	9906.10

**Revenue Expenditure Bhakra Complex Power Houses****Major Head "280101/280105 Revenue Expr.**

Works Expenditure	2235.34	7331.41	554.78	2981.12	6542.93
Establishment	17127.07	17704.59	10973.83	17898.34	19220.96
Uprating	1727.04	12500.00	1999.03	6000.00	10000.00
Total Gross Expenditure	21089.45	37536.00	13527.64	26879.46	35763.89
Add share transferred from Irr. Wing.	11355.00	13314.33	7588.65	13427.96	14721.44
<u>Total Bhakra Complex Power Houses</u>	<u>32444.45</u>	<u>50850.33</u>	<u>21116.29</u>	<u>40307.42</u>	<u>50485.33</u>

Shares between the partner State Elec. Boards.

PSPCL	51.80 %	14248.32	22331.45	9273.44	17701.42	22171.15
HVPNL	37.51 %	10317.65	16170.90	6715.19	12818.15	16054.83
RVPNL	15.22 %	4938.04	7739.42	3213.90	6134.79	7683.87
HPSEBL	7.19 %	1977.71	3099.67	1287.18	2457.01	3077.42
UT, Chandigarh	3.50 %	962.72	1508.88	626.58	1196.04	1498.05

**Beas Project Power Wing Dehar Power Plant Unit No.1**

Works Expenditure	1705.91	3017.36	1178.81	3375.02	5479.05
Establishment	3431.53	3370.13	2113.43	3807.90	4452.41
Total expenditure	5137.44	6387.49	3292.24	7182.92	9931.46
Deduct share debitable to Irr. Wing	308.25	383.25	197.53	430.98	595.89
Balance expenditure	4829.19	6004.24	3094.71	6751.94	9335.57
Add share transferred from Irr. Wing	13843.04	14524.84	9337.47	15159.13	16102.35
<u>Total Expr. Dehar Power Plants.</u>	<u>18672.23</u>	<u>20529.08</u>	<u>12432.18</u>	<u>21911.07</u>	<u>25437.92</u>

Shares between the partner State Elec. Boards.

PSPCL	51.80 %	7737.77	8507.25	5151.89	9079.95	10541.48
HVPNL	37.51 %	5603.16	6160.36	3730.65	6575.08	7633.41
RVPNL	20.00 %	3734.45	4105.82	2486.44	4382.21	5087.58
HPSEBL	7.19 %	1074.03	1180.83	715.10	1260.33	1463.19
UT, Chandigarh	3.50 %	522.82	574.81	348.10	613.51	712.26

**Beas Project Power Wing Unit No.2 Pong Power Plant, Talwara**

Works Expenditure	762.14	1981.69	476.68	1874.41	1448.98
Establishment	2236.36	2711.63	1434.57	2533.21	2811.08
Total expenditure Unit No.2	2998.50	4693.32	1911.25	4407.62	4260.06
Deduct share debitable to Irr. Wing	2293.85	3590.39	1462.11	3371.83	3258.95
Balance expenditure	704.65	1102.93	449.14	1035.79	1001.11
Add share transferred from Irr. Wing	2442.02	2693.13	1505.72	2627.24	2878.21
<u>Total Expr. Pong Power Plants.</u>	<u>3146.67</u>	<u>3796.06</u>	<u>1954.86</u>	<u>3663.03</u>	<u>3879.32</u>

Shares between the partner State Elec. Boards.

PSPCL	51.80 %	676.44	816.04	420.24	787.44	833.94
HVPNL	37.51 %	489.83	590.92	304.31	570.21	603.88
RVPNL	58.50 %	1840.80	2220.70	1143.59	2142.87	2269.40
HPSEBL	7.19 %	93.89	113.27	58.33	109.30	115.75
UT, Chandigarh	3.50 %	45.71	55.14	28.39	53.21	56.35

Beas Transmission Lines

Works Expenditure	1489.02	2285.38	619.20	1853.31	2284.52
Establishment	5614.75	6280.99	3754.81	6085.57	6552.58
<u>Total BTL expr. Chargeable to Power Wing</u>	<u>7103.77</u>	<u>8566.37</u>	<u>4374.01</u>	<u>7938.88</u>	<u>8837.10</u>

Shares between the partner State Elec. Boards.

PSPCL 28.72 %	1554.41	1874.72	957.24	1737.40	1933.97
HVPNL 60.59 %	3280.00	3955.05	2019.46	3665.35	4080.05
RVPNL 23.80 %	1690.70	2038.80	1041.01	1889.45	2103.23
HPSEBL 7.19 %	389.20	469.33	239.64	434.95	484.17
UT, Chandigarh 3.50 %	189.46	228.46	116.66	211.73	235.69

Total Beas Project Power Wing

Works Expenditure	3957.07	7284.43	2274.69	7102.74	9212.55
Establishment	11282.64	12362.75	7302.81	12426.68	13816.07
Total expenditure	<u>15239.71</u>	<u>19647.18</u>	<u>9577.50</u>	<u>19529.42</u>	<u>23028.62</u>
Deduct share debitale to Irr. Wing	2602.10	3973.64	1659.64	3802.81	3854.84
Balance expenditure	12637.61	15673.54	7917.86	15726.61	19173.78
Add share transferred from Irr. Wing	16285.06	17217.97	10843.19	17786.37	18980.56
<u>Total Beas Project Expr.chargeable to PW</u>	<u>28922.67</u>	<u>32891.51</u>	<u>18761.05</u>	<u>33512.98</u>	<u>38154.34</u>

Shares between the partner State Elec. Boards.

PSPCL	9968.62	11198.01	6529.37	11604.79	13309.39
HVPNL	9372.99	10706.33	6054.42	10810.64	12317.34
RVPNL	7265.95	8365.32	4671.04	8414.53	9460.21
HPSEBL	1557.12	1763.43	1013.07	1804.58	2063.11
UT, Chandigarh	757.99	858.41	493.15	878.45	1004.30

Total Power Wing Expr. Bhakra & Beas

Works Expenditure	6192.41	14615.84	2829.47	10083.86	15755.48
Establishment	28409.71	30067.34	18276.64	30325.02	33037.03
Total expenditure	<u>34602.12</u>	<u>44683.18</u>	<u>21106.11</u>	<u>40408.88</u>	<u>48792.51</u>
Deduct share debitale to Irr. Wing	2602.10	3973.64	1659.64	3802.81	3854.84
Balance expenditure	32000.02	40709.54	19446.47	36606.07	44937.67
Add share transferred from Irr. Wing	27640.06	30532.30	18431.84	31214.33	33702.00
Uprating	1727.04	12500.00	1999.03	6000.00	10000.00
<u>Total Expr. Bhakra &amp; Beas (Power Wing)</u>	<u>61367.12</u>	<u>83741.84</u>	<u>39877.34</u>	<u>73820.40</u>	<u>88639.67</u>

Shares between the partner State Elec. Boards.

PSPCL	24216.94	33529.46	15802.81	29306.21	35480.54
HVPNL	19690.64	26877.23	12769.61	23628.79	28372.17
RVPNL	12203.99	16104.74	7884.94	14549.32	17144.08
HPSEBL	3534.83	4863.10	2300.25	4261.59	5140.53
UT, CHD	1720.71	2367.29	1119.73	2074.49	2502.35

Total Expr. Bhakra & Beas Power & Irrigation

Works Expenditure	10879.54	33089.18	6146.60	22002.32	32562.56
Establishment	73456.31	77778.80	48570.63	78766.12	85168.28
<u>Total Expenditure BBMB Bhakra&amp;Beas Power &amp; IB</u>	<u>84335.84</u>	<u>110867.98</u>	<u>54717.23</u>	<u>100768.43</u>	<u>117730.83</u>

Shares between the Partner State Elec. Boards &amp; State Govts.

Punjab/PSPCL	33309.71	44186.88	21732.28	39995.66	47078.77
Haryana/HVPNL	25632.50	33854.85	16658.23	30616.80	35958.99
Rajasthan/RVPNL	20138.08	25595.86	12906.74	23819.89	27050.18
HPSEBL	3534.83	4863.10	2300.25	4261.59	5140.53
UT, Chandigarh	1720.71	2367.29	1119.73	2074.49	2502.35

Total	84335.83	110867.98	54717.23	100768.43	117730.82
-------	----------	-----------	----------	-----------	-----------



**Capital expenditure to be financed out of Capital Receipts Head 4700-Capital Outlay Bhakra Irrigation**

Particulars	Actual Exp. for the year 2013-14	Org. Budget Est. for the year 2014-15	Revised budget for the year 2014-15	Budget Estimate for the year 2015-16
-------------	----------------------------------------	---------------------------------------------	----------------------------------------------	-----------------------------------------------

(₹ in lacs)

<b><u>Bhakra</u></b>	-65.36	-19.70	-19.80	-19.80
	-65.36	-19.70	-19.80	-19.80
Share between Partner State Govts				
Punjab	-33.25	-10.02	-10.07	-10.07
Haryana	-22.16	-6.68	-6.72	-6.72
Rajasthan	-9.95	-3.00	-3.01	-3.01

**Major Head 4700-Capital Outlay Beas Project to be met without Plan Assistance to be provided by the Govt. of India to the Partner State Govts. Of BBMB**

<b><u>Beas project</u></b>	20.48	98.68	60.43	60.43
	20.48	98.68	60.43	60.43
Share between Partner State Govts				
Punjab	5.10	24.57	15.05	15.05
Haryana	3.40	16.38	10.03	10.03
Rajasthan	11.98	57.73	35.35	35.35

**Major Head 48001-Capital Outlay on Power Plant Beas Project to be met without Plan Assistance to be provided by the Govt. of India to the partner State Govts./Elec. Boards/Power Utilities of BBMB**

<b><u>Beas</u></b>	37.48	30.32	18.57	18.57
Shares between the Partner State Govts/Power Utilities				
PSPCL	1.57	7.55	4.63	4.63
HVPNL	21.88	5.03	3.08	3.08
RVPNL	14.03	17.74	10.86	10.86

24

## REVENUE RECEIPTS

Particulars	Actual Receipt 2013-14	Original Budget Est. 2014-15	Revised Budget Est 2014-15	Budget Estimate 2015-16
-------------	---------------------------	---------------------------------	-------------------------------	----------------------------

₹(In Lacs)

### Major Head 700 Major & Medium Irr. Receipts

Bhakra				
Gross Receipts	384.15	566.17	646.70	675.05
Deduct Share creditable to Power Wing	192.08	283.09	323.35	337.53
Balance	192.07	283.08	323.35	337.52
Add Sale of water to DWSU	703.15	600.00	750.00	600.00
<u>Net Irrigation Wing Receipt</u>	<u>895.22</u>	<u>883.08</u>	<u>1073.35</u>	<u>937.52</u>

Shares between the partner State Govts.

Punjab	455.37	449.20	545.97	476.89
Haryana	303.58	299.47	363.99	317.92
Rajasthan	136.27	134.41	163.38	142.71

### Major Head 700 Revenue Receipts

Beas Project Irrigation Wing.				
Gross Receipts	584.54	834.03	648.41	639.87
Deduct Share creditable to Power Wing	248.11	479.00	314.78	296.49
Balance Receipt	336.43	355.03	333.63	343.38
Add share transferred from Power Wing.	69.74	3.86	6.44	6.44
<u>Total Beas Project Receipt creditable to I.B.</u>	<u>406.17</u>	<u>358.89</u>	<u>340.07</u>	<u>349.82</u>

Shares between the partner State Govts.

Punjab	112.59	96.05	88.57	90.63
Haryana	75.05	64.04	59.04	60.42
Rajasthan	218.53	198.80	192.46	198.77

### Total Revenue Receipts Irr. Bhakra & Beas

Gross Receipts	1671.84	2000.20	2045.11	1914.92
Deduct Share creditable to Power Wing	440.19	762.09	638.13	634.02
Balance Receipt	1231.65	1238.11	1406.98	1280.90
Add share transferred from Power Wing.	69.74	3.86	6.44	6.44
<u>Total Revenue Receipts creditable to Irrigation</u>	<u>1301.39</u>	<u>1241.97</u>	<u>1413.42</u>	<u>1287.34</u>

Shares between the partner State Govts.

Punjab	567.96	545.25	634.54	567.52
Haryana	378.63	363.51	423.03	378.34
Rajasthan	354.80	333.21	355.84	341.48

### Major Head 801 Power Hydel Generation Revenue Receipt

Power Wing Bhakra Nangal Project				
Gross Receipts	30786.33	28133.00	33025.00	34112.00
Add Share transferred from Irrigation Wing	192.07	283.08	323.35	337.52
<u>Total Receipts</u>	<u>30978.40</u>	<u>28416.08</u>	<u>33348.35</u>	<u>34449.52</u>

Shares between the partner State Elec'y Boards

PSPCL	13604.49	12479.22	14645.27	15128.87
HVPNL	9851.44	9036.59	10605.10	10955.29
RVPNL	4714.91	4324.93	5075.62	5243.22
HPSEBL	1888.35	1732.15	2032.81	2099.93
UT, CHD	919.22	843.19	989.55	1022.22

### Beas Project Power Wing Revenue Receipts

Gross Receipts	1593.61	213.00	112.00	112.00
Deduct share creditable to Irrigation	69.74	3.86	6.44	6.44
Balance Receipts	1523.87	209.14	105.56	105.56
Add Share transferred from Irrigation Wing	248.11	479.00	314.78	296.49
<u>Total Beas Project Receipts Power Wing</u>	<u>1771.98</u>	<u>688.14</u>	<u>420.34</u>	<u>402.05</u>

Shares between the partner State Elec'y Boards

PSPCL	526.06	234.31	141.30	133.04
HVPNL	664.47	190.90	116.87	110.88

RVPNL	438.96	212.04	131.27	128.93
HPSEBL	95.84	34.24	20.79	19.64
UT, Chandigarh	46.66	16.67	10.11	9.56
<u>Total Power Wing Receipts Bhakra and Beas</u>	32750.38	29104.22	33768.69	34851.57
Shares between the partner State Elec. Boards.				
PSPCL	14130.55	12713.53	14786.57	15261.91
HVPNL	10515.91	9227.49	10721.97	11066.17
RVPNL	5153.87	4536.97	5206.89	5372.15
HPSEB	1984.19	1766.39	2053.60	2119.57
UT, Chandigarh	965.88	859.86	999.66	1031.78
<u>Net Revenue Expenditure Irrigation Wing Bhakra &amp; Beas to be financed by the partner State Govts.</u>				
<u>Total expr. chargeable to Irr. Wing.</u>	22968.73	27126.15	26948.04	29091.17
Shares between the partner State Govts.				
Punjab	9092.77	10657.42	10689.45	11598.23
Haryana	5941.86	6977.62	6988.01	7586.82
Rajasthan	7934.09	9491.12	9270.57	9906.10



Net Revenue Expenditure Power Wing after deducting Revenue Receipts to be financed by the  
Partner State Electricity Boards/Power Utilities in the Revised Budget Estimate for the year 2014-  
2015 and Budget Estimate for the year 2015-16

₹ In Lacs

Revised Budget Estimates for the year 2014-15

	PSPCL	HVPNL	RVPNL	HPSEBL	UT CHD	TOTAL
Revenue Expenditure	29306.21	23628.79	14549.32	4261.59	2074.49	73820.40
Revenue Receipts	14786.57	10721.97	5206.89	2053.60	999.66	33768.69

Net Revenue Expenditure to be financed by

State Power Utilities/Board during 2014-15

	14519.64	12906.82	9342.43	2207.99	1074.83	40051.71
--	----------	----------	---------	---------	---------	----------

₹ In Lacs

Budget Estimates for the year 2015-16

	PSPCL	HVPNL	RVPNL	HPSEBL	UT CHD	TOTAL
Revenue Expenditure	35480.54	28372.17	17144.08	5140.53	2502.35	88639.67
Revenue Receipts	15261.91	11066.17	5372.15	2119.57	1031.78	34851.58

Net Revenue Expenditure to be financed by

State Power Utilities/Board during 2015-16

	20218.63	17306.00	11771.93	3020.96	1470.57	53788.09
--	----------	----------	----------	---------	---------	----------



**Detail of Budget Estimates under Major Head Social and Community Services Economic (C) Services as  
(d) Irrigation and Flood Control "2700 Major, Commercial & BBMB Portion Bhakra Nangal Project**

Head of Account.		Actual expenditure 2013-14	ORG. Budget Estimate 2014-15	Revised Budget 2014-15	Budget Estimates 2015-16
(Figures in lacs of ₹)					
<b>Bhakra Nangal Project</b>					
<b>Unit No - 1 Bhakra Dam</b>					
<u>Works Portion</u>					
Major Works		129.12	894.74	841.74	1571.91
Minor Works			0.90	0.90	0.50
Maintenance works		738.96	978.53	1036.86	859.90
Machinery & Equipment		59.51	293.37	412.16	277.38
Losses written-off		0.07	0.50	0.50	0.50
Suspense		-261.33	85.00	85.00	90.00
HP-II Works				135.00	70.00
Total works Unit No.1 Bhakra Dam		666.33	2253.04	2512.16	2870.19
Deduct Share Debitable to Power Wing		333.17	1126.52	1256.08	1435.10
Balance chargeable to Irrigation Wing		333.16	1126.52	1256.08	1435.09
Share between Partner State Govts					
Punjab	60 %	169.47	573.04	638.94	730.00
Haryana	40 %	112.98	382.02	425.96	486.67
Rajasthan	15.22 %	50.71	171.46	191.18	218.42
<u>Direction &amp; Administration</u>		20221.91	21876.22	22090.96	23788.99
Deduct Share Debitable to Power Wing		10110.96	10938.11	11045.48	11894.50
Balance D&A chargeable to Irrigation Wing		10110.95	10938.11	11045.48	11894.49
Share between Partner State Govts					
Punjab	60 %	5143.24	5564.00	5618.62	6050.49
Haryana	40 %	3428.82	3709.33	3745.74	4033.66
Rajasthan	15.22 %	1538.89	1664.78	1681.12	1810.34
<b>Grand Total Unit No.1 Bhakra Dam Works &amp; Establishment</b>		20888.24	24129.26	24603.12	26659.18
Deduct share debitale to Power Wing		10444.13	12064.63	12301.56	13329.60
Balance Unit No.1 chargeable to Irr. Wing		10444.11	12064.63	12301.56	13329.58
Share between Partner State Govts					
Punjab	60 %	5312.71	6137.03	6257.56	6780.49
Haryana	40 %	3541.81	4091.36	4171.70	4520.33
Rajasthan	15.22 %	1589.59	1836.24	1872.30	2028.76
<b>Unit No.2 Nangal Dam</b>					
<u>Works Portion</u>					
Major Works		3.23	35.00	32.00	
Minor Works					
Maintenance works		22.40	48.30	42.99	59.01
Machinery & Equipment					
Losses written-off					
Suspense			0.02	0.02	0.02
Total works Unit No.2 Nangal Dam		25.63	83.32	75.01	59.03
Deduct Share Debitable to Power Wing		12.82	41.66	37.51	29.52
Balance chargeable to Irrigation Wing		12.82	41.66	37.51	29.52
Share between Partner State Govts					
Punjab	60 %	6.23	20.23	18.21	14.33
Haryana	40 %	4.15	13.49	12.14	9.55
Rajasthan	19.06 %	2.44	7.94	7.15	5.63
<b>Unit No.3 Nangal Hydel Channel</b>					
<u>Works Portion</u>					
Major Works			7.00	4.00	4.00
Minor Works					
Maintenance works		34.52	333.13	80.85	303.83
Machinery & Equipment		12.28	5.65	3.86	0.48
Losses written-off					
Suspense		1.34			
Total works Unit No.3		48.14	345.78	88.71	308.31
Deduct Share debitale to Power Wing		24.07	172.89	44.36	154.16
Balance chargeable to Irrigation Wing		24.07	172.89	44.35	154.15
Add Expenditure exclusive Punjab		179.96	191.00	207.41	218.00
Total balance chargeable to Irrigation Wing		204.03	363.89	251.76	372.15
Shares between the partner State Govts.					
Punjab	60 %	191.65	274.96	228.95	292.86
Haryana	40 %	7.79	55.98	14.36	49.91
Rajasthan	19.06 %	4.59	32.95	8.45	29.38

<u>Direction &amp; Administration</u>		1745.06	1976.39	2068.58	2215.56
<u>Direction &amp; Administration</u>		872.53	988.20	1034.29	1107.78
Deduct Share Debitable to Power Wing		872.53	988.20	1034.29	1107.78
<u>Balance D&amp;A Unit No.3 chargeable to IB</u>					
Share between Partner State Govts					
Punjab	60 %	423.74	479.91	502.29	537.98
Haryana	40 %	282.49	319.94	334.86	358.66
Rajasthan	19.06 %	166.30	188.35	197.14	211.14

<u>Grand Total Unit No.3 Works &amp; Establishment</u>		1793.20	2322.17	2157.29	2523.87
<u>Establishment</u>		896.60	1161.09	1078.65	1261.94
Deduct share debitible to Power Wing		896.60	1161.09	1078.64	1261.93
<u>Balance debitible to Irrigation Wing</u>					
Share between Partner State Govts					
Punjab	60 %	615.39	563.87	523.83	612.85
Haryana	40 %	290.28	375.91	349.22	408.56
Rajasthan	19.06 %	170.89	221.30	205.59	240.52

<u>Unit No.4</u>					
<u>Works Portion</u>					
Major Works			37.35	2.00	97.38
Minor Works					
Maintenance works		1.45	9.60	8.24	3.00
Machinery & Equipment					
Losses written-off					
Suspense					
<u>Total works Unit No.4</u>		1.45	46.95	10.24	100.38
Deduct Share Debitable to Power Wing		1.45	46.95	10.24	100.38
<u>Balance chargeable to Irrigation Wing</u>					

Direction & Administration  
Deduct Share Debitable to Power Wing  
Balance D&A Unit No.4 chargeable to IB

<u>Abstract Of Bhakra Nangal Project</u>					
<u>Works Portion</u>					
Total works Unit No-1		666.33	2253.04	2512.16	2870.19
Total works Unit No-2		25.63	83.32	75.01	59.03
Total works Unit No-3		228.10	536.78	296.12	526.31
Total works Unit No-4		1.45	46.95	10.24	100.38
<u>Grand Total Works Unit No. 1 to 4</u>		921.51	2920.09	2893.53	3555.91
Deduct Share Debitable to Power Wing		371.51	1388.02	1348.19	1719.16
<u>Balance works portion chargeable to Irrigation Wing</u>		550.01	1532.07	1545.35	1836.76
Shares between the partner State Govts.					
Punjab		367.35	868.23	886.10	1037.19
Haryana		124.92	451.49	452.46	546.13
Rajasthan		57.74	212.35	206.78	253.43

<u>DIRECTION AND ADMINISTRATION</u>					
D & A Unit No. 1		20221.91	21876.22	22090.96	23788.99
D & A Unit No. 3		1745.06	1976.39	2068.58	2215.56
<u>Total D &amp; A Unit No. 1 &amp; 3</u>		21966.97	23852.61	24159.54	26004.55
Deduct Share debitible to Power Wing		10983.49	11926.31	12079.77	13002.28
<u>Balance D &amp; A Chargeable to Irrigation Wing</u>		10983.48	11926.31	12079.77	13002.27

Shares between the partner State Govts.					
Punjab		5566.98	6043.91	6120.91	6588.47
Haryana		3711.31	4029.27	4080.60	4392.32
Rajasthan		1705.19	1853.13	1878.26	2021.48

<u>Grand Total Works &amp; Establishment</u>		22888.48	26772.70	27053.07	29560.46
Deduct Share debitible to Power Wing		11355.00	13314.33	13427.96	14721.44
<u>Balance Chargeable to Irrigation Wing</u>		11533.49	13458.38	13625.12	14839.03

Shares between the partner State Govts.					
Punjab		5934.33	6912.14	7007.01	7625.66
Haryana		3836.23	4480.76	4533.06	4938.45
Rajasthan		1762.93	2065.48	2085.04	2274.91

**ABSTRACT OF BUDGET EST. OF ESTABLISHMENT OF BHAKRA DAM (IRRIGATION)**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2013-14	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
₹ in lacs						
1	Salaries of Regular/WC Emp.	251	16161.12	15795.65	17016.96	18378.31
2	Salary of Drivers	259	23.84	28.08	26.53	28.92
3	Empl. Hired on Contract basis	252	210.33	201.20	155.40	176.66
40	Conveyance Allowance	253	171.26	190.38	180.38	189.40
5	Edu. Expn. Of DAV School	254	251.48	330.50	319.71	347.66
6	Wages of Daily Rated empy.	255	0.00	0.00	0.05	0.06
7	Exp. On Mtc. Of Jeeps & Cars	256	51.48	49.70	51.00	55.70
8	TA.	257	102.38	107.91	107.91	109.50
9	LTC.	258	33.19	30.23	30.23	30.23
10	Computer.	260	4.69	7.75	7.75	8.53
11	Rent.	261	0.00	0.00	0.00	0.00
12	Purchase of Vehicle.	262	32.06	15.00	17.00	20.00
13	Insurance	263	0.50	1.14	2.14	2.50
14	Dispensaries	264	1.50	1.64	1.64	1.68
15	Medical charges.	266	172.86	208.73	208.73	229.60
16	Legal Services.	267	17.88	22.90	22.90	23.89
17	Printing & Stationery.	269	32.73	68.66	37.64	41.40
18	Postage & Telegram	270	3.31	3.78	3.50	3.60
19	Telephone & Internet.	271	37.06	40.68	40.68	44.75
20	Electricity & Water.	272	75.31	50.39	80.55	85.00
21	Books & Periodical.	273	2.13	1.60	2.63	3.02
22	Advertisement.	274	107.86	25.78	91.65	94.39
23	Hot & Cold Weather charges.	275	1.34	1.70	1.70	1.98
24	Liveries.	276	19.76	13.16	21.74	23.15
25	Bank Collection charges.	277	0.00	0.00	0.00	0.00
26	Furniture.	278	0.84	2.75	30.40	39.91
27	Typewriters & Photostat Mach.	279	2.90	3.85	3.85	4.25
28	Misc. Office Expenses.	280	233.97	169.90	230.97	243.87
29	Material & Supply of Hospital.	281	11.03	22.21	25.03	26.50
30	Medicine.	283	14.87	35.65	30.87	32.86
31	Sports Activities.	286	1.26	4.00	6.20	7.20
32	Training & Seminars.	288	21.72	15.80	35.80	39.38
33	Entertainment catering etc.	289	6.55	6.10	7.07	7.93
34	Stipend	300	10.48	8.50	12.38	12.55
35	Scholarship	301	0.99	1.55	1.49	1.62
36	Pension.	302	3325.29	3814.59	3814.59	4014.00
37	Commutation of Pension.	303	77.53	497.71	100.53	120.30
38	EBA.	304	0.00	0.00	0.00	0.00
39	Gratuity & DCRG.	305	322.60	734.50	274.29	382.29
40	Leave Encashment.	307	328.77	752.99	594.68	552.99
41	Security Staff.	308	114.26	556.50	556.50	609.98
42	Awards & Prizes.	312	1.15	23.45	2.47	2.99
43	HBA.	313	-23.22	0.00	0.00	0.00
44	Conveyance/Vehicles advance.	314	-0.09	0.00	0.00	0.00
45	Subscription to National & International Bodies	331	2.00	6.00	4.00	6.00
	Total		21966.97	23852.61	24159.54	26004.55

*SR*

-147-

List of Major Works provided in the Revised Budget Estimate for the year 2014-15 and Budget Estimate for the year 2015-16 Under Head 2701-Major Irrigation-I, Bhakra Dam, Nangal.

(Rs. In lacs)						
Sr. No.	Name of Work.	Est. cost	Sanction No. & date	Original Budget estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
<b>Major Works (2701 01 129 01 701)</b>						
1	Replacement of 1 No. old Multistage Horizontal pump with New Multistage Centrifugal Pump at EL-1433' Bhakra.	8.00	No. 1202-05/Est. dated 11.01.2013	0.00	8.00	0.00
2	Replacement of 1 No. Jaw Crusher for crushing plant at Bhakra	10.00	No. 15784-89 dt. 13.06.2014	0.00	8.00	0.00
3	Replacement of 2 No. Old Horizontal Multistage centrifugal pump installed at Village Neilla for Neilla Galthai water supply.	8.50	No. 30656-61 dt. 14.11.2011.	0.00	8.50	0.00
4	Inspection of under water trash rack of penstock and river outlets and up stream face of Bhakra Dam using ROV.	11.18	No. 2677-81 dated 21.01.2014	11.18	10.00	0.00
5	Major overhauling of Engine of Voltas Omega crane, C-71 of 45 M.T. Capacity.	5.70	Memo under process	0.00	5.00	0.70
6	Replacement of crawling system of chain dozer A-64	31.50	Under Process	0.00	0.00	31.50
7	Uplifting of Railway Track at BBMB Nangal	15.25	Under Process	0.00	0.00	15.25
8	Replacement of Old Electric stationery Air Compressor by New One at RL-1400 at Bhakra Dam.	56.20	No.30656-61 dated 14.11.2011	0.00	2.00	54.20
9	Memo for conversion of technical record in e-format.	17.10.	Work proposed to be deffered	17.10	0.00	0.00
10	Replacement of C.G.I.sheet of 5 No. Panagarh sheds in C/Store	10.27	No. 1380-82 dt. 24.1.2011	10.27	9.00	1.27
11	Const. of boundary wall around propsed indoor stadium at Nangal.	28.00	Memo withdrawn	28.00	0.00	0.00
12	Construction of check posts and police barracks at various sites in Bhakra Dam area for Security staff	48.20	No. 3889-91 dt. 08.03.2013	23.00	31.00	1.50
13	Renovation of 28 Nos. JW Type quarter in Olinda Colony to accommodate security staff at Bhakra	12.00	No. 1976-78 dt. 04.02.2013	5.00	12.00	0.00

R

-148-



14	Raising of walls at various reaches along Bhakra Nangal road protection from slippage of hills sides.	26.04	Work under Action plan 2014-15	20.00	20.00	6.04
15	Const. of cement concrete path alongwith drainage system & protection of hill slopes to A) Timber rope way B) Comperssor house RL-1400 at Bhakra Dam.	23.00	Under Process	0.00	0.00	23.00
16	Dam Break Analysis of Bhakra dam from N.I.H. Roorkee	26.47	Under Process	26.47	0.00	26.47
17	Const. of New Barrack near right side Watch Tower & Constuction of adjoining room for rapid sand filters at Bhakra Dam.	14.00	Under Process	0.00	0.00	14.00
18	Protection of Slopes in vicinity of timber ropeway by providing stone wire crates	7.34	No. 18048 dt. 26.06.2014	10.00	5.00	2.34
19	Refurbishing of catering & dining arrangment of BBMB Canteen at RL-1700 L/S of Bhakra Dam	5.35	No. 13712-14 dated 06.08.2014.	5.00	5.00	0.00
20	Overhauling of 2 No's Volvo Penta TAMD 41-A Engine of jet Boat	32.00	Under Process	0.00	0.00	32.00
21	Furnishing of new PRO Office bldg.	7.60	No. 4098-102 dt. 05.02.13	7.60	0.00	7.60
22	Replacement of 3 No. 315 KVA & 2 No. 100-11/0.440 KVA distribution T/f for use of BH. Elec. Divin. Nangal.	12.00	No. 30656-61 Dt 14.11.2011	0.00	12.00	0.00
23	Providing & Installation of 1 No high mast light at Right side top of Bhakra Dam	5.82	No. 6783-85 dt 18.04.2013	0.00	5.52	0.00
24	Replacement of old telephone Cable of communication System at Bhakra Dam.	8.47	No. 15846-48 dated 10.9.2013	0.00	7.47	1.00
25	Replacement of C.G.I. sheds roofing excluding the cost of purins, rafters and truses and Dismenting of 4 No. sheds complete.	16.90	Under Process	0.00	0.00	16.90
26	Renovation of 170 No. Quarters C-type two room Quarter & D.R. Class-IV quarter in FF & JJ Block at Nangal Township (IInd phase)	296.00	No. 5761-63 dt.06.04.09	50.00	50.00	100.00

ER

-149-

27	Construction of 500 No. quarters (double story for employees of BBMB in place of old quarters to be dismantled in A to C and G Block) at Nangal.	3024.00	No. 3436-41 dt.24.05.2012	300.00	400.00	740.00
28	Providing Marble tiles on walls in Hall and Kota stone flooring on back side kitchen and court yard in BBMB Community Hall at Nangal Township	13.83	No. 11057-59 dated 02.07.2014.	15.04	12.00	1.83
29	Providing Kota stone floor tiles in 20 No. class rooms and corridor and renovation of Bath rooms of DAV Public School Nangal Township	31.56	Under Process	31.56	5.00	26.56
30	Purchase of New Dumper placer, fully built and equipped driver cabin, without bin fitted, with 7 No 7.50X16 PR Nylon tyres.	11.00	No.10681-86 dated 16.04.2014.	11.00	10.00	1.00
31	Providing and laying cement concrete pucca approach roads in officers bungalows at Nangal Township	16.85	No.10681-86 dt. 16.04.2014.	15.00	6.85	10.00
32	Providing boundary walls around RVR Bungalows (11 to 22 RVR) at Nangal Township	13.76	No.10681-86 dt. 16.04.2014.	13.44	5.76	8.00
33	Remodeling of open house drains in various Blocks at Nangal Township.	10.00	Under Process	10.00	0.00	10.00
34	Providing cement concrete lanes and laying in Q, R and S Blocks at Nangal Township	12.20	No.10681-86 dt. 16.04.2014.	12.24	5.00	7.20
35	Constructing 30 flush type latrines cum bath rooms in the servant room attached with bungalows at Nangal Township.	30.00	Under Process	0.00	0.00	30.00
36	Special Repair of quarters of H-Block and P - Block in Dobetta Colony at Nangal	25.00	Under Process	0.00	0.00	25.00
37	Replacement of existing flooring in the front premises of BBMB Hospital, Nangal.	8.00	Under Process	0.00	0.00	8.00
38	Renovation modification and improvement in Public Model Shed near P.R.O. Office.	46.00	No. 34710-13 dt. 11.12.2012.	0.00	7.10	0.00
39	Construction of new PRO Office and lounge with parking and laboratory block in B&B Design Directorate complex at Bh. Road, Nangal Township.	25.50	No. 32522-25 dt. 23.11.2012	25.00	5.00	20.50

PR

-150-

40	Construction of Indoor stadium at Nangal Town Ship	275.00	No.1771-73/ 43 dt.26.03.14	210.00	100.00	175.00
41	Renovation of 24 Nos Regulation Beldar quarters at Nangal Dam, BBMB, Nangal Township.	33.32	No. 20132-34 dt. 25/11/2013	35.00	32.00	0.00
42	Renovation of 28 No quarters Regulation Belder at Ganguwal Colony.	42.73	Memo approved	12.35	1.00	41.73
43	Renovation of 36 Nos LIG/DS quarters at canal colony BBMB kotla	56.65	Memo approved	25.00	1.00	55.65
44	Providing 35 No. Garbage bin in BBMB colony at Nangal.	25.00	Under Process	0.00	0.00	25.00
45	Const. of 156 No. Toilet in various school of Distt. Roopnagar.	191.40	Under Process	0.00	50.00	141.40
46	HP-II works Pending liability		Under Process	0.00	135.00	70.00

ER

**List of Machinery & Equipment Works provided in Revised Budget Estimate for the year 2014-15 & Budget Estimate for the year 2015-16 under Head 2701-Major Irrigation, Bhakra Dam, Nangal.**

(Rs. in lacs)						
Sr. No.	Name of Work	Est. Cost	Sanction No. & date	Original Budget Estiamte 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
<b>M&amp;E (2701 01 129 01 704 )</b>						
1	Replacement of 1 No. Old Mini Bus B-33 with one No. New Tata Mini Bus 19 seater	9.00	No. 10681-86 dated 16.04.2014	9.00	9.00	0.00
2	Replacement of Dehumidifying Plant BH. at RL-1328	60.00	No. 15784-89 Dt 13.6.2013	0.00	50.00	10.00
3	Replacement of one No. Old Truck, R-197 with one No. New Mini Truck, Tata 407	7.00	No. 3055 Dt 05.02.2013	7.00	7.00	0.00
4	Replacement of Two No. Old Car CH-01- GI-0255 and CH-01-GI-1489 with Two No. Tata Indigo diesel	11.07	Memo approved	0.00	11.07	0.00
5	Repacement of 2 Nos old Tata Tippers with New ones. (One to purchased in 2014-15,& One in 2015-16.	34.70	No.4898-102 Dt 05.02.2013	17.35	17.35	17.35
6	Procurement of 2 No. Vehicles for Security Officers i.e. One Tavera (A.C) & 1 No. Mohindera Bolero Non A.C.	13.00	Memo under process	0.00	6.00	7.00
7	Replacement of 1 No. Tata Pick-up with Double Cabin Mohindera Pick-up.	7.75	Under Process	0.00	0.00	7.75
8	Purchase of Two No. TATA LPT 1613/42 Fire water tender 1000 gallon capacity in replacement of One No. water tenders PAT- 9172 TATA -- Type B 800 gallon capacity for fire brigade at Bhakra Nangal project.	59.25	Work approved in Action Plan for the year 2013-14 vide letter dated 05.02.2013	30.00	28.50	19.20
9	Memo for designing, providing installation and commissioning of intregrated security and surveillance system for Bhakra Dam.	340.00	Memo submitted for approval of competent authority.	200.00	200.00	140.00

*R.*

-152-

10	Purchase of 2 Nos. water Mist Fire Fighting system High Pressure with Accessories 10 ltr. Capacity (compressed air foam system)	5.64	No. 10207-09/BBMB/W/E-25/2014-15 dt. 17.06.2014	5.62	5.64	0.00
11	Replacement of Two Nos. Pumps in Olinda Colony at Bhakra Dam.	5.00	No. 10681-86 dated 16.04.2014.	5.00	5.00	0.00
12	Providing TVs, DTH Antennas, Water coolers, Dining tables, Dining Chairs, Almirahs, Desert coolers, Office chairs (Plastic), Office tables, Office chairs (Superior) to security staff at Bhakra.	8.00	Under Process	0.00	0.00	8.00
13	Purchase of fire equipment polymer hosepipes, float pump, portable fire pump, Breathing Apparatuses, BA set compressor.	13.50	Under Process	0.00	0.00	13.50
14	Obtaining Echo Sounder in Silt Survey Sub Division, Nangal	24.50	letter No. 24871-74 dt. 26.08.2011	0.00	23.00	1.50
15	Purchase of Diving Dresses/Equipments required for Diving Team	26.35	letter No. 497-99/BBMB /4BD dt. 10-1-2012	0.00	20.00	6.35
16	Purchase of 2 Nos underwater digital video cameras with complete accessories and 2 Nos under water digital still cameras	12.80	No. 9018-22/ B-5/Estt-325/3 Irr dt. 17.4.2012	6.40	6.40	6.40
17	Replacement of 8 No's Chain Pulley blocks of 25 ton capacity.	38.33	Memo under process	0.00	0.00	38.33
18	Erection of 1 No. 315 KVA sub station for improvement of distribution system at Nangal Township	6.60	Approved in Action plan for 2013-14.	0.00	6.60	0.00
19	Replacement of 1 No. 500 KVA 11 KV/0.433 KV distribution transformer at Nangal	5.50	No. 10681-86 dated 16.04.14.	5.50	5.50	0.00

PR

-153-

Statement Showing the details of Budget Estimates under the Major Head

(e) Economic Services (d) Irrigation flood control 2700 M

Head of Account.		Actual expenditure 2013-14			
<b>Beas Project BBMB Portion</b>					
<b>Unit No.1 BSL</b>					
<b>Works Portion</b>					
Major Works		312.14	100		
Minor Works		0.39			
Maintenance works		755.39	1014.86		
Machinery & Equipment		34.95	220.54	145.00	
Losses written-off					
Suspense		255.69	6.00	6.00	6.00
<b>Total works Unit No.1 BSL</b>		<b>1358.56</b>	<b>2247.54</b>	<b>2214.72</b>	<b>2407.89</b>
Deduct Share Debitable to Power Wing		1277.05	2112.69	2081.84	2263.42
<b>Balance chargeable to Irrigation Wing</b>		<b>81.51</b>	<b>134.85</b>	<b>132.88</b>	<b>144.47</b>
<b>Share between Partner State Govts</b>					
Punjab	51 %	41.57	68.77	67.77	73.68
Haryana	34 %	27.71	45.85	45.18	49.12
Rajasthan	15 %	12.23	20.23	19.93	21.67
<b>Direction &amp; Administration</b>					
<b>Direction &amp; Administration BSL</b>		<b>13368.07</b>	<b>13204.42</b>	<b>13912.01</b>	<b>14722.27</b>
Deduct Share Debitable to Power Wing		12565.99	12412.15	13077.29	13838.93
<b>Balance D&amp;A chargeable to Irrigation Wing</b>		<b>802.08</b>	<b>792.27</b>	<b>834.72</b>	<b>883.34</b>
<b>Share between Partner State Govts</b>					
Punjab	51 %	409.06	404.06	425.71	450.50
Haryana	34 %	272.71	269.37	283.80	300.34
Rajasthan	15 %	120.31	118.84	125.21	132.50
<b>Grand Total Unit No.1 Beas Dam</b>					
<b>Establishment and works</b>		<b>14726.63</b>	<b>15451.96</b>	<b>16126.73</b>	<b>17130.16</b>
Deduct share debitale to Power Wing		13843.04	14524.84	15159.13	16102.35
Balance Unit No.1 chargeable to Irr. Wing		883.59	927.12	967.60	1027.81
Add Share Transferred from Power Wing		308.24	383.25	430.97	595.88
<b>Grand Total Unit No.1 BSL Chargeable to Irr. Wing</b>		<b>1191.83</b>	<b>1310.37</b>	<b>1398.57</b>	<b>1623.69</b>
<b>Share between Partner State Govts</b>					
Punjab	51 %	607.84	668.29	713.27	828.08
Haryana	34 %	405.22	445.52	475.51	552.06
Rajasthan	15 %	178.77	196.56	209.79	243.55
<b>Unit No.2 Pong Dam Talwara</b>					
<b>Works Portion</b>					
Major Works		193.25	111.50	97.33	146.00
Minor Works					
Maintenance works		418.73	499.61	449.27	505.60
Machinery & Equipment		43.24	186.15	245.36	170.18
Losses written-off					
Suspense		24.80	8.45	18.25	21.50
<b>Total works Unit No.2 Pong Dam</b>		<b>680.02</b>	<b>805.71</b>	<b>810.21</b>	<b>843.28</b>
Deduct Share Debitable to Power Wing		159.80	189.34	190.40	198.17
<b>Balance chargeable to Irrigation Wing</b>		<b>520.22</b>	<b>616.37</b>	<b>619.81</b>	<b>645.11</b>
<b>Share between Partner State Govts</b>					
Punjab	24.9 %	129.53	153.47	154.33	160.63
Haryana	16.6 %	86.36	102.32	102.89	107.09
Rajasthan	58.5 %	304.33	360.58	362.59	377.39
<b>Direction &amp; Administration Pong Dam</b>					
<b>Direction &amp; Administration BSL</b>		<b>9711.56</b>	<b>10654.43</b>	<b>10369.55</b>	<b>11404.43</b>
Deduct Share Debitable to Power Wing		2282.22	2503.79	2436.84	2680.04
<b>Balance D&amp;A Unit No.2 Pong Dam chargeable to Irrigation Wing</b>		<b>7429.34</b>	<b>8150.64</b>	<b>7932.71</b>	<b>8724.39</b>
<b>Share between Partner State Govts</b>					
Punjab	24.9 %	1849.91	2029.51	1975.24	2172.37
Haryana	16.6 %	1233.27	1353.01	1316.83	1448.25
Rajasthan	58.5 %	4346.16	4768.12	4640.64	5103.77
<b>Total Unit No.2 Works &amp; Establishment</b>					
<b>Total Unit No.2 Works &amp; Establishment</b>		<b>10391.58</b>	<b>11460.14</b>	<b>11179.76</b>	<b>12247.71</b>
Deduct share debitale to Power Wing		2442.02	2693.13	2627.24	2878.21

11

-154-

<u>Balance debitale to Irrigation Wing</u>		7949.56	8767.01	8552.52	9369.50
Add Share Transferred from Power Wing		2293.85	3590.39	3371.83	3258.95
<u>Grand Total Unit No.2 Pong Power Plant Chargeable to Irrigation Wing</u>		10243.41	12357.40	11924.35	12628.45
	Share between Partner State Govts				
Punjab	24.9 %	2550.61	3076.99	2969.17	3144.49
Haryana	16.6 %	1700.41	2051.33	1979.44	2096.32
Rajasthan	58.5 %	5992.39	7229.08	6975.74	7387.64
 Abstract Of Beas Project					
Total works Unit No-1 BSL		1358.56	2247.54	2214.72	2407.89
Total works Unit No-2 Pong Dam		680.02	805.71	810.21	843.28
Grand Total Works Unit No. 1 & 2		2038.58	3053.25	3024.93	3251.17
Deduct Share Debitale to Power Wing		1436.85	2302.03	2272.24	2461.59
Balance works portion chargeable to Irrigation Wing		601.73	751.22	752.69	789.58
Total D & A Unit No-1 BSL		13368.07	13204.42	13912.01	14722.27
Total D & A Unit No-2 Pong Dam, Talwara		9711.56	10654.43	10369.55	11404.43
Total Unit No. 1 & 2, (D&A)		23079.63	23858.85	24281.56	26126.70
<u>Deduct Share Debitale to Power Wing</u>		14848.21	14915.94	15514.13	16518.97
Balance D&A Beas Project chargeable to Irrigation Wing		8231.42	8942.91	8767.43	9607.73
Balance works & D&A Beas Project chargeable to Irrigation Wing		8833.15	9694.13	9520.12	10397.31
<u>Add Share Unit No. 1&amp;2 transferred from Power Wing</u>		2602.09	3973.64	3802.80	3854.83
<u>Grand Total Beas Project Chargeable to Irrigation Wing</u>		11435.24	13667.77	13322.92	14252.14
	Shares between the partner State Govts.				
Punjab		3158.45	3745.28	3682.44	3972.57
Haryana		2105.63	2496.85	2454.95	2648.38
Rajasthan		6171.16	7425.64	7185.53	7631.19

BR

**ABSTRACT OF BUDGET ESTIMATES OF BEAS PROJECT (IRRI.) UNIT-I, BSL, S. NAGAR**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2013-14	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
---------	---------------	------	-------------------------	----------------------------------	---------------------------------	----------------------------------

₹ in lacs

1	Salaries of Regular/WC Empl.	251	9213.86	8584.84	9354.45	10009.26
2	Empl. Hired on Contract basis	252	84.29	83.66	85.38	89.64
3	Conveyance Allowance	253	86.40	106.24	106.24	108.24
4	Edu. Expn. Of DAV School	254	0.00	0.00	0.00	0.00
5	Wages of Daily Rated Empl.	255	0.00	0.45	0.45	0.50
6	TA.	257	41.93	42.30	42.30	44.42
7	LTC.	258	17.18	11.17	13.24	14.24
8	Salaries of Drivers	259	29.31	32.30	32.30	35.53
9	Computer.	260	4.07	6.20	5.20	5.50
10	Rent.	261	0.00	0.00	0.00	0.00
11	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
12	Insurance	263	0.00	0.00	0.00	0.00
13	Dispensaries	264	0.00	0.00	0.00	0.00
14	Medical charges.	266	92.34	97.50	97.50	105.37
15	Legal Services.	267	9.84	11.40	11.40	11.90
16	Printing & Stationery.	269	16.53	12.50	12.50	13.12
17	Postage & Telegram.	270	1.01	1.42	1.13	1.25
18	Telephone & Internet.	271	7.20	7.80	7.72	8.11
19	Electricity & Water.	272	9.41	12.47	11.85	12.85
20	Books & Periodical.	273	0.81	0.55	0.55	0.55
21	Advertisement.	274	0.18	0.55	0.55	0.55
22	Hot & Cold Weather charges.	275	0.40	0.55	0.55	0.55
23	Liveries.	276	10.20	9.59	11.17	11.52
24	Bank Collection charges.	277	0.03	0.00	0.00	0.00
25	Furniture.	278	1.01	1.75	1.75	1.95
26	Typewriters & Photostat Mach.	279	2.02	4.25	4.25	4.75
27	Misc. Office Expenses.	280	50.99	30.60	38.20	41.35
28	Material & Supply of Hospital.	281	5.29	5.00	5.00	5.00
29	Medicine.	283	4.49	6.52	9.52	9.52
30	Sports Activities.	286	0.42	1.90	2.35	2.35
31	Training & Seminars.	288	4.44	7.61	8.01	8.54
32	Entertainment catering etc.	289	0.36	0.95	0.65	0.80
33	Stipend	300	2.44	1.94	4.07	4.50
34	Scholarship	301	0.16	1.05	0.45	0.50
35	Pension.	302	2869.28	2949.00	3113.72	3333.00
36	Commutation of Pension.	303	32.95	245.01	33.00	40.01
37	EBA.	304	0.00	0.06	0.00	0.00
38	Gratuity & DCRG.	305	166.60	299.75	175.50	195.50
39	Leave Encashment.	307	178.97	255.75	180.02	201.00
40	Security Staff.	308	424.82	370.00	540.68	400.00
41	Awards & Prizes.	312	0.32	1.79	0.36	0.40
42	HBA.	313	-1.25	0.00	0.00	0.00
43	Conveyance/Vehicles advance.	314	-0.23	0.00	0.00	0.00
	<b>Total</b>		<b>13368.07</b>	<b>13204.42</b>	<b>13912.01</b>	<b>14722.27</b>

*[Handwritten Signature]*



**ABSTRACT OF BUDGET EST. OF ESTABLISHMENT OF BEAS PROJECT (IRRI.) UNIT-II,  
PONG DAM, TALWARA.**

Sr. No.	DETAILED HEAD	CODE	Actual Exp. for 2013-14	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
₹ in lacs						
1	Salaries of Regular/WC Emp.	251	6438.85	6194.37	6600.95	7129.03
2	Salary of Drivers	259	72.17	83.41	90.31	95.70
3	Empl. Hired on Contract basis	252	0.69	3.23	15.42	15.92
4	Conveyance Allowance	253	77.82	87.12	89.24	93.70
5	Edu. Expn. Of DAV School	254	167.84	195.32	173.00	190.00
6	Wages of Daily Rated empy.	255	0.26	0.90	0.30	0.33
8	TA.	257	53.47	52.62	55.47	61.02
9	LTC.	258	14.69	6.25	7.25	10.50
10	Computer.	260	0.63	2.92	2.92	3.32
11	Rent.	261	0.00	0.00	0.00	0.00
12	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
13	Insurance	263	0.00	0.00	0.00	0.00
14	Dispensaries	264	0.00	0.00	0.00	0.00
15	Medical charges.	266	75.66	90.47	87.47	96.22
16	Legal Services.	267	3.56	3.75	3.75	4.09
17	Printing & Stationery.	269	15.95	14.50	17.45	18.32
18	Postage & Telegram.	270	0.48	0.40	0.50	0.53
19	Telephone & Internet.	271	2.19	3.99	3.50	3.95
20	Electricity & Water.	272	2.74	4.01	4.01	4.99
21	Books & Periodical.	273	0.32	0.33	0.33	0.36
22	Advertisement.	274	0.00	0.55	0.50	0.53
23	Hot & Cold Weather charges.	275	0.27	0.65	0.50	0.53
24	Liveries.	276	8.26	7.83	8.76	9.63
25	Bank Collection charges.	277	0.00	0.00	0.00	0.00
26	Furniture.	278	0.23	0.60	0.55	0.85
27	Typewriters & Photostat Mach	279	2.70	2.85	3.01	4.05
28	Misc. Office Expenses.	280	18.84	17.65	20.15	22.15
29	Material & Supply of Hospital.	281	0.89	0.80	3.05	3.00
30	Medicine.	283	2.77	5.80	12.80	13.50
31	Sports Activities.	286	0.00	1.20	1.20	1.25
32	Training & Seminars.	288	3.53	6.19	6.60	7.12
33	Entertainment catering etc.	289	1.61	0.33	1.92	2.13
34	Stipend	300	0.00	0.00	0.00	0.20
35	Scholarship	301	0.67	0.65	0.75	1.01
36	Pension.	302	2196.03	2833.00	2415.63	2757.19
37	Commutation of Pension.	303	30.11	158.50	64.66	77.59
38	EBA.	304	0.00	0.00	0.00	0.00
39	Gratuity & DCRG.	305	97.98	250.35	160.95	192.41
40	Leave Encashment.	307	145.29	304.00	201.18	236.18
41	Security Staff.	308	274.17	319.01	314.01	345.58
42	Awards & Prizes.	312	2.25	0.88	1.46	1.55
43	HBA.	313	-1.36	0.00	0.00	0.00
44	Conveyance/Vehicles advance.	314	0.00	0.00	0.00	0.00
	<b>Total</b>		<b>9711.56</b>	<b>10654.43</b>	<b>10369.55</b>	<b>11404.43</b>

*SP*

157

**List of Major Works provided in the Revised Budget Estimate for the year 2014-15 and Budget Estimate for the year 2015-16 under Head 2700 Major Irrigation-III Beas Project Unit-I, BSL, Sundernagar.**

(Rs. In lacs)						
Sr. No.	Name of work.	Est. Cost.	Sanction No. & Date.	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
<b>MAJOR WORKS (2701-01-130-01-701)</b>						
1	Spl. repair/overhauling of 1 No. American Moto Crane 47.5 Cap.	15.00	Approved in Action Plan 14-15	5.00	0.00	15.00
2	Renovation of memorial at Dam Site Pandoh	16.00	No. 1503-06 dt. 25.1.12	15.00	20.00	0.00
3	Overhauling CL -79 american crane at pandoh dam	12.00	Approved in Action Plan 2012-13	0.00	13.00	0.00
4	Replacement of 11 KV OCNs (2 Nos) with new VCBs (2 Nos) for main incomer 1 & 2 at Control Room Pandoh Dam.	18.00	Approved in Action Plan 13-14.	0.00	18.00	0.00
5	Replacement of 170 HP motor with pump & all accessories starter & valve	12.00	Approved in action plan 2014-15	5.00	1.00	11.00
6	Replacement of 1 No. 150 HP Motor with pump and all accessories i.e. starter, cable etc. for Water works Pandoh Dam.	12.00	Proposed Action plan 2015.16.	0.00	0.00	12.00
7	Construction of C:C road from BSL School to New Colony Pandoh.	15.00	Approved in Action Plan 12-13	0.00	13.00	0.00
8	Replacment of sewerage line from Gurudwara to STP	42.00	Aproved in Action Plan 12-13	20.00	2.00	40.00
9	Renovation Multipupose Hall at BBMB Colony Pandoh	25.00	Approved in Action Plan 2013-14	5.00	5.00	15.00
10	Renovation of 10 No. P-3 type houses at Jaral colony Pandoh	16.00	memo sanctioned by Board Office.	0.00	2.00	14.00
11	Renovation of P-3 type houses 10 No quarters at BBMB colony, Pandoh (under Phase-II)	35.00	Proposed Action plan 15-16	0.00	0.00	15.00

*Handwritten signature*

158

12	Lying of pre-mix carpet on main central road from Sukat Sadan to T-Junction on Bilaspur Mandi Road, Circular road No.I from Hospital chowk to Workshop Gate-A and Link Road with providing of sign-board and speed breakers at sundernagar.	98.00	No.16016-19 dt.05.09.13	40.00	0.00	0.00
13	Providing /Fitting and commissioning of Two No. 12KV vacum circuit breaker suitable for existing HT panel installed at BCW complex.	14.95	No. 4215-18 dt 7.3.2013	0.00	17.00	0.00
14	Restoration of Kansa aqueduct and chail aqueduct of Sundernagar hydel Channel.	20.57	No 22977-81 dt 23.12.2013	19.00	3.00	17.00
15	Restoration of Baggi aqueduct at RD 1780mtr Sundernagar Hydel Channel	27.44	No.13451-54 dt 26.7.2013	10.00	5.00	20.00
16	Supply erecting testing & commissioning of two No electric division submersible pumps with motor & other related accessory with automatic control system at Baggi control works gallery. Suitable for 125 feet head having discharge capacity 5000 lt/per minute.	25.00	No 6179/BSL dt 8.5.2014	24.50	25.00	0.00
17	Providing PCC Block pitching on L/s. and R/s. of SNHC inner slop near Dhanoutu Bridge at RD 9915 to 9967 and 9980 to 10032 RD 11729.31 mtr. To 11800.	27.81	Est. under sanction.2014-15	10.00	5.00	20.00
18	Replacement of old air compressed pipe line from compressor room to BCW complex by 3" dia GI pipe heavy duty with complete fitting.	15.00	Memo under process	10.00	1.00	14.00
19	Re-construction of side drain and a falls along SNHC 1524to 1924, 4400 to 4600 and 10547 to 11343	23.61	No.3438-41 dt.22.2.2012	5.00	20.00	0.00

20	Const. of new W beams parapets on left side of Sundernagar Hydel Channel from Baggi to Tail control by replacing the existing dowels.	95.00	Memo under process	10.00	10.00	85.00
21	Providing PCC Block pitching on L/s. of Sundernagar Hydel Channel on Ghungal Aqueduct.	15.00	No. 12300-03 dt 10.7.2013	5.00	15.00	0.00
22	Laying premix carpet on the existing road on the bank of SHC and balacing reservior (r/s from RdLaying premix carpet on the existing road on the bank of Sundernagar Hydel Channel and balancing reservoir (r/s from RD 42.06 mtr. To 1180.19 mtrs.) And L/S from Rd1180.90 (DR bridge at Baggi) to 9968.18 mtrs. (AR bridge Dhanotu) of Hydel Channel and L.S of BR from RD 0 to 2100 mtr upto field offices at pung.	60.00	No. 13816-19 dt 2.8.2013	59.00	5.00	55.00
23	Proc. of 1 No. 125 HP VT pump in water works BBMB Colony Sundernagar along with 1 HP centrifugal mono block pump in water storage tank.	15.00	No. 15680-83, dt. 18.09.12	0.00	15.00	0.00
24	Construction of Store room boundary wall with gate for BBMB fire Station Sundernagar.	13.50	No. 5106-09, dt. 20.03.13	5.00	14.00	0.00
25	Extension of ground providing boundary wall and re-construction of existing kitchen in BSL Staff Club at Sundernagar.	35.00	No. 2284-87, dt. 10.12.203	10.00	35.49	0.00
26	Construction of boundary wall around S-2 type houses (Phase - III & IV cum-play ground) at New Colony BBMB Sundernagar.	37.73	No. 11078-81, dt. 25.06.2013	15.00	- 21.50	0.00
27	Renovation of Preparaory Model School at Sundernagar	30.00	No. 16817-20, dt. 16.09.13	20.00	30.00	0.00

SR

-160-

28	Renovation/providing modular furniture in central office complex and Xen's rooms (E&W/shop, HC&BG, BRSC&PD, PS&D, HRD, Water Regulation)	50.00	No. 17741-44, dt. 26.09.13	25.00	44.00	0.00
29	Renovation of BSL Sr. Sec. School, Sundernagar & development of playground.	80.00	No. 11821-24, dt. 24.07.14	10.00	10.00	20.00
30	Renovation of 5 Nos. S-5 type house and 10 nos. S-4 type houses, 15 no. S-3 type houses & 25 no S-2 type houses in BBMB Colony Sundernagar (HP)	120.00	Under Process	25.00	118.00	0.00
31	Construction of boundary wall around over head tank in S-1 area and pump house in new colony area alongwith construct of 2 nos. gentry structure for submersible pump sets in new colony and water works at BBMB Colony Sundernagar (HP)	20.00	No. 13502-05, dt. 26.07.13	5.00	19.00	0.00
32	Replacing of ACSR 11 KV double feeder from Sundernagar to Baggi with arial bunched cable 11 KV	<del>400.00</del>	Action Plan 2013-14	50.00	1.00	0.00
33	Construction of retaining walls including parapet walls in critical sections along Main, Circular and link roads of BBMB Colony at Sundernagar	25.00	Under Process	5.00	1.00	24.00
34	Renovation of Sr. Sec. Model School, Sundernagar (Replacement of wood work i.e. Doors & Windows, door & steel section, scooter shed, construction of basket ball ground etc.)	35.00	No. 9600-03, dt. 23.06.14	10.00	5.00	20.00

*Handwritten signature*

-161-

35	Renovation of Model room, & waiting room for Drivers and Security Personal in Suket Sadan including construction of toilet.	12.00	No. 22841-44, dt. 20.12.13	10.00	11.00	1.00
36	Development of garbage disposal site for colony at SNR. by Municipal Committee SNR	39.76	Under sanction	10.00	21.00	0.00
37	Renovation of Hospital Building (Internal Works) in BBMB Hospital Sundernagar	40.00	No. 19738-39, dt. 01.11.3	2.00	43.00	2.00
38	Payment of Service Tax of recover bills for the year 2007-08, 2008-09, 2009-10 & 2010-11 in respect of Seismological Observatories Shimla & Sundernagar	17.09	No.9584/BSL/T-3, dt. 23.06.14	0.00	17.10	0.00
39	Renovation of 30 Nos. S-2, 10 Nos. S-3, 3 Nos. S-4 and 2 Nos. S-5 type houses at BSL Colony Sundernagar	150.00	Proposed in Action Plan 2015-16	0.00	0.00	50.00
40	Replacement of CC flooring with vitrified tile flooring in 4 Nos. S-6 type houses along with providing Kotah stone flooring in courtyard and porch.	20.00	Proposed in Action Plan 2015-16	0.00	0.00	20.00
41	Protection and strengthening of 2 No. Culverts i.e. near Cinema Hall and Luxmi Naryan Mandir in BBMB Colony at Sundernagar	25.00	Proposed in Action Plan 2015-16	5.00	0.00	15.00
42	Renovation of Central office building at BBMB Sundernagar (Phase-II)	47.00	Proposed Action Plan 2015-16	0.00	0.00	20.00
43	Construction of out fall Nallah & protection of side slopes towards Ghanga Khad in the new colony area	22.00	Proposed in Action Plan 2014-15	5.00	0.00	22.00
44	Renovation of Police Barracks at Sundernagar	35.00	Proposed Action Plan 2015-16	5.00	0.00	20.00
45	Procurement of One No. 120 HP V.T. Pump.	15.00	Proposed in Action Plan 2015-16	1.00	0.00	15.00

46	Replacement of Existing 7 No's Oil Circuit Breaker (2 No's Outgoing) with latest ACB for DPH, BBMB colony, S/Shaft, Gate Chamber, Switch Yard & Commercial Feeders at Slapper Sub-Station.	38.47	No.13859-62 Dt.2.8.2013.	0.00	34.00	0.00
47	Estimate for internal Inspection & Maintenance of Penstock Branch No-3 & 4 D/S( include portion) at Slapper.	11.00	Under Process	0.00	11.00	0.00
48	Estimate for internal Inspection & Maintenance of 2 Nos Penstock Branch D/S (include portion) at Slapper.	11.00	Under Process	0.00	0.00	11.00
49	Rain water harvesting system in BBMB Rest House and as well as in Chairman, BBMB, Residence.	35.00	Under process	5.00	1.00	20.00
50	Repair Renovation of toilet in Board office complex plot No. 6-B, Sec. 19-B, CHD.	12.35	Under Process	0.00	0.00	12.35
51	Repair of damages of Suketi diversion channel during the rainy season 2014-15	15.00	Under Process	15.00	0.00	15.00
52	Const. of 129 No. Toilets in various schools of Dist. Bilaspur & Mandi of HP.	160.00	Under Process	0.00	50.00	109.90
53	Replacement of Existing 7 No's Oil Circuit Breaker (2 No's Outgoing) with latest ACB for DPH, BBMB colony, S/Shaft, Gate Chamber, Switch Yard & Commercial Feeders at Slapper Sub-Station.	38.47	No.13859-62 Dt.2.08.2013.	0.00	34.00	0.00
54	Estimate for internal Inspection & Maintenance of Penstock Branch No-3 & 4 D/S( include portion) at Slapper.	11.00	Under sanction	0.00	11.00	0.00
55	Special repair of existing old store sheds at BBMB Sundernagar (Store complex)	15.00	shall be taken in action plan 2015-16	0.00	0.00	15.00

7A

56	To replace 4 Nos in coming H.T.Oil circuit breaker& 8 Nos out going O.C.B in 11 Kv control room at BSL(P)SNR and renovation of control room.	60.00	Action Plan 2013-14	5.00	55.00	0.00
57	Estimate for renovation of D Type houses(68 Nos.) in BBMB Colony, Sector 35-B, Chandigarh.	99.79	No. 21287-90/BSL/T-3 dt.22.12.10	50.00	80.00	20.00
58	Water proofing of roof of Board office complex at plot No. 6B and 6C, sector 19 B, Chandigarh.	12.23	No. 10308-11/BSL dt.1.7.2014.	5.36	11.36	0.00

38



**List of Machinery & Equipment Works in respect of Revised Budget Estimate for the year 2014-15 and Budget Estimate for the year 2015-16 under Head 2700 Major Irrigation Beas Project, Unit-I, Sundernagar.**

Sr. No.	Name of work.	Est. Cost.	Sanction No. & Date.	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
	<b>M&amp;E 2701-01-130-01-704</b>					
1	Memo for fabrication of 2 No. Bullet proof watch tower for Pandoh Dam.	15.00	Under Sanction	10.00	12.00	0.00
2	Illumeration of L&R bank U/S and D/S 500 mtr each side of River Beas of Pandoh Dam.	20.72	Under Process	0.00	21.00	0.00
3	Providing and fixing chain linked fencing with barbed wire at top on u/s side of Dam on both ends.	25.00	Under Sanction	20.00	20.00	0.00
4	Replacement of 2 No. buses 43 seater against BL-112 & 113	35.00	Memo submitted	20.00	0.00	10.00
5	Procurement of TATA -207/ TATA	7.33	U/ Sanction	1.00	0.00	7.33
6	Memo for Proc. of One Ambulance in replacement of old Ambulance Van / Mobile Dispensary at Pandoh	7.50	Under Process	0.00	0.00	7.50
7	Procurement of Wheel Excavation Loader in replacement of Tractor type front end loader.	22.89	Memo under sanction	17.00	0.00	0.00
8	Memo for Proc. One No. School Bus in replacement of grounded Bus.	14.80	Under Sanction	0.00	0.00	14.80
9	Memo for procurement of TATA 407 in replacement of RL-366	8.50	Under Sanction	0.00	0.00	8.50
10	Procurement of one number super Excavator and back hole loader fitted with 0.24 cum excavator and 1.0 cum loader bucket power by JCB/other company.	25.00	Under Action plan 2015-16	0.00	0.00	25.00
11	Obtaining 1 No. Foam and CO2 type fire tender for BSL Project in replacement of old Fire Tender RL-352.	37.80	Submitted for R A&A from B.O.	30.00	15.00	15.00
12	Replacement of 2 No. Fire Tenders i.e. RL-354 and RL-368	63.87	No. 12644-47 dt.18.04.13	29.00	30.00	15.00
13	Procurement of One No. 120 HP V.T. Pump.	15.00	Proposed in Action Plan 2015-16	0.00	0.00	15.00
14	To replace one No. TMB trunk RL-363 (HP-31-3510)	16.64	Action Plan 2012-13	16.64	0.00	15.00

*Handwritten signature*

-165-

15	Proc./outsourcing of 3 Nos Tavera/ Maruti Gypsy kind hard top in replacement of old vehicles maruti Van VL-88 & VL-96 & VL-71	20.00	Action Plan 2013-14	1.00	5.00	10.00
16	All geared high precision lethe confirming machine cont. to standard of grade A as per IS 1878 accurate with fitness and accessories.	18.00	Action Plan 2014-15	12.00	12.00	0.00
17	Replacement of 2 Nos, buses of 43 seater against BL-112 & 113	35.00	Memo Submitted	20.00	0.00	10.00
18	Procurement of two no. Ambulance for BSL Hospital SNR against surveyed off	11.50		10.00	0.00	10.00
19	Spare parts of American Moto Crane CL 16 & CL 78 and new gear box for CL-16	28.00	Under Process	0.00	0.00	20.00
20	Replacement of Transformer of different capacities (8 Nos.)	40.00	Under Process	0.00	0.00	15.00
21	Procurement of 1 No. Tipper in the replacement of Truck No.RL-251(HP-31-4426)	20.00	Under action plan of 2015-16	5.00	0.00	20.00

BR

**List of Major Works provided in the Revised Estimate for the year 2014-15 and Budget Estimate for the year 2015-16 Under Head 2701-Major Irrigation Beas Project, Unit-II, Pong Dam, BBMB, Talwara.**

(Rs. In lacs)						
Sr. No.	Name of Work.	Est. cost	Sanction No. & Date	Original Budget Est. 2014-15	Revised Budget Est. 2014-15	Proposed Budget Est. 2015-16
<b>Major Works (2701 01 129 01 701)</b>						
1	Prov. 20mm thick premix carpeting with seal coat on various terred road in Dam area and consturction of 34 mtr. road at 1405' area and intake area of Pong Dam.	37.00	under sanction	0.00	0.00	37.00
2	Est. for carrying out review of GTS & reference bench marks at Beas Dam by Survey of India.	31.68	No.3600-01 dt.29.3.14	6.00	32.00	0.00
3	Est. for providing concrete pevement from right side check post ton floating docking area at Right Bank of Beas Dam.	20.00	under sanction	0.00	0.00	20.00
4	Outsourcing the work of sanitation and conservancy & disposal of solid waste by segregation at door steps in BBMB colony at Talwara.	29.00	Est. will be submitted after getting AA	32.00	0.00	29.00
5	Constructing solid waste disposal pits, fencing of area for implantation of solid waste under Act,2000 in BBMB colony, Talwara.	14.69	No.14427-28 dt.19.11.13	3.00	15.00	0.00
6	Replacing of existing old conglomerate flooring of room of BBMB DAV Public school, Talwara with Kota stone flooring (phase-I)	27.16	No.14427-28 dt.19.11.13	0.00	6.00	0.00
7	Strengthening of pillar & columns repairs of walls cement based painting & finishing outer protion of 4 Nos. booth market sector 1&3 of BBMB colony at Talwara.	14.00	No.16387-88 dt.20.12.13	5.00	16.45	0.00
8	Replacing of existing old conglomerate flooring of room of BBMB DAV public school Talwara with kota stone flooring (phase-II)	18.00	Will be submitted after AA	0.00	0.00	18.00
9	Providing & fixing 200 Nos. wooden wire gauge shutters (of HOLLOCK wood) in BBMB colony, Talwara.	6.60	No.10352-53 dt.29.9.14	3.00	6.60	0.00
10	Furnishing of existing hall in BBMB officers club, complex Talwara by providing floor tiles, curtains, fixtures/ furnitures, Air conditioning etc. to convert it in confrence/seminar Hall in BBMB Talwara.	4.57	No.9266-67 dt.5.9.14	5.50	4.57	0.00
11	Outsourcing the work of running & mtc. of Rock Garden at Talwara.	9.68	No.16297-98 dt.13.12.12	24.00	0.00	0.00

12	Renovation of auditorium hall in officers club premises by replacing roofing and false ceiling etc. Talwara.	20.00	As per AA	20.00	5.00	15.00
13	Providing & fixing 200 Nos. wooden wire gauge shutters (of HOLLOCK wood) in BBMB colony, Talwara. (Phase-II)	8.00	Will be submitted after AA	0.00	0.00	8.00
14	Const. of approach path at main entrance, improvement of existing dry stone path and providing safty railing around water ponds of Rock Garden, Sec.4, Talwara.	4.00	Will be submitted after AA	0.00	0.00	4.00
15	Providing cement concrete platforms for collection bins including fencing of area in BBMB colony at Talwara.	5.00	Will be submitted after AA	0.00	0.00	5.00
16	Constructing cejment concrete path in BBMB DAV Public school at Talwara Township.	6.00	Will be submitted after AA	0.00	0.00	6.00

ER

**List of Machinery & Equipment Works provided in the Revised Estimate for the year 2014-15 and Budget Estimate for 2015-16 Under Major Irrigation Head M&E Beas Project, Unit-II, Pong Dam, BBMB, Talwara.**

(Rs. In lacs)

Sr. No.	Name of Work.	Est. cost	Sanction No. & date	Original Budget est. 2014-15	Revised Budget Est. 2014-15	Proposed Budget Est. 2015-16
	<b>27010113002-704-501 (M&amp;E)</b>					
1	Obtaining 3 No. Welding sets (400/600 Amp.) at Beas Dam, BBMB, Talwara.	4.50	Approved in Action Plan for 2014-15	2.50	4.50	0.00
2	Replacement/ modernization of 3 No. elevators on Beas Dam.	61.00	No. 26989-93 dt.10.9.14	0.00	1.00	60.00
3	Replacement of 2 No. TATA Truck of modal 1210 with modal 1510 for use in Beas Dam, BBMB, Talwara.	30.00	Approved in Action Plan for 2013-14	0.00	27.50	0.00
4	Replacement of 1 No. Tata Truck of Model 1210 with modal 1510 for use in Beas Dam, BBMB, Talwara.	15.00	Action plan for 2014-15	15.00	14.00	0.00
5	Obtaining 1 No. Truck part of 250-260 HP of Trailar for use on Beas Dam, BBMB, Talwara.	30.00	Approved in Action Plan for 2013-14	0.00	29.00	1.00
6	Replacement of 1 No. pump 200 HP with motor & starter for use in Beas Dam, BBMB, Talwara.	18.20	Approved in Action Plan for 2013-14	8.50	14.00	1.00
7	Obtaining 1 No. DG set 66 KV 82.5 KVA capacity 3 phase 400/440 volts alternater coupled with suitable engine water cooled of reputed made fitted in sound proof enclosure for use on Beas Dam BBMB, Talwara.	6.00	Approved in Action Plan for 2012-13	0.00	6.00	0.00
8	Obtaining 1 No. Lathe Machine 10 Ft. OBM Automatic Gear System full stroke spindle bore 4.5 inches hight of centre 14 inches Bist of bed 16 inches for use on Beas Dam, BBMB, Talwara.	11.00	Approved in Action Plan for 2014-15	8.00	10.00	1.00
9	Obtaining 1 No. 500 KVA/ 11/433/ KV rating outdoor type distribution T/f 3 phase 50 Hz oil immersed naturelly cooled ONAN type copper bound suitable for outdoor installation confirming to IS 2026 with off load tap changer and other necessary standared fitting and filled with T/f oil.	5.00	To be submitted on actual basis	5.00	5.00	0.00

*TR*

— 169 —

10	Obtaining two No. portable field office container at Beas Dam.	4.84	No.6470-71 dt.20.6.14	6.00	4.84	0.00
11	Obtaining one No. fire tender type-B of fire station BBMB, Talwara.	24.51	No.4644-45 dt.5.4.13	0.00	13.00	0.00
12	Purchase of security equipments (phase-I)	353.33	Under process	60.00	10.00	50.00
13	Obtaining material for setting up two No. control rooms as per requirement of EAP of Pong Dam.	43.25	To be submitted on actual basis	0.00	0.00	20.00
14	Obtaining 1 No. Laptop and DG set etc. for echo sounder.	4.24	To be submitted on actual basis	0.00	0.00	4.24
15	Outsourcing of 6 No. Jeeps with Bolaro/ Tavera/ TATA Sumo and 2 No. Cars on Beas Dam, Talwara.	17.00	Approved in Action Plan	17.00	0.00	0.00
16	Mtc. of sewerage treatment plant (STP) in BBMB Colony, Talwara.		No.3383-84 dt.16.3.10	20.00	22.00	24.00
17	Replacement of old pipe line (IWS) from ferrule to bathroom in 300 No. T-1 to T-5 houses in sector 1,2&3 in BBMB colony at Talwara.	15.00	No.7301-02 dt.7.2.14	18.00	15.00	0.00
18	Obtaining 20 No. Garbage contrainers for using in BBMB colony, Talwara.	12.00	To be submitted on actual basis	0.00	12.00	0.00
19	Replacement of old and used 170 HP Kirloskar make horizontal pump with motor starter & other accessories at water works, Talwara.	8.50	To be submitted on actual basis	0.00	8.50	0.00
20	Replacement of 3 No. old Jyoti make VT pumps of water supply scheme in BBMB colony at Talwara.	3.00	Will be submitted after A&A	8.00	0.00	3.00
21	Obtaining one No. DG set of suitable capacity for use at STP at Sector-4, Talwara.	34.00	To be submitted on actual basis	0.00	34.00	0.00

PR

**Detail of Budget Estimates under Major Head "280101-Power Hydel Generation-280105-Power Hydel Transmission " in respect of Bhakra Complex Power Houses Bhakra Nangal Project**

S. No	Head of Account.	Actual Expenditure 2013-14	Original Budget Estimates 2014-15	Revised Budget Estimate 2014-15	Budget Estimates 2015-16
	<b>Bhakra Complex Power Houses</b>				
		(Figures in lacs of Rupees)			
	<b>280101 Power Hydel Generation</b>				
	<b>Works Portion</b>				
A	<b>Works of Capital nature chargeable to Revenue</b>				
	I. Electrical Works				
	MP-I Generation	1821.05	2317.03	855.26	2445.59
	MP-I X Works	59.67	33.30	15.80	70.70
	Total Electrical works	1880.72	2350.33	871.06	2516.29
	ii. Civil Works				
	MP-I works				
	M-IX Works	140.73	271.76	77.93	273.40
	Total Civil Works	140.73	271.76	77.93	273.40
	<b>Grand Total Capital Nature of Works</b>	2021.45	2622.09	948.99	2789.69
B.	<b>Normal Operation &amp; Maintenance Works</b>				
	MP-I Generation	128.43	129.51	121.66	176.20
	MP-I X Works	95.00	173.85	155.93	176.40
	MP-XIV losses written off				
	Net Debit to Suspense	-1019.09	318.50	61.60	274.43
	Grand Total Operation & Maintenance Works	-795.66	621.86	339.19	627.03
	<b>Grand Total Generation Works A &amp; B</b>	1225.79	3243.95	1288.18	3416.72
	<b>Establishment</b>				
	MP-I Generation	3903.03	4223.22	4321.16	4473.06
	MP-IX	2300.59	2132.04	2383.12	2424.46
	GA-2	398.99	751.36	515.12	758.87
	CO-1	329.58	299.75	374.43	390.34
	GA-5	279.22	314.22	304.11	356.18
	<b>Total Establishment Generation MP-I+MP-IX+GA-2+CO1+GA-5</b>	7211.41	7720.59	7897.94	8402.91
	<b>Total 2801-Generation Works &amp; Establishment</b>	8437.20	10964.54	9186.12	11819.63
	<b>Modernization &amp; Uprating</b>	1727.04	12500.00	6000.00	10000.00
	<b>Major Head 280105 Power Hydel Transmission</b>				
	<b>Works Portion</b>				
A	<b>Works of Capital nature chargeable to Revenue</b>				
	I. Electrical Works				
	MP-II Transmission	435.41	3011.17	947.40	2208.31
	MP-I X Works	12.40	70.40	90.83	40.85
	Total Electrical works	447.81	3081.57	1038.23	2249.16
	Civil Works				
	MP-II works				
	MP-IX Works	4.17	13.16	64.87	78.09
	Total Civil Works	4.17	13.16	64.87	78.09
	<b>Grand Total Capital Nature of Works</b>	451.98	3094.73	1103.10	2327.25
	<b>B. Normal Operation &amp; Maintenance Works</b>				
	MP-II Transmission	264.34	699.26	225.22	440.33
	MP-I X Works	204.28	272.73	317.06	305.77
	MP-XIV losses written off	0.07	0.30	0.30	0.30
	Net Debit to Suspense	88.88	20.44	47.26	52.56
	Deduct R & R				
	Total Operation & Maintenance Works	557.57	992.73	589.84	798.96
	<b>Grand Total Transmission Works Capital &amp; Operation Works</b>	1009.55	4087.46	1692.94	3126.21
	<b>Establishment</b>				
	MP-II Transmission	4458.29	4841.43	4521.67	4873.59

*[Handwritten signature]*

-171-

<u>MP-IX</u>	2333.17	2128.94	2336.56	2450.00		
<u>GA-2</u>	636.17	621.68	641.16	650.19		
<u>CO-1</u>	1986.27	1920.62	2044.84	2309.99		
<u>GA-5</u>	501.76	471.33	456.17	534.28		
<u>GA-3</u>						
<u>Total Establishment Generation MP-I+MP-IX+GA-2+CO1+GA-5+GA3</u>	9915.66	9984.00	10000.40	10818.05		
<u>Grand Total 2805-Transmission Works &amp; Establishment</u>	10925.21	14071.46	11693.34	13944.26		
<u>Total Bhakra Complex Power Houses</u>						
Works of Generation	1225.79	3243.95	1288.18	3416.72		
Works of Transmission	1009.55	4087.46	1692.94	3126.21		
<u>Total Works</u>	2235.34	7331.41	2981.12	6542.93		
<u>Establishment</u>						
Generation	7211.41	7720.59	7897.94	8402.91		
Transmission	9915.66	9984.00	10000.40	10818.05		
<u>Total Establishment</u>	17127.07	17704.59	17898.34	19220.96		
<u>Total Works &amp; Establishment</u>						
280101 - Power Hydel Generation	8437.20	10964.54	9186.12	11819.63		
280105 - Power Hydel Transmission uprating	10925.21	14071.46	11693.34	13944.26		
	1727.04	12500.00	6000.00	10000.00		
<u>Grand Total Bhakra Complex Power Houses</u>	21089.45	37536.00	26879.46	35763.89		
<u>Houses</u>						
Add Share Transferred from Irrigation Wing	11355.00	13314.33	13427.96	14721.44		
<u>Grand Total</u>	32444.45	50850.33	40307.42	50485.33		
Shares between the Partner State Electricity Boards.						
PSPCL	51.80	%	14248.32	22331.45	17701.42	22171.15
HVPNL	37.51	%	10317.65	16170.90	12818.15	16054.83
RVPNL	15.22	%	4938.04	7739.42	6134.79	7683.87
HPSEBL	7.19	%	1977.71	3099.67	2457.01	3077.42
UT, Chandigarh	3.50	%	962.72	1508.88	1196.04	1498.05

84



**Abstract of Budget Estimates of Establishment of Power Wing 'Bhakra' (P.W.)**

Sr. No.	Detailed Head/ Object Heads of Accounts	CODE	Actual Expend. 2013-14	Budget Estimates 2014-15	Revised Budget Est. 2014-15	Budget Estimates 2015-16
						(₹ in Lacs)
1	Salaries of Regular/WC Emp.	251	12901.76	12467.99	12885.97	13648.22
2	Empl. On Contract basis	252	180.56	117.04	233.10	234.46
3	Conveyance Allowance	253	118.99	152.12	142.65	136.67
4	Wages of Daily Rated Empls.	255	0.06	5.53	0.71	0.76
5	TA.	257	107.68	125.42	116.53	113.94
6	LTC.	258	45.82	28.29	59.32	48.45
7	Pay of Drivers.	259	10.87	9.40	6.99	6.82
8	Computer.	260	36.15	419.70	107.98	377.60
9	Rent.	261	0.01	0.00	0.00	0.01
10	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
11	Insurance	263	0.01	0.08	0.15	0.11
12	Dispensaries	264	0.15	0.12	3.14	3.51
13	Medical charges.	266	125.59	93.76	148.06	158.67
14	Legal Services.	267	11.39	5.89	12.60	14.03
15	Printing & Stationery.	269	21.58	26.27	21.70	25.18
16	Postage & Telegram.	270	3.69	4.78	4.36	4.33
17	Telephone & Internet.	271	27.04	39.98	46.79	50.62
18	Electricity & Water.	272	55.98	48.57	59.94	62.61
19	Books & Periodical.	273	1.36	2.11	1.39	1.48
20	Advertisement.	274	0.09	9.19	2.37	2.20
21	Hot & Cold Weather charges.	275	2.57	5.53	6.49	6.90
22	Liveries.	276	6.94	13.29	7.25	8.71
23	Bank Collection charges.	277	0.00	0.00	0.00	0.00
24	Furniture.	278	1.83	6.57	50.78	27.71
25	Typewriters & Photostat Mach.	279	9.09	10.27	8.94	9.45
26	Misc. Office Expenses.	280	124.84	156.14	207.43	260.82
27	Material & Supply of Hospital.	281	0.16	0.30	0.20	0.25
28	Medicine.	283	0.14	0.83	3.23	1.26
29	Sports Activities.	286	3.85	5.80	8.00	8.37
30	Training & Seminars.	288	47.18	25.04	36.71	30.78
31	Entertainment catering etc.	289	0.89	1.27	1.17	1.28
32	Stipend	300	4.46	12.07	6.22	6.07
33	Scholarship	301	2.40	1.83	2.82	1.18
34	Pension.	302	1899.68	1907.63	1922.84	1979.76
35	Commutation of Pension.	303	114.17	394.52	323.64	394.49
36	EBA.	304	0.00	0.00	0.00	0.00
37	Gratuity & DCRG.	305	428.25	518.58	483.11	570.73
38	Leave Encashment.	307	324.95	587.52	484.93	512.22
39	Security Staff.	308	408.68	497.79	488.45	508.47
40	Incentive to partner States.	310	127.85	0.00	0.00	0.00
41	Awards & Prizes.	312	1.82	3.37	2.38	2.84
42	HBA.	313	-31.19	0.00	0.00	0.00
43	Conveyance/Vehicles advance	314	-0.27	0.00	0.00	0.00
	<b>Total</b>		<b>17127.07</b>	<b>17704.59</b>	<b>17898.34</b>	<b>19220.96</b>

*SR*

**Detail of Budget Estimates under Major Head "280101-Power Hydel Generation-280105-Power Hydel Transmission " in respect of Beas Project Chargeable to Power Wing Unit No. 1 & 2 BSL Dehar Power Plant Unit No-1 Pong Power Unit No.-2 and Beas Transmission Line**

S.No.	Head of Account.	Actual Expenditure for 2013-14	Org. Budget Estimates 2014-15	Revised Budget Est. 2014-15	Budget Estimates 2015-16
-------	------------------	--------------------------------	-------------------------------	-----------------------------	--------------------------

**Dehar Power Plant Unit No. I  
(Power Wing)**

(Figures in lacs of ₹)

**280101 Power Hydel Generation**

**Works Portion**

**A. Works of Capital nature**

chargeable to Revenue

Electrical Works-

MP-I Generation

1.28 153.00 712.50 2261.71

MP-II Transmission

24.45 1.00 99.00

MP-I X Works

11.00

Total Electrical works

25.73 153.00 724.50 2360.71

Civil Works

MP-IX General Expenses

MP-IX Works

26.73 17.15 36.25 49.90

Total Civil Works

26.73 17.15 36.25 49.90

Grand Total Capital Nature of Works

52.46 170.15 760.75 2410.61

**B. Normal Operation &**

**Maintenance Works**

MP-I Generation

1317.18 2055.62 1366.62 1186.32

MP-II Transmission

86.83 427.73 431.41 96.60

MP-I X Works

151.23 194.86 131.92 263.02

MP-XIV - Losses Written off

Net Debit to Suspense

98.21 169.00 684.32 1522.50

Grand Total Operation &

Maintenance Works

1653.45 2847.21 2614.27 3068.44

Grand Total Generation Works A & B

1705.91 3017.36 3375.02 5479.05

Deduct Share Debitable to

Irr.Wing @ 6%

102.35 181.04 202.50 328.74

Balance Power Wing

1603.56 2836.32 3172.52 5150.31

Shares between the partner State Elec. Boards

P.S.P.C.L.	51.80 %	664.52	1175.37	1314.69	2134.29
H.V.P.N.L.	37.5 %	481.20	851.12	952.01	1545.51
R.V.P.N.L.	20.00 %	320.71	567.26	634.50	1030.06
H.P.S.E.B.L.	7.19 %	92.24	163.15	182.48	296.25
U.T. CHD	3.50 %	44.90	79.42	88.83	144.21

**Establishment**

MP I Generation

1750.42 1905.99 2261.61 2569.31

MP-II Transmission

58.20

MP IX

1516.12 1337.88 1425.91 1727.37

CO-1

106.79 126.26 120.38 155.73

Total Establishment Generation

3431.53 3370.13 3807.90 4452.41

Deduct Share Debitable to

Irr.Wing

205.89 202.21 228.47 267.14

Balance Power Wing

3225.64 3167.92 3579.43 4185.27

Shares between the Partner State Elec. Boards.

P.S.P.C.L.	51.80 %	1336.70	1312.79	1483.31	1734.38
H.V.P.N.L.	37.5 %	967.95	950.63	1074.11	1255.92
R.V.P.N.L.	20.00 %	645.13	633.58	715.89	837.05
H.P.S.E.B.L.	7.19 %	185.54	182.22	205.89	240.74
U.T. CHD	3.50 %	90.32	88.70	100.22	117.19

Total Gross Works Unit No. I

1705.91 3017.36 3375.02 5479.05

Total Gross Establishment Unit No.I

3431.53 3370.13 3807.90 4452.41

Total Gross Works & Establishment		5137.44	6387.49	7182.92	9931.46
Less Share Debitable to Irr. Wing		308.24	383.25	430.97	595.88
Balance		4829.20	6004.24	6751.95	9335.58
Add Share Transferred from Irrigation Wing		13843.04	14524.84	15159.13	16102.35
<b>Grand Total Unit No.1 BSL Dehar Power Plant</b>		<b>18672.24</b>	<b>20529.08</b>	<b>21911.08</b>	<b>25437.93</b>
<b>Shares between the Partner State Elec.Boards.</b>					
P.S.P.C.L.	51.80 %	7737.78	8507.25	9079.95	10541.48
H.V.P.N.L.	37.5 %	5603.17	6160.36	6575.08	7633.41
R.V.P.N.L.	20.00 %	3734.45	4105.82	4382.22	5087.59
H.P.S.E.B.L	7.19 %	1074.03	1180.83	1260.33	1463.19
U.T., CHD	3.50 %	522.82	574.81	613.51	712.26

**Unit No.2 PONG POWER PLANT  
CHARGEABLE TO POWER  
WING**

<b>Works Portion</b>					
<b>A</b>	<b><u>Works of Capital nature</u></b>				
	<b>chargeable to Revenue</b>				
	<b><u>Electrical works</u></b>				
	MP-I Generation	579.44	1852.10	1735.31	1294.03
	MP-II Transmission				
	MP-IX Works				
	<b>Total Electrical works</b>	<b>579.44</b>	<b>1852.10</b>	<b>1735.31</b>	<b>1294.03</b>
	<b><u>Civil Works</u></b>				
	MP-I				
	MP-I X Works	0.04	9.96	3.75	37.00
	<b>Total Civil works</b>	<b>0.04</b>	<b>9.96</b>	<b>3.75</b>	<b>37.00</b>
	<b>Grand Total Works of Capital Nature</b>	<b>579.48</b>	<b>1862.06</b>	<b>1739.06</b>	<b>1331.03</b>
<b>B.</b>	<b><u>Normal Operation &amp; Maintenance Works</u></b>				
	MP-I Generation	79.51	29.80	30.32	30.85
	MP-II Transmission				
	MP-IX Works	43.45	64.33	64.53	66.60
	MP-XIV - Losses Written off		0.50	0.50	0.50
	Net Debit to Suspense	59.70	25.00	40.00	20.00
	Deduct R & R				
	<b>Total Operation &amp; Maintenance Works</b>	<b>182.66</b>	<b>119.63</b>	<b>135.35</b>	<b>117.95</b>
	<b>Grand Total Transmission Works Capital &amp; Operation</b>	<b>762.14</b>	<b>1981.69</b>	<b>1874.41</b>	<b>1448.98</b>
	<b><u>Works</u></b>				
	Deduct Share Debitable to Irr. Wing @	76.5 %	583.04	1515.99	1433.92
	Balance works chargeable to Power Wing		179.10	465.70	440.49
					340.51
	PSPCL	51.80 %	38.50	100.11	94.69
	HVPNL	37.5 %	27.88	72.50	68.57
	RVPNL	58.50 %	104.77	272.43	257.69
	HPSEBL	7.19 %	5.34	13.90	13.14
	UT, Chandigarh	3.50 %	2.60	6.76	6.40
					4.95
	<b><u>Establishment</u></b>				
	MP-I Generation		1283.60	1652.16	1564.30
	MP-IX		793.66	854.39	816.87
	MP-II Transmission		5.42		
	CO-I		153.68	205.08	152.04
	<b>Total Establishment Unit No.2</b>		<b>2236.36</b>	<b>2711.63</b>	<b>2533.21</b>
	Deduct Share Debitable to Irr. Wing @	76.5 %	1710.82	2074.40	1937.91
	Balance works chargeable to Power Wing		525.54	637.23	595.30
					660.60
	<b>Total Gross Works Unit No.2 Pong Power Plant</b>		<b>762.14</b>	<b>1981.69</b>	<b>1874.41</b>
					1448.98
	<b>Total Gross Establishment Unit No.2</b>		<b>2236.36</b>	<b>2711.63</b>	<b>2533.21</b>
					2811.08

*Handwritten signature/initials*

-175-

<u>Gross Total Works &amp; Establishment</u>		2998.50	4693.32	4407.62	4260.06
Less Debitable to Irrigation Wing	76.5 %	2293.85	3590.39	3371.83	3258.95

@

Balance works chargeable to Power Wing		704.65	1102.93	1035.79	1001.11
Add Share Transferred From Irr. Wing		2442.02	2693.13	2627.24	2878.21
<u>Total Unit No.2 Works &amp; Establishment</u>		3146.67	3796.06	3663.03	3879.32

Shares between the Partner State Elec. Boards.

PSPCL	51.80 %	676.44	816.04	787.44	833.94
HVPNL	37.5 %	489.83	590.92	570.21	603.88
RVPNL	58.50 %	1840.80	2220.70	2142.87	2269.40
HPSEBL	7.19 %	93.89	113.27	109.30	115.75
UT, Chandigarh	3.50 %	45.71	55.14	53.21	56.35

Major Head - 280105 Beas Transmission Lines (BTL)

A. Capital Nature of Work Chargeable to Revenue Electrical works

MP-II Transmission		1053.16	1518.05	1085.92	1491.84
MP-I X Works		28.34	41.99	52.35	38.99
<u>Total Electrical works</u>		1081.50	1560.04	1138.27	1530.83

Civil Works

MP-II Transmission					
MP-I X Works		1.10	60.41	51.43	110.22
<u>Total Civil works</u>		1.10	60.41	51.43	110.22

Grand Total Works of Capital Nature

		1082.60	1620.45	1189.70	1641.05
--	--	---------	---------	---------	---------

B. Normal Operation & Maintenance Works

MP-II Transmission		108.05	418.98	419.33	328.96
MP-IX Works		95.60	239.84	225.41	237.83
MP-XIV - Losses Written off					
Net Debit to Suspense		202.77	6.11	18.87	76.68
Deduct R & R					

Total Operation & Maintenance Works

		406.42	664.93	663.61	643.47
--	--	--------	--------	--------	--------

Grand Total Transmission Works Capital & Operation

		1489.02	2285.38	1853.31	2284.52
--	--	---------	---------	---------	---------

Works

			Shares between the Partner State Elec.Boards.			
P.S.P.C.L.	28.7	%	325.85	500.15	405.59	499.96
H.V.P.N.L.	60.6	%	687.49	1055.15	855.66	1054.75
R.V.P.N.L.	23.80	%	354.39	543.92	441.09	543.72
H.P.S.E.B.L	7.19	%	81.58	125.21	101.54	125.16
U.T., CHD	3.50	%	39.71	60.95	49.43	60.93

Establishment

<u>MP-II - Transmission</u>		4217.50	4509.78	4470.91	4766.08
<u>MP-I X General Establishment</u>		1377.75	1771.21	1614.66	1786.50
<u>GA5</u>		19.47			
<u>CO1</u>		0.03			
<u>Total Establishment BTL</u>		5614.75	6280.99	6085.57	6552.58

Shares between the Partner State Elec. Boards.

P.S.P.C.L.	28.7 %	1228.57	1374.57	1331.80	1434.01
H.V.P.N.L.	60.6 %	2592.51	2899.90	2809.68	3025.30
R.V.P.N.L.	23.80 %	1336.31	1494.88	1448.37	1559.51
H.P.S.E.B.L	7.19 %	307.62	344.12	333.41	359.00
UT, Chandigarh	3.50 %	149.75	167.51	162.30	174.76

Gross Total BTL Works & Establishment

		7103.77	8566.37	7938.88	8837.10
--	--	---------	---------	---------	---------

Shares between the Partner State Elec. Boards.

P.S.P.C.L.	28.7 %	1554.42	1874.72	1737.39	1933.97
H.V.P.N.L.	60.6 %	3280.00	3955.05	3665.34	4080.05

R.V.P.N.L.	23.80 %	1690.70	2038.80	1889.46	2103.23
H.P.S.E.B.L	7.19 %	389.20	469.33	434.95	484.16
UT, Chandigarh	3.50 %	189.46	228.46	211.73	235.69

**Total Gross Beas Project Works**

Unit No. 1 BSL	1705.91	3017.36	3375.02	5479.05
Unit No. 2 Pong Power Plant	762.14	1981.69	1874.41	1448.98
Beas Transmission Lines	1489.02	2285.38	1853.31	2284.52
<b>Total Works Beas Project</b>	<b>3957.07</b>	<b>7284.43</b>	<b>7102.74</b>	<b>9212.55</b> ✓

**Total Gross Establishment**

Unit No. 1 BSL	3431.53	3370.13	3807.90	4452.41
Unit No. 2 Pong Power Plant	2236.36	2711.63	2533.21	2811.08
Beas Transmission Lines	5614.75	6280.99	6085.57	6552.58
<b>Total Establishment Beas Project</b>	<b>11282.64</b>	<b>12362.75</b>	<b>12426.68</b>	<b>13816.07</b>

**Grand Total Gross Works & Establishment Beas**

	15239.71	19647.18	19529.42	23028.62 ✓
--	----------	----------	----------	------------

**Deduct Share Debitable to Irrigation Wing**

	2602.09	3973.64	3802.80	3854.83
--	---------	---------	---------	---------

**Balance Debitable To Power Wing**

	12637.62	15673.54	15726.62	19173.79
--	----------	----------	----------	----------

**Add Share Transferred From Irrigation Wing**

	16285.06	17217.97	17786.37	18980.56
--	----------	----------	----------	----------

**Grand Total Beas Project**

	28922.68	32891.51	33512.99	38154.35
--	----------	----------	----------	----------

**Chargeable to Power Wing**

Shares between the Partner State Elec.Boards.				
P.S.P.C.L.	9968.64	11198.01	11604.78	13309.39
H.V.P.N.L.	9373.00	10706.33	10810.63	12317.34
R.V.P.N.L.	7265.95	8365.32	8414.55	9460.22
H.P.S.E.B.L	1557.12	1763.43	1804.58	2063.10
U.T., Chandigarh	757.99	858.41	878.45	1004.30

*Handwritten signature*

**Abstract of Budget Estimates of Establishment of Power Wing 'Beas Project'.**

Sr. No.	Detailed Head/ Object Heads of Accounts	CODE	Actual Expend. 2013-14	Original Budge Est. 2014-15	Revised Budget Est. 2014-15	Budget Estimates 2015-16
(₹ in lacs)						
1	Salaries of Regular/WC Emp.	251	8370.57	8745.87	8999.57	9752.25
2	Empl. On Contract basis	252	133.33	103.01	162.32	197.12
3	Conveyance Allowance	253	70.08	86.81	69.15	80.29
4	Wages of Daily Rated Empl.	255	0.01	1.00	0.04	0.04
5	TA.	257	62.49	95.34	77.81	86.60
6	LTC.	258	5.90	25.06	40.67	17.99
7	Pay of Drivers.	259	7.61	37.00	23.80	25.68
8	Computer.	260	0.95	1.50	6.31	7.45
9	Rent.	261	0.21	0.20	0.25	0.29
10	Purchase of Vehicle.	262	0.00	0.00	0.00	0.00
11	Insurance	263	0.10	0.12	0.07	0.11
12	Dispensaries	264	0.20	0.25	0.72	0.91
13	Medical charges.	266	72.12	76.85	75.77	88.93
14	Legal Services.	267	1.85	1.61	3.31	3.27
15	Printing & Stationery.	269	6.68	11.66	11.20	11.32
16	Postage & Telegram.	270	1.24	2.64	2.13	2.77
17	Telephone & Internet.	271	11.20	11.23	11.14	12.45
18	Electricity & Water.	272	0.85	1.90	2.13	2.27
19	Books & Periodical.	273	0.14	0.25	0.39	0.30
20	Advertisement.	274	0.00	1.24	0.42	0.79
21	Hot & Cold Weather charges	275	0.50	0.81	1.35	1.56
22	Liveries.	276	7.12	8.55	7.99	8.42
23	Bank Collection charges.	277	0.00	0.00	0.00	0.00
24	Furniture.	278	0.17	2.82	2.94	3.29
25	Typewriters & Photostat Mach.	279	1.36	4.38	2.36	3.30
26	Misc. Office Expenses.	280	25.29	41.31	45.05	57.04
27	Material & Supply of Hospital.	281	0.00	0.00	0.00	0.00
28	Medicine.	283	0.09	0.12	0.37	0.54
29	Sports Activities.	286	0.00	0.87	1.56	1.82
30	Training & Seminars.	288	2.67	7.23	9.71	14.64
31	Entertainment catering etc.	289	0.00	0.05	0.10	0.10
32	Stipend	300	8.77	5.98	7.23	7.73
33	Scholarship	301	1.19	4.06	2.74	2.98
34	Pension.	302	1519.33	1287.80	1595.32	1901.85
35	Commutation of Pension.	303	166.28	453.63	334.81	368.05
36	EBA.	304	0.00	0.00	0.00	0.00
37	Gratuity & DCRG.	305	452.07	684.88	362.34	433.28
38	Leave Encashment.	307	236.14	468.78	270.35	387.02
39	Security Staff.	308	96.85	85.62	142.41	171.73
40	Incentive to Partner States.	310	75.09	100.00	150.75	160.00
41	Awards & Prizes.	312	1.07	2.32	2.10	1.89
42	HBA.	313	-56.87	0.00	0.00	0.00
43	Conveyance/Vehicles advance	314	0.00	0.00	0.00	0.00
	<b>Total</b>		<b>11282.65</b>	<b>12362.75</b>	<b>12426.68</b>	<b>13816.07</b>

178

List of Major new/ continued works of Capital Nature chargeable to Revenue Accounts under Major Head 2801-01 Power Hydel Generation provided in the Budget Estimates for the year 2014-15 (Revised) and 2015-16 (Proposed) under S.E./ Bh. P.H.s Circle, BBMB (PW), Nangal under Generation Administration.

(Rs. In lacs)						
Sr. No.	Name of Work	Est. cost	Sanction No. & Date	Original Budget Estimates 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
1	RM&U of Bhakra PP-I.	48600.00	CEG-62/08-09	12500.00	6000.00	10000.00
2	Evacuation Power From Unit No.1 of Bh. PP-I to 220KV S/Yard Bhakra PP-II.	284.00	CEG-24/14-15	200.00	0.10	150.00
3	Prov 1 No Diesel Generating set & Prov 2 No.Submersible Pumps of Cap.10000 Ltr. per min. at Bh PP-I.	180.00	No.1118 dt:11.05.12	52.00	0.10	65.00
4	R & R of Existing 6 Nos Water Pressure Filters With New Filters of latest Technology.	54.00	No.813/B-2251 dated 26.04.13	53.90	0.10	54.00
5	R&R of existing important 11KV, 3.3KV & 0.415 KV Power Cables with XLPE & PVC Power Cables at various Inter Connections of Aux Power Supply System at Bhakra PP-I	98.25	CEG-22/2013-14	30.00	0.10	30.00
6	Providing Passive Fire Protection System in Table Tunnel from Power House Building to 220 KV & 66 KV Switchyard at Bhakra PP-I.	42.78	Under Process	0.00	0.00	40.00
7	R&R of 11 KV Switch Gear System Installed at 220 KV Swithyard Bhakra PP-I And 11 KV Project Supply Centre.	134.46	Under Process	0.00	0.00	50.00
8	Complete Overhauling of 8 No. CGL Make 245 KV SF-6 Gas Breakers Installed at 220 KV Swithyard at Bharka Left Bank Power House.	89.78	Under Process	0.00	0.00	50.00
9	Complete Overhauling of 8 No. ABB Make 72.5 KV SF-6 Breakers Installed at 66 KV Swithyard at Bharka Left Bank Power House.	45.19	Under Process	0.00	0.00	25.19
10	Procurement of Modular Furniture at Bhakra Left Bank Power House.	36.40	Under Process	-	0.00	36.40

11	Prov. 1 No. Diesel Generating Set of 500 KVA 0.4 KV alongwith allied equipment Control Panel etc.PP-II & Prov.2 No. Submersible Pumps of Cap.10000 Ltr.Per Min. at Bh.PP-II	180.00	No.1118 Dt:11.05.12	41.00	0.20	55.00
12	Providing of 2 Set of Brake Disk Segment for Units of Bhakra Right Bank Power House.	115.34	No.1118 Dt:11.05.12	114.34	22.00	35.00
13	R&R of old Non-FRLS Power Cables of Six TWS Pumps at Bhakra Right Bank.	45.23	No.2957-60 dated 22.01.14	17.00	10.00	30.00
14	Capital Mtc. of Unit No. 9 of Bhakra PP-II.	1617.32	No.27819-21 dt. 19.08.2013	23.00	50.00	2.00
15	Capital Mtc of Unit No.6 of Bhakra PP-II.	981.00	No.813/B- 2251 dt:26.04.13	981.00	0.10	100.00
16	Capital Mtc. of 3rd Unit (Unit No.8) of Bhakra Right Bank Power House.	1078.00	Under Process	0.00	0.00	100.00
17	R&R of Flow Meters of Shaft Seals and Bearing Cooling Water Pipe Lines in 5X157 MW Machines of Bhakra Right Bank Power House	35.80	Under Process	0.00	0.00	25.00
18	Procurement of On-Line Vibration Monitoring System for Units of Bhakra Right Bank Power House .	58.60	Under Process	0.00	0.10	45.00
19	R&R of 35 Nos. CTs With Polymer Type CTs of Units & Feeders at 220 KV Switchyard of Bhakra Right Bank Power House.	192.00	No.18073-76 dated 26.06.2014	150.00	1.00	145.00
20	Replacement of 5 Nos Seimens make SF-6 Circuit Breaker of Generating Units of Bhakra Right Bank Power House	75.00	No.1118/B- 2251 dt:11.05.12	1.00	0.10	50.00
21	Prov. Numerical Generator Protection Scheme for all units of Bhakra Right Bank Power House.	90.03	CEG-41/2012- 13	70.00	0.10	60.00
22	Providing 19 No. 220 KV PTs In respect of 4 No. Outgoing Feeders and 3 No. Bus-Sections at 220 KV switchyard Bhakra PP-II.	65.00	No.813/B- 2251 dt:26.04.13	57.00	0.10	45.00

ER



23	R&R of old Non FRLS Pilca Control and Power Cables With FRLS, PVC Insulated Cables Running In Cable Gallery from Bhakra Right Bank Power House to Switchyard.	203.35	CEG-20/2014-15	150.00	0.10	100.00
24	Improvement of Ventilation System at Bhakra PP-II.	44.55	No.1118 dt:11.05.12	45.58	0.10	35.00
25	Providing dedicated Event Loggers at 220 KV Switchyard at Bhakra PP-II.	20.65	No.28150-52 dt. 03.09.2013	14.00	0.10	20.65
26	Providing Passive Fire Protection System in Cable Gallery & Cable Tunnel from Power House Building to 220 KV Switchyard at Bhakra PP-II.	49.72	Under Process	0.00	0.00	40.00
27	R&R of Electro-mechanical Bus Bar & LBB Scheme in 220 KV Switchyard of Bhakra Right Bank Power House.	49.88	Under Process	0.00	0.00	35.00
28	Construction of New Shed for storage of iron scrap with concrete floor at Nangal.	31.53	No.1736/B-2251 dt.28.7.11	0.36	5.00	25.00
29	Installation of CCTV Camera in PH for Surveillance.	35.80	CEG-36/2013-14	35.00	0.10	35.80
30	M&R of Heavy Vehicles at Transport Yard Nangal	73.00	BPHT-11/2014-15	35.00	36.00	37.00
31	Construction of New Shed for Parking and Repair of vehicle in BBMB (PW) Transport Yard at Nangal.	25.10	No.1118/B-2251 dt:11.05.2012	25.00	0.10	25.00
32	Providing and Laying of Water Proofing Treatment on the Roof of Bh.PP-II Building.	43.62	Under Process	0.00	0.00	43.62
33	Procurment of 40 KL of new transformer of (Naphthenic Base) against Reserve Stock for Bhakra Power House Circle.	44.00	Under Process	0.00	0.00	44.00

9/12

List of Major new/ continued works of Capital Nature chargeable to Revenue Accounts under Major Head 2801 Power Hydel Generation provided in the Revised Budget Estimate for the year 2014-15 and Proposed Budget Estimate for the year 2015-16 in rest of R.E./ Ganguwal & Sr. XEN./ O&M Divn., Ganguwal under the Dy. CE/ CPHs Circle, BBMB (PW), Nangal.

(Rs. In lacs)						
Sr. No.	Name of Works	Estd. Cost	Sanction No. & Date	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
1	To provide on line vibration data acquisition monitoring & processing system complete with allied accessories on the all units at Ganguwal & Kotla Power Houses.	41.00	No. 757 /B-2251/Action Plan/Gen/2P dated 14.03.2014	50.00	0.50	40.00
2	Replacement of BHEL make runner with new runner of unit No-3 at Ganguwal Power House.	700.00	No. 38462-65/B-5/Bh. 2P dated 27.11.2013	50.00	30.00	100.00
3	Replacement of BHEL make runner with new runner of unit No-3 at Kotla Power House	700.00	Under Process	50.00	30.00	100.00
4	R&R of existing 132/33,16 MVA T/f (T-3) with new one at Ganguwal.	200.00	No. 1118/B-2251/Action Plan/Gen./2P dated 11.05.2012	138.00	160.00	1.00
5	R&R of existing C&R panel having protection relays of BHEL units with numerical protection relays at Ganguwal & Kotla PH's.	111.00	No. 813/B-2251/Action Plan/Gen./2P dt. 26.04.2013	100.00	0.10	95.00
6	Carrying out under water videography of all the draft tube gates ( 3 Nos with each unit) of the remaining 5 No Units at Ganguwal & Kotla Power Houses.	37.65	No. 40457-60/B-5/Bhakra/2P dated 19.12.2013	0.00	37.65	0.00
7	Carrying out under water repairs / replacement of the damaged / deteriorated guide / track of all the draft tube gates (after the videography of each unit)of 5 Nos Units 3 Nos at Ganguwal & 2 nos at Kotla Power House.	500.00	New work	250.00	0.00	250.00

*[Handwritten signature]*

8	Carrying out under water repairs / replacement of the damaged / deteriorated guide / track of the draft tube gates after videography in respect Unit No. 3 Kotla Power House.	231.00	No.40515-18/B-5/Bhakra/2P dated 19.12.2013	0.00	220.00	11.00
9	Carrying out repair /replacement of under water 6 Nos guide track meant for trashrack gates of unit no-I at forebay of Ganguwal Power House.	80.00	Under Process	10.00	1.00	30.00
10	R&R of 2 No. PILOT Brand, 5 MT. Heavy duty mono Rail.wire rope electric Hoists for trash racks & stop logs at forebay along with their spares of Ganguwal & Kotla PHs.	25.00	Under Process	25.00	1.00	24.00
11	R&R of TATA Bus No. PB-12/A-4776 with new TATA standard Bus (50+1) seater on Model LB-1512-TC-52-BS-III under SDO,S&T, Ganguwal.	22.00	No. 813/B-2251/Action Plan/Gen/2P dt. 26.04.2013	1.00	0.00	22.00
12	To provide conveyance to School going children of BBMB employees from Ganguwal & Kotla Colonies to DAV School Nangal (2 Buses)	16.00	New Work	16.00	1.00	16.00
13	Providing sewerage Treatment Plant at Ganguwal.	159.20	No.725/B-5/Bhakra/8/2P dated 22.4.2005	30.00	0.10	80.00
14	Replacement of Wooden barrack with pucca barrack P.A.P.Staff with Pucca Barrack at Kotla .	22.44	No.30851/B-5/Kotla/2P dated 8.11.2012	0.61	0.10	22.00
15	Construction of boundary wall around S&T complex at Ganguwal.	27.70	No. 20517-22/B-5/Bhakra/ 2P dated 15.10.2008	0.70	0.10	27.00
16	R&R of 3 MVA, 33/11 KV T/F with 4 MVA at 33 KV switchyard Ganguwal Power House.	46.00	No. 813/B-2251/Action Plan/Gen./2P dt. 26.04.2013	30.00	45.00	1.00
17	R&R of 4 MVA, 33/11 KV T/F at 33 k KVswitchyard Ganguwal Power House.	48.00	No. 757/B-2251/Action Plan/Gen/2P dt. 14.03.2014	10.00	0.00	48.00
18	Providing 2 Nos Submersible pumps at Ganguwal P.H.	75.00	No. 1118/B-2251/Action Plan/Gen./2P dated 11.5.12	4.00	35.00	0.00

19	Providing 2 Nos Submersible pumps at Kotla P.H.	75.00	No. 1118/B-2251/Action Plan/Gen./2P dated 11.05.2012	4.00	35.00	0.00
20	Providing & re-laying premix carpet on the various roads at PH Colonies at Ganguwal & Kotla PHs	38.21	No. 813/B-2251/Action Plan/Gen./2P dt. 26.04.2013	0.00	38.00	0.21
21	Repl. of Static /Electromechanical relay with numerical relays having GPS time synchronisation and DR facility on 220 KV feeders at 220KV, MISS,Ganguwal.	171.00	New Work	150.00	2.00	148.00
22	Repl. of 18 Nos. 245 KV C.Ts installed on 220 KV Ckts at 220 KV, MISS, BBMB,Ganguwal.	74.00	New Work	60.00	1.00	63.00
23	Repl. of 4 Nos. 245 KV, SF-6 breakers with new spring charged type at 220 KV, MISS,Ganguwal.	81.00	New Work	60.00	2.00	60.00
24	Replacement of retro fittings of 14 No. Static/ Electromechanical backup relay with numerical relay on various 220 KV feeders at 220 KV, MISS,Ganguwal.	31.00	New Work	0.00	0.00	31.00
25	Providing of spares of Digital Governor of Unit No.1 at Ganguwal & Kotla Power Houses	400.00	Under Process	100.00	0.00	95.00
26	Procurement of 11 /0.33 KV, 3Phase 420 KVA Dry Type spare T/f for Static Excitation system with Hitachi Units at Ganguwal & Kotla PHs.	80.00	New work	80.00	0.00	80.00

AP

**List of Major Capital Nature Work under Beas Project provided in the Revised Budget Estimates for the year 2014-15 and Budget Estimate for the year 2015-16 in respect of Dehar Power House under S.E. / DPH Circle, BBMB (PW), Slapper.**

(Rs. In lacs)						
Sr. No.	Name of Work	Est. cost	Sanction No. & Date	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
1	Providing fire barriers in cable tunnels, cable spreading area, fire doors at exit & entry of cable tunnels at DPH(Dir. P&D (PP)	30.00	No.1118 dt.24.5.12	53.00	25.00	0.00
2	Providing 1 No Generator shaft with integral thrust face (Runner disc)	645.00	CEG-24/2011-12	100.00	125.00	0.00
3	Providing 4 MVA 132/11 KV transformer & associated equipment by having 132 KV bay at Dehar Switch Yard for a dependable & reliable Power supply to feed the Auxiliaries of DPH S/ yard & BFV chamber.	168.92	No.1616 dt.24.8.2005	0.00	1.00	99.00
4	Laying premix carpeting the road from oxygen Gas Plant to Rest House in Slapper Colony.	37.17	No. 4547-48 Dt. 8/2/2013	0.00	20.00	20.00
5	Laying premix carpeting the road in BBMB Colony Slapper.	32.77	No. 4547-48 Dt. 8/2/2013	0.00	15.00	20.00
6	Replacement of static excitation system of Dehar Unit No. 4 & 6 at DPH	200.00	CEG 60/2012-13.	0.00	200.00	0.00
7	Providing TAN Delta Capacitance measurement instrument at DPH Slapper	34.41	CEG-89/2012-13.	0.00	28.50	0.00
8	Capital mtc. of Dehar Unit No. 3 during the year 2013-14	632.22	CEG-18/2014-15	340.00	425.00	0.00
9	Overhauling of BFV No. 2 controlling Unit No. 3&4.	175.00	No. 813 dt. 26/04/2013	65.00	65.00	100.00
10	Capital mtc. Of rotary valve of Dehar Unit No. 3 & 4 during the year 14-15.	450.00	CEG-78/2013-2014	63.00	80.00	165.00
11	Capital mtc. of Dehar Unit No.5 during the year 2014-15	715.00	Under Process	550.00	600.00	10.00
12	Capital mtc. Dehar Unit No. 4 during the year 2014-15.	715.00	Under Process	650.00	250.00	350.00
13	Capital mtc. of Butter Fly Valve No.3 Controlling Unit 5 & 6.	190.00	Under Process	120.00	0.00	150.00
14	Renewal and replacement of CO2 bank -B at DPH.	342.00	757/B-225/AP/Gen/2P dt.14.3.2014	0.00	1.00	342.00
15	Capital Mtc. of Dehar unit -2 during 2015-16	720.00	U/P	0.00	0.00	300.00

*[Handwritten Signature]*

-185-

16	Capital mtc. of Rotary Valve of Dehar Unit No. 1 & 2 without replacement of trunion bushes during 2015-16	450.00	U/P	0.00	0.00	200.00
17	Capital Mtc. of Dehar Unit -1 during 2015-16	720.00	U/P	0.00	0.00	500.00
18	Providing 1 No. HV testing equipment at DPH	25.80	757/B-225/AP/Gen/2 P dt.14.3.2014	28.40	25.80	0.00
19	Providing & laying water treatment on the roof of Dehar Power House Building at Slapper.	48.75	SE/DPH/EST-16/2014-15	40.00	48.75	0.00
20	RLA Study of various equipment at Dehar Power House Slapper.	310.00	U/P	0.00	10.00	300.00
21	Replacement of old existing stator of Unit No. 6 with new one latest design at DPH Slapper.	3914.62	18081-84/B/Bhaskra/2P dt.26.06.2014	0.00	0.00	914.62
22	Repair & Mtc. of Rotary valve of Unit No.5	50.00	U/P	0.00	0.00	50.00
23	Replacement of 5 Nos. machine breakers at Dehar S/Yard BBMB (PW), Slapper.	147.81	CEG-44/2010-11.	135.00	135.00	0.00
24	Replacement of 6 No. ABCB at DPH Slapper.	225.00	No.1736 dt.28.7.11	225.00	225.00	0.00
25	Revised estimate for replacement of roofing of E-4 type (25) & SL-4 type (13) Qtrs. in BBMB colony at Slapper.	65.97	CEG-70/2012-13	33.00	1.00	37.00
26	Revised estimate for replacement of roofing of SL-2 type Qtrs. at Slapper colony.	70.82	CEG-71/2012-13	0.00	1.00	40.00
27	Procurement of BHEL spares for rotary valves, Turbines spares.	237.00	No.542 Dt. 16/09/2010.	0.00	25.50	0.00
28	Procurement of one set of HVOF coated & 3 sets without HVOF coated top & bottom labyrinth alongwith fasteners for DPH	480.00	No.557 dt.20.5.2011	0.00	107.00	0.00
29	Procurement of BHEL spares for rotary valves, Turbines spares for all 6 No. machines at DPH.	424.67	No.606 dt.20.3.13	0.00	100.00	0.00
30	Procurement of Governors spare for newly commissioned Micro Processor basis digital electro hydro Governors.	45.61	No.615 dt. 8.07.2013	0.00	45.61	0.00-
31	Procurement of 4 No. shaft sleeves for Dehar Machines	90.00	AT-630 dt.10.6.2014	32.00	90.00	0.00
32	Procurement of BHEL spares for rotary valve and turbine	237.00	AT No.498 dt.4.3.2008	0.00	25.00	0.00

78

186

33	Procurement of BHEL sparaers at DPH Slapper.	100.00	No.633 dt.17.7.14	125.00	100.00	0.00
34	Procurement of 2 sets of Top & Bottom Labyrinths alongwith studs, nuts, copper washers, rubber cord and fixtures for Dehar Power House Slapper.	354.00	Under Process	0.00	25.00	200.00
35	Procurement of 3 sets of Thrust Bearing Pads suitable for Units of Dehar Machines.	115.00	No 633 dated 17.7.14	0.00	115.00	0.00
36	Procurement of 1 No. 60 MVA 11/400// $\sqrt{3}$ KV& 1 No. 11/220 KV/ $\sqrt{3}$ KV Generator Transformer for DPH Slapper to be kept as spare.	1000.00	Nil	0.00	0.00	1000.00
37	Procurement of spares parts CWP of Dehar Machines	36.00	Nil	0.00	1.00	35.00
38	Procurement of Studs & Nuts for Shaft Gland System of Dehar Unit No. 1 to 6.	40.00	Case for A&A submitted.	0.00	0.00	40.00
39	Procurement of spares for turbines & rotary valves from M/s BHEL	300.00	Nil	0.00	0.00	200.00
40	Air conditioning of TG Pannel area at DPH.	80.00	No.1118 dt.24.5.12	110.00	80.00	0.00
41	Replacement of 7 No. 30 point recorders and 6 No. 24 point recorder used for recording of temperature of various part including electrical para meters of Dehar Machines and lines.	72.60	U/P	0.00	0.00	72.60

28

List of Major works of Capital Nature chargeable to Revenue Accounts Heading under Major Head 2801 Power Hydel Generation and 2805 Transmission distribution expenditure accounts heading provided in the Budget Estimate for the year 2015-16 and Revised Budget Estimates for the year 2014-15 in respect of RE/ PPH Division (PW) Talwara under Pong Power House Circle, BBMB (PW), Talwara.

(Rs. In lacs)						
Sr. No.	Name of Work	Est. cost	Sanctioned No. & Date	Original Budget Estimates 2014-15	Revised Budget Estimates 2014-15	Proposed Budget Estimates 2015-16
1	Providing 1 No. additional 500 KVA, 0.4 KV D.G. set alongwith allied equipments, control panel etc. and 2 No. submersible de-watering pumps of 10,000 LPM capacity each at PPH, Talwara. (include the cost of 1 No. DG set= 35.03 Lacs & 2 No. Submersible pumps= 75.00 Lacs	110.00	No.1736/B/2251/AP/Gen./2P dt. 28.07.2011.	50.00	0.10	28.00
2	Supply of 2 No. Stator Air Coolers.	35.00	No. 1736/B/2251/AP/Gen./2P dt. 28.07.2011	0.00	33.00	0.00
3	Replacement of existing Generator Protection of unit No.I, II & IV to VI with Numerical Generator protection having built in disturbance recorder and event logger at PPH Talwara.	286.00	No. 18637-40/B5/BH/2 P dt 01.07.2014	40.00	1.00	250.00
4	Procurement of 2 No. 3-phase 75 MVA, 11/220KV, outdoor type oil immersed water cooled Generator Transformer for Pong Power House, Talwara.	1500.00	No.1118/B-2251/AP/Gen./2P dt 11.5.12.	445.83	475.00	0.00
5	Replacement of 2 Nos. 245 KV SF-6 Gas Circuit Breakers rating 31.50 Amp. Type 3 AP IFI make Siemens in respect of Unit No.5 & 6 with new SF-6 Gas Circuit Breakers.	30.00	No.1118/B-2251/AP/Gen./2P dt 11.5.12.	25.00	5.00	25.00
6	Balance 2 Nos. 75 MVA 11/220 KV generator transformer for PPH Talwara to be procured during 2015-16 for which provision of token money has been made.	1600.00	No. 813/B/2251/AP/Gen./2P dt. 26.04.2013	800.00	759.00	41.00



7	Replacement of existing Electro Hydraulic Governor G-25 & analogue type electronic cabinet with latest microprocessor based Digital type Electro Hydraulic Governor System of Unit No. 1 to 6 at PPH Talwara.	1300.00	No. 813/B/2251/ AP/ Gen./2P dt. 26.04.2013	100.00	1.00	500.00
8	Capital Mtc. of Unit No.3 at PPH.	365.00	No. 6875/B-5/ BH-2P dt.	200.00	200.00	165.00
9	Procurement of 18 Nos. 220 KV, CT's installed at Pong Switchyard Talwara.	55.00	No. 813/B/2251/ AP/ Gen./2P dt. 26.04.2013	35.00	50.00	5.00
10	Modernization of 3 Nos OTIS make Elevators installed at penstock emergency gate shaft of PPH ( Elevators No. 52 NE - 0741, 52 NE -0742 & 52 NE - 0743 )	99.50	No. 757/B/2251/ AP/ Gen./2P Dt. 14.03.2014	40.00	0.10	60.00
11	Replacement of existing electromagnetic protection panel with panel having numerical relays of 1) 40MVA,220/66 KV T/f 2) 4MVA 66/11 KV T/f at 220 KV switchyard of PPH.	25.00	No. 757/B/2251/ AP/ Gen./2P Dt. 14.03.2014	25.00	0.10	25.00
12	Design manufacturing supply and erection, testing and commissioning of continuous Online Vibration, Monitoring and processing system complete with allied accessories etc, for all the 6 No. Hydro Generator of Pong Power Plant.	46.00	No. 757/B/2251/ AP/ Gen./2P dt. 14.03.2014.	0.00	1.00	45.00
13	Replacement of existing 66/11 KV, 4 MVA (Power Wing Transformer) at Switchyard of PPH Talwara.	45.00	New Work	0.00	0.00	45.00
14	Refund of Rs 5720013/- out of 1.64 crores deposited by HPSEB in 1993-94 for provision of 20 MVA Power system in industrial Area Sansarpur Terrace Distt. Kangra HP.	100.64	Under Process	0.00	57.21	0.00

*Handwritten signature*

189

**List of Major Works & Mtc. chargeable to Revenue Account Under Major Head 2801-05 for the year 2014-15 (Revised) and for the year 2015-16 (Proposed) under Chief Engineer/ Transmission System for Bhakra Left, Bhakra Right and Beas Project.**

(Rs. In lacs)						
Sr. No.	Name of Work	Est. Cost.	Sanction No. & Date.	Original Budget Estimate 2014-15	Revised Budget Estimate 2014-15	Proposed Budget Estimate 2015-16
1	Replacement of 14 Nos 245 KV Isolator and 7 Nos line isolator with earth switch pneumatically operated with new motor operated type at 400 KV S/Stn. BBMB Panipat.	48.95	No. 758 Dt. 14.03.2014	48.95	0.10	47.95
2	Replacement of 20 No. 33 KV Isolator and 6 No. line Isolator with earth switch with new Isolator at 400 KV S/Stn. BBMB Panipat.	30.25	No. 758 Dt. 14.03.2014	30.25	0.10	30.15
3	Overhauling of 6 No. 400 KV Breaker X-1 to X-6 at 400 KV S/Stn. Panipat.	68.18	A&A under process	0.00	1.00	67.08
4	Repair of 1 No. 150 MVA, 400/220 KV T/f T-1 from M/s TELK 400 KV Breaker X-1 & X-2 at 400 KV S/S Panipat.	179.00	A&A No. 13156-58 dt. 12-5-14	0.00	50.00	129.00
5	Providing of NIFPES system on 220/33KV, 60 MVA Transformer, T-2 at 400 KV sub station BBMB Panipat.	24.00	Included in action plan 2015-16	0.00	0.00	24.00
6	Procurement of 71.66 MVAR Reactor at 400 KV Sub-Station, Panipat for replacement of damaged reactor.	400.29	NCW-6/ 2014-15	450.00	400.00	0.29
7	Replacement of old critical 0.3 Sq. Goat Conductor of R/Road Narela circuit line I & II.	347.00	No. NCW-65/ 03-04	250.00	0.10	10.00
8	Replacement of 1 No. 8MVA 132/11 KV HHE make T/f at 220 KV substation, Narela.	120.00	No. 758 dt. 14.3.14	1.00	1.00	119.00
9	Prov. 132 KV LV side bay of 220/132KV 100 MVA T/F T-4 at 220 KV S/Stn. KKTRA.	40.00	No. 994 dt. 20.04.12	20.00	0.10	35.00
10	Replacement of 32.50 MVA 132/11 KV T/f with 10/16 MVA 132/11 KV T/f at 220 KV S/Stn. Kurukshetra.	150.00	No. 758 dt. 14.03.2014	1.00	1.00	150.00
11	Replacement of conventional disc insulators with polymer insulators of 220 KV Panipat - Narela CKT I & II	57.62	No. 994 dt. 20.04.12	17.62	0.10	27.62

SR

12	Providing additional gravels after relaying of existing gravels in 220 & 33KV yard at 400 KV S/Stn, BBMB, Panipat.	19.85	Revised A&A under process	14.85	2.00	75.00
13	Hot line washing of 400KV & 220KV Yard Equipments at 400 KV S/Stn. BBMB Panipat.	15.52 18.00	No. 758 dt. 20.04.2014	18.36	25.00	12.00
14	Carrying out the Hot line washing of most critical towers of 400 KV Dehar-Panipat Line.	37.40	No. 758 dated 20.04.2014	37.40	23.00	25.00
15	Replacement of 1 No. 20 MVA 66/33 KV Savoisenue make transformer at 220 KV S/Stn., Dhulkote.	150.00	No. 758/B-2251 /Action Plan /TS/2P dt. 14.3.14	125.00	2.00	130.00
16	Replacement of 2 No. 45/60 MVA 220/66 KV Mitshubishi make T/f at 220 KV S/Stn., Dhulkote.	1000.00	No. 758/B-2251 /Action Plan /TS/2P dt. 14.3.14	500.00	2.00	1.00
17	Estimate for providing 220 KV Bus Bar Protection at 220 KV Sub Station BBMB Sangrur.	30.00	No 814/B-2251 /Action Plan /TS/2P dt. 26.4.13	30.00	5.00	25.00
18	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Jalandhar.	42.00	No. 758/B-2251 /Action Plan /TS/2P dt. 14.03.14	41.50	1.00	41.00
19	Providing Nitrogen injection fire prevention and extinguishing system (NIFPES) on power T/Fs at Sangrur.	42.00	No 758/B-2251 /Action Plan /TS/2P dt. 14.03.14	41.50	1.00	41.00
20	Estimate for replacement of 13 No. 245 KV, 16 No. 132 KV & 11 No. 66 KV Isolators installed on various feeders / transformers at 220 KV Sub Station BBMB Jalandhar.	84.32	No 758/B-2251 /Action Plan /TS/2P dt. 14.03.14	2.00	2.00	70.00
21	Estimate for replacement of 8 No. 220 KV Bus Isolators & 3 No. 220 KV Line Isolators at 220 KV S/Stn. BBMB Sangrur.	29.80	A&A under sanction for 14-15	2.00	2.00	27.63
22	Estimate for replacement of 26 No. 66 KV Bus Isolators & 9 No. 66 KV Line Isolators at Sangrur.	69.40	A&A under sanction for 14-15	2.00	2.00	42.00
23	Estimate for overhauling of 10 No. 66 KV ABB make SF-6 Breakers installed at 220 KV Sub Station of BBMB Jalandhar.	25.86	To be Included in the Action Plan for the year 2015-16.	0.00	0.00	25.86

SP

191

24	Est. for replacement of 11 No. 220 KV, 6 No. 132 KV & 10 No. 66 KV Isolators at Jalandhar sub station.	54.00	No. 2082/B-2251/ Action Plan/TS/2P dt.9.8.10	26.00	2.00	31.00
25	Est. for replacement of existing 220 KV Bus Bar protection scheme with new microprocessor controlled scheme at 220 KV substation, BBMB, Jalandhar.	81.19	No.758/B-2251/Action Plan/TS/2P dt.14.3.14	89.90	5.00	76.19
26	Replacement of 10 nos old electro mechanical distance protection relays for 220KV lines at Jamalpur	40.00	No. 1798/B-2251/Action plan/TS/2P dated 11.08.11	16.50	40.00	0.00
27	Replacement of old electro mechanical 12 No. Backup protection relays for various transformers at Jamalpur	27.50	No. 1798/B-2251/Action Plan/TS/2P dated 11.08.11	12.50	27.50	0.00
28	Replacement of existing static bus bar / L.B.B protection scheme at 220 KV S/stn. BBMB, Jamalpur with numerical protection scheme as per recommendation of Protection Audit.	83.61	No. 758/B-2251/Action Plan/TS/2P dt. 14.03.14	67.00	5.00	78.61
29	Providing 6 No. 220 KV PTs controlling 220 KV Bhakra-Jamalpur Ckt. I & II for 220 KV Substation, BBMB, Jamalpur.	30.00	No. 5697-5700/B-5/ Jamalpur/2P dt. 20.2.14	30.00	0.00	26.87
30	Providing 4 No. Nitrogen Injection and fire prevention system for T/F at 220 KV substation BBMB, Jamlapur Ludhiana.	84.00	No. 758/B-2251/Action plan/TS/2P dt. 14.03.14	84.00	1.00	83.00
31	Replacement of 4 No. ABCBs, 220KV Air Blast Circuit Breakers with new SF-6 Breaker at 220KV S/Stn. Barnala.	64.50	Included in the Action Plan 2015-16	2.00	0.00	64.50
32	Re-conductoring of 220 KV Bhakra-Jamalpur DC line with AAAC-465 mm sq, conductor1)Hardware fitting2)160KN 90KN Normal & 90KN Anti fog insulators.3) 535 kms. AAAC-465 mm-sq Conductor.4)Additional Disc Insulator to cover 100% replacement.5) Erection of 3 No. Towers at Bhakra 6) Labour charges for carrying out the re-conductoring work	995.78	No. 2514/B-5/JMP/5/2P Dt. 28.12.06	175.00	20.00	150.00

24

33	Installation of Centralized Air Conditioned System in Admn. Block of SLDC Complex BBMB, Chandigarh.	142.70	Included in Approved Action Plan 2014-15	25.00	0.20	142.50
34	Level raising of 2 No. main Road connected to NH-22 Ambala-Chandigarh Highway to New BBMB Colony with construction of aqua duct for carrying flooding water.	32.00	Work to be included in the action plan 2015-16	0.00	0.00	32.00
35	Reconstruction of remaining tilted boundary wall around Sub Station and Store at Sangrur Sub Station	31.00	No. 17933-36 dt. 25.06.2014.	0.00	1.00	30.00
36	Estimate for providing bitumen coat on existing metalled road at 220 KV Sub-Stn. BBMB, Jamalpur 24200443	33.12	Est. under process	0.00	0.00	33.12
37	Estimate for construction of new overhead storage reservoir at 220 KV S/Stn. BBMB, Barnala	28.75	No. 21957-60 dt. 04.08.14	0.00	28.75	0.00
38	Providing new deep bore tubewell in place of dried and abandoned tubewell at colony BBMB Dhulkote.	34.00	under process	0.00	34.00	1.00
39	Replacement of 35 No. 33 KV Isolators /Isolator-cum-earth switches with new Isolators at 220 KV S/Stn. Hisar	39.00	No. 2082 dt. 09.08.10	2.00	2.00	37.00
40	Replacement of 27 No. 132 KV 2 Core CTs with new 5 Core CTs at 220 KV Sub Station Hisar	41.40	No.994 dt. 20.04.2012	1.00	26.97	0.00
41	Replacement of 1 No. 2 MVA 33/11 KV Transformer with new Transformer at 220 KV sub Station Hisar	30.00	No.994 dt. 20.04.2012	25.00	25.00	0.00
42	Replacement of Zebra conductor with Trantulla conductor of Bus I & II at 220KV Sub station, Hisar.	44.21	No.994 dt. 20.04.2012	31.00	20.00	24.00
43	Replacement of Bus-bar protection relay with numerical Bus-bar protection relay at 220 KV Substation, BBMB, Ballabgarh.	34.59	No.758 dt. 14.03.2014.	1.00	0.10	34.49
44	Replacement of 1 No. 2 MVA, 33/11KV EMCO make T/f at 220 KV S/Stn., BBMB, Ballabgarh.	25.00	No.758 dt. 14.03.2014.	25.00	0.10	25.00
45	Replacement of ACSR conductor 0.4 Sq inch of 220 KV Ballabgarh-BTPS D/C line under SDO TL Ballabgarh	400.00	No. 1798 dt. 11.8.11	350.00	1.00	20.00

98

-193-

46	Replacement of conventional type disc. Insulator with polymer insulator on left over suspension towers of 220KV B/Garh-Dadri & S/pur-Dadri lines.	132.00	No.994 dt.20.4.12	102.00	1.00	60.00
47	Replacement of existing water supply pipe line with CPC pipe in BBMB, Colony, Ballabgarh.	43.30	No. 758 dt. 14.02.14	2.65	0.00	40.00
48	Replacmenet of 400 KV SF-6 Brekaer (X-3) BHEL make controlling 400 KV Bus Reactor at 400 KV sub Station Bhiwani	52.00	No. 1798 dt. 11.8.11	45.00	35.00	2.00
49	Overhauling of 8 No. 245 KV CGL make SF-6 gas ckt. Breaker under SSE/220KV BBMB, Bhiwani.	73.89	NCW-70/2013-14	60.60	1.00	50.00
50	Estimate for replacemnt of RCC slab of category B (5 No.) & category-C (6 No.) type quarters at 220 KV at Ch.Dadri.	63.72	No.8796-98 dated 21.03.2014.	40.00	2.00	38.00
51	Replacement of barbed wire with concertina wire alongwith Y shape angle iron & raising of compound wall 2' height in yard area at 400KV Substation, BBMB, Bhiwani.	46.03	No.8796-98 dated 21.03.2014.	17.59	1.00	35.00
53	Replacement of 28 No. 245 KV pneumatic controlled Isolators with motorised controlled at 220 KV sub station Dadri.	69.00	No. 2082 dt. 09.08.10	0.00	69.00	0.00
54	Replacement of 132/11KV 8/4/4 MVA T/F with new 132/11 4MVA Transformer at 220KV Sub Station, Dadri.	85.50	No. 994 dt. 20.04.12	85.00	1.00	60.00
55	Overhauling of 3No. 145KV ABB make SF-6 Ckt. Breaker at 400KV Substation, BBMB, Bhiwani & 7 No. ABB make 245KV SF-6 Ckt. Breakers at 220 KV Ch.Dadri.	73.37	No.758 dt 14.03.14	50.00	60.00	13.22
56	Overhauling of 1 No. CGL make 245 KV SF-6 Ckt. Breaker controlling 220KV Mohindergarh Ckt. and No. Alstom/CGL make 145KV SF-6 Ckt. Breaker controlling 220/132KV 100MVA T/F T-1, T-2 at 220 KV GSS, BBMB, Ch.Dadri.	27.28	No.758 dt 14.03.14	36.79	27.28	0.00

2

-194-

57	Annual Mtc. for Residential & Non-residential buildings including colony services at 400 KV sub station, BBMB, Bhiwani.	53.70	NCW-65/2014-15	29.50	26.70	27.00
58	Replacement of conventional/Antifog type disc insulator's with Polymer Insulator of 220 KV Panipat-Dhulkore Ckt-I &II and 220 KV Panipat-Kurukshetra S/C Line.	334.00	A&A awaited	0.00	0.00	134.00
59	Replacement of ZFB relay test kit with new automatic 3 Ph. Relay test kit at P&T Cell, Chandigarh.	28.00	Work to be included in the Action Plan 2015-16	0.00	0.00	28.00
60	Replacement of 4 No. BPL make PLC terminal alongwith BPL-6710 Protection coupler for Ballabhgarh-Samaypur Line under CC S/Divn., Ballabhgarh.	26.00	Work to be included in the Action Plan 2015-16	0.00	0.00	26.00
61	Replacement of old Shivananda make Tan Delta Test set at P&T Cell, BBMB, Panipat.	31.24	No.758 dt.14.03.14	0.00	26.00	0.24
62	Replacement of old Shivananda make Tan Delta Test set at P&T Cell, BBMB, Bhiwani.	32.00	Work under approval in Action Plan 2015-16	0.00	0.00	32.00

PR

**Major Head 4700 Capital Outlay on Major Irrigation (BBMB Portion)**

Head of account	Actual Expenditure for the year 2013-14	Original Budget Estimates for the Year 2014-15	Revised Budget Estimates for 2014-15 (₹ in Lac)	Budget Estimate for the year 2015-16
-----------------	--------------------------------------------------	---------------------------------------------------------	-------------------------------------------------------------	-----------------------------------------------

**Bhakra**

Major works	3.46	0.11	0.11	0.11
Minor works				
Machinery & Equipment	-0.25	0.40	0.40	0.40
Losses written off		0.50	0.50	0.50
Total works	3.21	1.01	1.01	1.01
Suspense				
Debit				
Stock	40.25			
Purchases	2.12			
P.W Misc.Advance	72.23			
Workshop Suspense	73.12			
Total debits	187.72			
Credit				
Stock	66.11			
Purchases	9.53	0.50	0.50	0.50
P.W Misc.Advance	107.29			
Workshop Suspense	73.12			
Total credits	256.05	0.50	0.50	0.50
Net debit to suspense	-68.33	-0.50	-0.50	-0.50
Deduct R & R on C/A	0.24	20.21	20.31	20.31
<b>total Unit no 1 Bhakra Dam</b>	<b>-65.36</b>	<b>-19.70</b>	<b>-19.80</b>	<b>-19.80</b>

Share between Partner State Govts

Punjab	-33.25	-10.02	-10.07	-10.07
Haryana	-22.16	-6.68	-6.72	-6.72
Rajasthan	-9.95	-3.00	-3.01	-3.01

**Beas Project**

**Unit-II Pong Dam Tlw**

Major Works	63.14	131.00	81.00	81.00
Net Works Chargeable to Capital	63.14	131.00	81.00	81.00
losses written off				
Suspense	-5.18			
Deduct R & R on C/A		2.00	2.00	2.00
Total	57.96	129.00	79.00	79.00
Deduct share debitable to Power wing	37.48	30.32	18.57	18.57
Balance chargeable to IB	20.48	98.68	60.43	60.43
Add share transferred from Power wing				

**Grand total Unit No 2**

	20.48	98.68	60.43	60.43
--	-------	-------	-------	-------

Share between Partner State Govts

Punjab	5.10	24.57	15.05	15.05
Haryana	3.40	16.38	10.03	10.03
Rajasthan	11.98	57.73	35.35	35.35

**Beas Project Unit-II**

**Grand Total**

	20.48	98.68	60.43	60.43
--	-------	-------	-------	-------

Share between Partner State Govts

Punjab	5.10	24.57	15.05	15.05
Haryana	3.40	16.38	10.03	10.03
Rajasthan	11.98	57.73	35.35	35.35

Chargeable to Power Wing  
share from Irrigation wing



Grand total Unit No 2

	37.48	30.32	18.57	18.57
	Share between Partner State Govts			
PSPCL	1.57	7.55	4.63	4.63
HVPNL	21.88	5.03	3.08	3.08
RVPNL	14.03	17.74	10.86	10.86

SP

**B. Non Tax revenue III Economic Services 0700 Revenue Receipt**

Particulars	Actual Receipt for the year 2013-14	Budget Estimate for the year 2014-15	Revised Budget Estimate 2014-15	Budget Estimate for the year 2015-16
(₹In Lac)				

**Bhakra Dam unit No 1**

Gross receipt	383.42	565.62	645.85	673.95
Deduct Share creditable to Power wing	191.71	282.81	322.93	336.98
<u>Net irrigation receipt</u>	191.71	282.81	322.92	336.97
Share between Partner State Govts				
Punjab 60%	97.52	143.86	164.26	171.41
Haryana 40%	65.01	95.91	109.51	114.27
Rajasthan 15.22%	29.18	43.04	49.15	51.29

**Unit no 3 Nangal hydel Channel**

Gross receipts	0.73	0.55	0.85	1.10
Deduct share creditable to Power Wing	0.37	0.28	0.43	0.55
<u>Net Irrigation receipt</u>	0.36	0.27	0.42	0.55
Share between Partner State Govts				
Punjab 60%	0.17	0.13	0.20	0.27
Haryana 40%	0.12	0.09	0.14	0.18
Rajasthan 19.06%	0.07	0.05	0.08	0.10

**Total receipt Unit No 1 & 3**

Gross Receipt	384.15	566.17	646.70	675.05
Deduct share creditable to Power Wing	192.08	283.09	323.35	337.53
<u>Net Irrigation Receipt</u>	192.07	283.08	323.35	337.52

Share between Partner State Govts

Punjab	97.69	143.99	164.46	171.68
Haryana	65.13	96.00	109.65	114.45
Rajasthan	29.25	43.09	49.23	51.39

<u>Supply of raw water to DWSU</u>	703.15	600.00	750.00	600.00
------------------------------------	--------	--------	--------	--------

Share between Partner State Govts

Punjab 60%	357.68	305.21	381.51	305.21
Haryana 40%	238.45	203.47	254.34	203.47
Rajasthan 15.22%	107.02	91.32	114.15	91.32

**Total Bhakra Dam Receipt**

Deduct share creditable to Power Wing	192.08	283.09	323.36	337.53
<u>Balance Irrigation receipt</u>	895.22	883.08	1073.34	937.52

Share between Partner State Govts

Punjab	455.37	449.20	545.97	476.89
Haryana	303.58	299.47	363.99	317.92
Rajasthan	136.27	134.41	163.38	142.71

**Beas Project Revenue Receipt Irrigation Wing**

**Unit No 1 BSL**

Gross receipt	157.08	401.43	230.36	207.27
Deduct Share creditable to Power wing	147.66	377.34	216.54	194.83
Net irrigation receipt	9.42	24.09	13.82	12.44
Add share transfer from Power Wing	34.44	1.56	1.08	1.08
<u>Total receipt BSL Unit No1</u>	43.86	25.65	14.90	13.52

Share between Partner State Govts

Punjab	51%	22.37	13.08	7.60	6.89
Haryana	34%	14.91	8.72	5.06	4.60
Rajasthan	15%	6.58	3.85	2.24	2.03

**Unit no 2 Pong Power Plant, Talwara**

Gross receipts	427.46	432.60	418.05	432.60
Deduct share creditable to Power Wing	100.45	101.66	98.24	101.66
Net Irrigation receipt	327.01	330.94	319.81	330.94
Add share Transfer from Power wing	35.30	2.30	5.36	5.36
<b><u>Net Revenue Receipt Unit No2</u></b>	<b>362.31</b>	<b>333.24</b>	<b>325.17</b>	<b>336.30</b>
Share between Partner State Govts				
Punjab	24.9%	90.22	82.97	80.97
Haryana	16.6%	60.14	55.32	53.98
Rajasthan	58.5%	211.95	194.95	190.22
				196.74

**Total Beas Project receipt Unit No 1 & 2**

Gross Receipt	584.54	834.03	648.41	639.87
Deduct share creditable to Power Wing	248.11	479.00	314.78	296.49
Net irrigation Receipt	336.43	355.03	333.63	343.38
Add share Transfer From Power wing	69.74	3.86	6.44	6.44
<b><u>Total Beas Project receipt Unit No 1 &amp; 2</u></b>	<b>406.17</b>	<b>358.89</b>	<b>340.07</b>	<b>349.82</b>
Share between Partner State Govts				
Punjab	112.59	96.05	88.57	90.63
Haryana	75.05	64.04	59.04	60.42
Rajasthan	218.53	198.80	192.46	198.77

**B. Non Tax revenue III Economic Services 0801 Revenue Receipt**

**Power Hydel Generation**

**Particulars**

Actual Receipt 2013-14	Budget Estimates 2014-15	RBE for the year 2014-15	Budget Estimates 2015-16
------------------------------	--------------------------------	--------------------------------	--------------------------------

**Revenue Receipt Power Wing Bhakra Complex**

Sale of Power	29894.90	28060.00	32825.00	34032.00
Other Receipt	891.43	73.00	200.00	80.00
Total Power Wing Receipt	30786.33	28133.00	33025.00	34112.00
Add share transfer from Irrigation wing	192.08	283.09	323.35	337.53
<b><u>Grand total Power Wing Receipt to be shared by all partner Elec.Boards</u></b>	<b>30978.41</b>	<b>28416.09</b>	<b>33348.35</b>	<b>34449.53</b>

Share between Partner State Govts

PSPCL	51.80%	13604.49	12479.22	14645.27	15128.87
HVPNL	37.51%	9851.44	9036.59	10605.10	10955.29
RVPNL	15.22%	4714.91	4324.93	5075.62	5243.22
HPSEBL	7.19%	1888.35	1732.15	2032.81	2099.93
UT, Chandigarh	3.5%	919.22	843.19	989.55	1022.22

**Beas Project Power Wing**

**1. Dehar Power Plant**

Sale of power	22.28	30.00	21.00	21.00
Other Receipt	574.05	26.00	18.00	18.00
Total Receipt	596.33	56.00	39.00	39.00
Deduct Share debitible to Irrigation Wing	34.44	1.56	1.08	1.08
Balance Receipt	561.89	54.44	37.92	37.92
Add Share Transfer from Irrigation Wing	147.66	377.34	216.54	194.83
<b><u>Total Revenue Receipt Dehar Power House</u></b>	<b>709.55</b>	<b>431.78</b>	<b>254.46</b>	<b>232.75</b>

Share between Partner State Govts

PSPCL	51.80%	294.04	178.93	105.45	96.45
HVPNL	37.51%	212.92	129.57	76.36	69.84
RVPNL	20.00%	141.91	86.36	50.89	46.55
HPSEBL	7.19%	40.81	24.84	14.64	13.39

EP

199

UT, Chandigarh 3.5%	19.87	12.09	7.12	6.52
<b>UNIT NO 2 PONG POWER PLANT</b>				
Sale of Power	16.08	17.00	18.00	18.00
Other Receipt	46.14	70.00	7.00	7.00
Total Receipt	62.22	87.00	25.00	25.00
Deduct Share debitable to Irrigation Wing	35.30	2.30	5.36	5.36
Balance Receipt	26.92	84.70	19.64	19.64
Add Share Transfer from Irrigation Wing	100.45	101.66	98.24	101.66
<u>Total Revenue Receipt Dehar Power House</u>	<u>127.37</u>	<u>186.36</u>	<u>117.88</u>	<u>121.30</u>
Share between Partner State Govts				
PSPCL 51.80%	27.38	40.06	25.34	26.08
HVPNL 37.51%	19.83	29.01	18.35	18.88
RVPNL 58.50%	74.51	109.02	68.96	70.96
HPSEBL 7.19%	3.80	5.56	3.52	3.62
UT, Chandigarh 3.5%	1.85	2.71	1.71	1.76
<b>Beas Transmission Lines</b>				
Total receipt	935.06	70.00	48.00	48.00
Share between Partner State Electricity Boards				
PSPCL 28.72%	204.64	15.32	10.51	10.51
HVPNL 60.59%	431.72	32.32	22.16	22.16
RVPNL 23.80%	222.54	16.66	11.42	11.42
HPSEBL 7.19%	51.23	3.84	2.63	2.63
UT, Chandigarh. 3.5%	24.94	1.87	1.28	1.28
<u>Total Revenue Receipt Beas Project Power Wing</u>	<u>1593.61</u>	<u>213.00</u>	<u>112.00</u>	<u>112.00</u>
Deduct Share Creditable to Irrigation wing	69.74	3.86	6.44	6.44
Balance Receipt	1523.87	209.14	105.56	105.56
Add share transfer from Irrigation wing	248.11	479.00	314.78	296.49
<u>Total Revenue Receipt Beas Project Power Wing</u>	<u>1771.98</u>	<u>688.14</u>	<u>420.34</u>	<u>402.05</u>
Share between Partner State Electricity Boards				
PSPCN	526.06	234.31	141.30	133.04
HVPNL	664.47	190.90	116.87	110.88
RVPNL	438.96	212.04	131.27	128.93
HPSEBL	95.84	34.24	20.79	19.64
UT, Chandigarh	46.66	16.67	10.11	9.56

SP

**Statement Showing the Outstanding dues against  
Common Pool Consumers as on 30.09.2014.**

₹ in lacs

Sr. No.	Name of Consumer	Amount Outstanding
1	RRF (through RRVPNL)	9074.77
2	HPSEBL	54.94
3	U.T. Chandigarh	12388.20
4	Jammu & Kashmir	1795.44
5	D.T.L. (DESU)	115.97
6	HVPNL (HSEB)	316.86
7	Others	18.16
	<b>Total</b>	<b>23764.34</b>



Brief status of major outstanding dues is as under:

**UT Chandigarh – 3.5% allocation out of the share of composite Punjab from Bhakra Power Houses :- ₹12388.20 lacs**

The arrears of ₹123.88 crores pertain to its 3.5% entitlement out of the share of composite Punjab in Bhakra. These arrears have accumulated because BBMB had been billing at rates varying from 10 P/KWh to 34 P/kWh (PSEB Bulk/ Grid supply Rate) from 02.05.1967 to May, 2006, but U.T. had been releasing payment @ 5.63 P/kWh (Partner's exchange rate before global accounting i.e. 01.04.1977) on the plea that it is a successor state of Punjab. However, after lot of pursuance, U.T. Chandigarh was made to agree to make payments at the O&M charges rate of Bhakra system from 6/2006 onwards and it is making payments regularly. The matter is also being pursued to make payment for the period 5/67 to 5/06 also at actual O&M cost of Bhakra system. The stand of UT had been that any decision on the same will be taken after their claim for partner is settled.

It is also pertinent to mention here that the matter regarding according partnership status to UT Chandigarh in BBMB is pending before the Ministry of Power, GOI. As per Hon'ble Supreme Court Judgement dt.27.09.2011 in original suit No.2/1996 – State of HP V/s UOI & Ors. Share in power has been given to UT Chandigarh from all power houses of BBMB. In case Ministry of Power accords retrospective partnership status of UT Chandigarh, accounts shall needs to be recasted in respect of UT Chandigarh in a similar fashion as is being done in case of other partners viz. PSPCL, HVPNL & Himachal Pradesh w.e.f. 05/1967.

**RRF (Through RRVPNL) : ₹9074.77 lacs**

These arrears pertain to Sale of Power (5 LU/day) to RRVPNL for fertilizer factory in Rajasthan (RFF). The amount of about ₹50 crores is outstanding because of difference in approved tariff for RFF (which includes the transmission element also) at which BBMB is billing and the rate at which RRVPNL is making payments since 1.1.85 i.e. at NFL rate (without transmission element) on the plea that they are partner in BBMB and have already borne the cost of its Transmission system. Number of meetings were held between BBMB & RRVPNL (even at top level) but matter could not be resolved. Rajasthan desired that the issue may be referred under Rule-7 which relates to Inter-State disputes. Matter stands referred to Director (Hydel), Ministry of Power, Govt. of India vide Special Secretary, BBMB letter dt.13.1.2000 for obtaining the legal opinion of Ministry of law, Justice & Company affairs, as to whether the issue of transmission losses & wheeling charges for Power supply to RFF, raised by Rajasthan, is referable

under Rule-7 of BBMB Rules or not. Reply in this regard is awaited. The matter was again deliberated in the 202th meeting of Board wherein it was decided that status-quo may be maintained till comments of MOP are received on earlier reference dt.13.01.2000.

In addition to above, the dues of about ₹40 crores have accumulated due to the delayed payments by 3-4 months by Rajasthan DISCOMs which are non-disputed and are not being paid due to financial crunch. Moreover, payments w.e.f. 1.1.2013 are also made at old tariff applicable as on 31.12.2012. Efforts are being made regularly for the liquidation of above payments.

**J&K : ₹1795.44 lacs**

Supply to J&K Govt. from BBMB has since been stopped w.e.f. 1.4.98 onwards. The outstanding amount pertains to old arrears of Sale of Power, wheeling charges of Central sector Power/ pooled losses.

No payment is forthcoming inspite of lot of persuasions telephonically & protracted correspondence at higher level.

Matter was discussed with Development Commissioner/Power, J&K on the sidelines of various meetings. Matter was also discussed as an Agenda item in the 17<sup>th</sup>, 20<sup>th</sup> and 25<sup>th</sup> Commercial sub-committee meetings of NRPC.

However, no payment is forthcoming.

**Delhi DISCOMs : ₹115.97 lacs**

This amount pertains to wheeling charges of Central Sector Power transmitted through Samaypur Link of BBMB and Baira Siul power drawn by Delhi through BBMB transmission system for the period 1.4.2007 onwards. The matter is being pursued with Delhi DISCOMs regularly.

NDPL (one of Delhi DISCOMs) had filed a petition before the Delhi Electricity Regulatory Commission (DERC) in this regard. DERC vide its order dt.22.02.2013 dismissed the petition with a view it has no jurisdiction over BBMB.

Regular pursuance is being made with Delhi DISCOMs, but payment is not forthcoming. Matter was also discussed in the Commercial Sub-Committee meeting of NRPC wherein it was decided to resolve the issue mutually.

However, Delhi DISCOMs are not honoring the bills of Wheeling charges on the plea that they are regulated entity and thus cannot pay any amount which is not approved by the appropriate Regulatory Commission.

In addition to wheeling charges, BBMB is also claiming Rental charges from Delhi for the utilization of substation equipment at 220 KV Rohtak Road substation of BBMB at mutually agreed rates.

Opinion of Advocates was sought on this issue. As per his opinion, an amendment to the existing petition pending in CERC for the approval of tariff of five transmission lines under Point of connection (POC) mechanism, has been filed for approval of tariff of Rohtak Road Substation & Rohtak Road – Narela section for recovery of transmission charges under the CERC sharing of Transmission charges & losses Regulation.

**HVPNL (HSEB) : ₹316.86 lacs**

This amount pertains to wheeling charges of Bairasiul power drawn by Haryana through BBMB system.

BBMB is claiming wheeling charges for the utilization of its transmission system from the various beneficiaries of Baira Siul HEP including Haryana.

No payment on this account is forthcoming since July, 2000 despite regular pursuance by BBMB.

Haryana is taking plea that they are partner in BBMB and have already borne the cost of its Transmission system.

The matter was also discussed as an Agenda Item in the 17<sup>th</sup>, 20<sup>th</sup> and 25<sup>th</sup> Commercial sub-committee meetings of NRPC wherein it was decided to sort out the issue mutually by arranging meeting with Haryana Power Utility.

Despite regular pursuance, no response in this regard has been received.

It may be brought out that as per the decision taken in NRPC meeting, the concept of wheeling charges have been discontinued w.e.f. September, 2013.



PUNJAB STATE POWER CORPORATION LIMITED

Regd. Office: PSEB Head Office Building, The Mall, Patiala  
O/O Chief Financial Officer, Patiala  
Phone & FAX: 0175-2213223

CIN: U40109PB2010SGCO33

Website: [www.pspcl.org](http://www.pspcl.org)

To

FA & CAO  
BBMB, Chandigarh.

Memo No \_\_\_\_\_ /Dy. CAO/A&amp;R/

Dated: \_\_\_\_\_

**Sub: - Petition for Annual Revenue Requirement & Determination of Tariff  
filed by PSPCL for FY 2015-16 - Deficiencies**

Kindly refer to this office memo no 505/06/A-44 dated 3-12-14 on the subject noted above, vide which the deficiencies pointed out by the PSERC Chandigarh in the tariff petition for the year 2015-16 were conveyed to your office. The reply sent by your office vide letter no 2823/B/FA/BBMB/BB/Vol 33/ 4529-30 dated 8-12-14 was submitted to the PSERC Chandigarh against which the commission has again raised certain deficiencies vide para no 2 (iii) & (iv) (copy attached).

It is therefore, requested that the satisfactory reply to the deficiencies, particularly with details regarding employees cost of 605 employees of PSPCL with BBMB, and may be furnished immediately.

Encl: as above

  
Chief Financial Officer  
PSPCL, Patiala

✓ Endst. No 512 /Dy. CAO/A&RDated 12/12/14

Copy of the above is forwarded to the CE/ARR & TR, PSPCL, Patiala for information and further necessary action please.

  
Chief Financial Office  
PSPCL, Patiala

## STATEMENT SHOWING LOANS FOR GENERATION &amp; R &amp; M SCHEMES FOR THE YEAR 2012-13

## A. REC

Sr.No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2012	Rate of Interest	Additions from 01.04.12 to	Repayment from 01.04.12 to	Closing Balance as on 31.03.2013	Amount of Interest paid
		<b>MUKERIAN</b>						
1	161196	Gen- Mukerian Hydel Project	35,06,97,095	7.00%-12.75%		35,06,97,095	-	2,37,18,263
		<b>LEHRA MOHABBAT</b>						
2	161272	Gen- GHTP-II Lehra Mohabbat	10,78,37,32,247	7.00%-12.75%		2,05,40,43,672	8,72,96,86,041	1,14,27,03,233
		<b>ROPAR</b>						
3	161274	RM&U Ropar	16,58,64,967	8.00%-12.50%		2,76,44,158	13,82,20,800	1,30,51,660
4	161275	R&M Works Ropar	1,76,01,772	11.00%-12.75%		26,07,670	1,49,94,102	19,81,355
5	161354	R&M Gen. Ropar	11,64,03,848	11.00%-12.50%	5,79,300	1,50,83,332	10,18,99,813	1,32,97,605
6	161353	R&M GGSSTP Ropar	42,21,007	11.00%-11.50%		8,44,202	33,76,805	3,49,697
7	161408	RLA Studies Ropar	6,29,13,786	11.00%-12.50%		96,79,046	5,32,34,740	71,40,705
8	162933	R&M Ropar	23,08,22,300	11.00%-12.50%	6,49,43,500		29,57,65,800	3,12,04,472
9	3134315	R&M Ropar	97,84,300	12.50%	5,63,28,400		6,61,12,700	57,85,110
10	161437	R&M Ropar	3,85,62,786	11.00%-12.50%	4,87,200		3,90,49,986	43,12,887
11	3136103	R&M GGSSTP Ropar	0	12.25%-12.50%	3,81,46,000		3,81,46,000	
		<b>BATHINDA</b>						
12	161405	R&M GNDPT Bathinda	2,25,29,54,367	11.00%-12.50%	46,82,19,325	41,20,57,031	2,30,91,16,661	26,76,70,504
13	161349	R&M UBDC	3,20,84,632	11.00%-12.50%		53,47,439	2,67,37,193	35,44,518
		<b>BMB Schemes</b>						
14	161348	R&M Gangwal & Kotla	20,47,04,166	11.00%-12.50%		2,92,43,452	17,54,42,031	2,34,03,656
15	161350	R&M Dehar	1,89,69,476	12.50%		27,09,925	1,62,59,551	23,11,788
16	162914	R&M Bhakra Left Bank	88,51,36,875	12.25%-12.50%	4,44,08,000		92,95,44,875	10,27,08,520
		<b>Total</b>	<b>15,17,44,53,624</b>		<b>67,31,11,725</b>	<b>2,90,99,57,022</b>	<b>12,93,75,87,098</b>	<b>1,64,31,83,973</b>
Less :		AGSP Subsidy (TEO NO . 15,24,37,49 )						37,07,367
Less :		Accrued interest as on 31.03.12 (TEO No.35,36,51 )						1,39,92,215
Add:		Accrued interest as on 31.03.12 (TEO No.39,40. )						1,39,77,875
		<b>Net Interest charged to P&amp;L</b>						<b>1,63,94,62,266</b>

## B. PFC

Sr.No.	Loan No.	Name of Loan	Opening Balance as on 01.04.2012	Rate of Interest	Additions from 01.04.12 to	Repayment from 01.04.12 to	Closing Balance as on 31.03.2013	Amount of Interest paid
		<b>SHANAN POWER HOUSE</b>						
1	5006	SHANAN POWER HOUSE	18,36,832	6.50%-11.50%	-	18,36,849	-	56,716
2	5007	SHANAN POWER HOUSE	4,08,26,481	7.15%-7.75%	-	90,72,559	3,17,53,922	25,98,073
		<b>BATHINDA</b>						
3	4003	R & M U BATHINDA	92,51,78,217	6.80%-12.75%	-	16,82,14,206	75,69,64,011	6,50,87,732
		<b>Total</b>	<b>96,78,41,530</b>		<b>-</b>	<b>17,91,23,614</b>	<b>78,87,17,916</b>	<b>6,77,42,521</b>
Less:		Provision for 2011-12						(1,55,76,057)
Add:		Provision for 2012-13						1,29,53,364
		<b>Total Charged to P &amp; L</b>						<b>6,51,19,828</b>

**Long term loans from PFC/Centrally sponsored  
GOI Schemes through PB Govt under T&D  
Schemes**

**Loan AS on 31.3.2013**

Scheme Name	Sr. No.	Loan Amount	Rate of Interest
Loan under R-APDRP Part A from GOI/PFC	(i)	818548800	11.50%
	(ii)	597600000	9.00%
		<b>1416148800</b>	
Loan under R-APDRP Part B from GOI/PFC	(i)	685500000	11.50%
	(ii)	1579065000	9.00%
		<b>2264565000</b>	
Loan under Centrally Sponsored Schemes of GOI through Pb Govt	(i)	400271668	10.50%
	(ii)	157427085	11.50%
	(iii)	87966664	12.50%
		<b>645665417</b>	

**Loan AS on 31.3.2014**

Scheme Name	Sr. No.	Loan Amount	Rate of Interest
Loan under R-APDRP Part A from GOI/PFC	(i)	818548800	11.50%
	(ii)	732600000	9.00%
		<b>1551148800</b>	
Loan under R-APDRP Part B from GOI/PFC	(i)	685500000	11.50%
	(ii)	1579065000	9.00%
		<b>2264565000</b>	
Loan under Centrally Sponsored Schemes of GOI through Pb Govt	(i)	363883335	10.50%
	(ii)	141684377	11.50%
	(iii)	76970831	12.50%
		<b>582538543</b>	
Loan from PFC under Distribution Scheme of Non-APDRP	(i)	12419009	12.25%
		<b>12419009</b>	

Accounts Officer/A.P.D.R.P.  
Punjab State Power Corp. Ltd.  
Patiala

207

69

**RATE OF INTEREST WISE LOAN DETAIL FOR THE YEAR 2012-13**

**LONG TERM LOANS FROM REC FOR TRANSMISSION AND DISTRIBUTION SCHEMES**

RATE OF INTEREST	Particulars	Loan Amount
%	PSEB	
8.00	Long term loans from REC for Transmission and Distribution schemes	282607647
8.25	Long term loans from REC for Transmission and Distribution schemes	52074479
9.00	Long term loans from REC for Transmission and Distribution schemes	136890381
9.50	Long term loans from REC for Transmission and Distribution schemes	262536723
11.00	Long term loans from REC for Transmission and Distribution schemes	1783235256
11.50	Long term loans from REC for Transmission and Distribution schemes	3927267553
11.75	Long term loans from REC for Transmission and Distribution schemes	959323765
12.25	Long term loans from REC for Transmission and Distribution schemes	10444935288
12.50	Long term loans from REC for Transmission and Distribution schemes	21378825274
12.75	Long term loans from REC for Transmission and Distribution schemes	3231620
13.00	Long term loans from REC for Transmission and Distribution schemes	84369840
		39315297826

**RATE OF INTEREST WISE LOAN DETAIL FOR THE YEAR 2013-14**

RATE OF INTEREST	Particulars	Loan Amount
%		
8.00	Long term loans from REC for Transmission and Distribution schemes	203563665
8.25	Long term loans from REC for Transmission and Distribution schemes	39321548
9.00	Long term loans from REC for Transmission and Distribution schemes	102945090
9.50	Long term loans from REC for Transmission and Distribution schemes	173817682
11.00	Long term loans from REC for Transmission and Distribution schemes	1482920386
11.50	Long term loans from REC for Transmission and Distribution schemes	3545622305
11.75	Long term loans from REC for Transmission and Distribution schemes	814543075
12.25	Long term loans from REC for Transmission and Distribution schemes	12500434711
12.50	Long term loans from REC for Transmission and Distribution schemes	23427461610
12.75	Long term loans from REC for Transmission and Distribution schemes	1563445
13.00	Long term loans from REC for Transmission and Distribution schemes	72139240
		42364332757

*[Signature]*

*[Signature]*

*[Signature]*  
Accounts Officer/Non APDRP  
Punjab State Power Corp. Ltd.  
PATIALA

— 208 —

— 70 —

## PUNJAB STATE POWER CORPORATION LIMITED



CHIEF ENGINEER/ARR &amp; TR, F-4, SHAKTI VIHAR, PATIALA

Tel.No.0175-2302531, Fax No.0175-2302416, email ce-arr-tr@pspcl.in

To

✓ Chief Engineer/SLDC,  
PSTCL, Patiala.

Memo No. 1204 /CC/DTR/ Dy.CAO/244/Deficiency

Dated : — 3 — 12/2014

**Subject:** Petition for Annual Revenue Requirement and Determination of  
Tariff filed by PSPCL for FY 2015-16-Deficiencies.

Secretary, PSERC, Chandigarh vide his D.O. No. 13250/T-185 dated  
01.12.2014 has raised following query on the ARR for FY 2015-16 of PSPCL:-

*"The figures of plant availability projected in the ARR in respect  
of various thermal generating stations be got verified from  
SLDC/PSTCL. It is required for working out  
incentive/disincentive as per applicable Tariff Regulations and in  
compliance to order of the Hon'ble APTEL dated 11.09.2014 in  
Appeal No. 174 of 2012."*

PSPCL has projected the following plant availability in the ARR for FY  
2015-16:-

Sr. No.	Name of Thermal Plant	FY 2012-13 (Actual)	FY 2013-14 (Prov.)	FY 2014-15 (H-1) (RE)	FY 2014-15 (H-2) (Proj.)	FY 2015-16 (Proj.)
1.	GNDTP, Bathinda	54.65%	63.95%	68.03%	84.79%	88.94%
2.	GHTP, Lehra Mohabat	93.84%	97.30%	95.78%	85.30%	96.50%
3.	GGSSTP, Ropar	92.11%	89.84%	94.05%	88.67%	90.52%

It is requested to verify the above plant availability immediately as  
desired by PSERC so that necessary reply may be sent to the PSERC.

*M. Gupta*  
Chief Engineer/ARR & TR  
PSPCL, Patiala.

# Punjab State Power Corporation Ltd.

(O/o Chief Engineer/Power Purchase & Regulation, Patiala.)

To

Chief Engineer / SLDC,  
PSTCL, Ablowal,  
Patiala.

Regulatory Matter  
Most Urgent

Memo No. 367/368/HD

Dated: 09.12.2014

**Sub: Petition for ARR and Determination of Tariff filed by PSPCL for the  
FY 2015-16 – Deficiencies.**

**Ref: This office Memo No. 357/358/HD dated: 04.12.2014**

The calculation sheets of Plant Availability Factor as received from GGSSTP, GNDTP & GHTP Thermal plants are enclosed herewith. It is requested to verify the following projected plant availability of thermal generating stations so that the same is intimated to the office of CE/ARR&TR.

Sr.No.	Thermal Plant	FY 2014-15 (H2)	FY 2015-16
1.	GNDTP, Bathinda	84.79%	88.94%
2.	GHTP, Lehra Mohabat	85.30%	96.50%
3.	GGSSTP, Roopnagar	88.67%	90.52%

DA/As Above

-sd/-

Dy.CE/Power Regulation,  
(for CE/PP&R),  
PSPCL, Patiala.

**CC: Chief Engineer/ARR&TR, PSPCL, for information please.**



# Avaialability of Units (%)

## GNDTP, Bathinda

S. no.	Year	Availability factor(%)				
		Unit-1	Unit-2	Unit-3	Unit-4	Station
1	2012-13 (Hrs)	8760	8760	8760	8760	35040
1	2012-13 (Planned Hrs)	720	720	6000	8760	16200
1	2012-13( Forced Hrs)	501.15	508.64	311.01	0.00	1320.80
1	2012-13( Avail. Hrs)	7538.85	7531.36	2448.99	0.00	17519.20
1	2012-13( Avail-%)	86.06	85.97	29.65	0.00	50.27
2	2013-14 (Hrs)	8760	8760	8760	8760	35040
2	2013-14 (Planned Hrs)	1082.3	0	0	8760	9842.3
2	2013-14( Forced Hrs)	179.54	206.72	2465.73	0.00	2851.99
2	2013-14( Avail. Hrs)	7498.16	8553.28	6294.27	0.00	22345.71
2	2013-14( Avail-%)	85.60	97.64	71.85	0.00	63.95
3	2014-15-H1 (Hrs)	4392	4392	4392	4392	17568
3	2014-15-H1 (Planned Hrs)	16.75	0	0	4296	4312.75
3	2014-15-H1( Forced Hrs)	1089.60	151.56	176.93	0.00	1418.09
1	2014-15-H1( Avail. Hrs)	3285.65	4240.44	4215.07	96.00	11837.16
3	2014-15-H1( Avail-%)	74.81	96.55	95.97	2.38	68.03
4	2014-15-H2 (Hrs)	4368	4368	4368	4368	4368
4	2014-15-H2 (Planned Hrs)	0	1080	720	0	1800
4	2014-15-H2( Forced Hrs)	218.40	218.40	218.40	218.40	218.40
4	2014-15-H2( Avail. Hrs)	4149.60	3069.60	3429.60	4149.60	2349.60
4	2014-15-H2( Avail-%)	95.00	70.27	78.52	95.00	84.79
6	2015-16(Hrs)	8784	8784	8784	8784	35136
6	2015-16(Planned Hrs)	720	720	0	720	2160
6	2015-16(Forced Hrs)	439.2	439.2	439.2	439.2	1756.8
6	2015-16( Avail. Hrs)	7624.8	7624.8	8344.8	7624.8	31219.2
6	2015-16( Avail-%)	86.80	86.80	95.00	86.80	88.94

Note: Unit-3&4 remained under R&M w.e.f 14.01.2010 o 06.12.2012 &05.11.2011 to 26.09.2014 respectively.

Dy. Chief Engineer/F&E  
For Chief Engineer/Thermal  
GNDTP, Bathinda

### Calculation of PAF for GGSSTP

Sr. No.	Description	Actual		
		FY 2012-13	FY 2013-14	FY 2014-15 (H-1)
1	Running Hours	44785.09	41891.07	20825.51
2	Reserve Hours	3630.19	5329.35	3959.06
3	Total(1+2)	48415.28	47220.42	24784.57
4	Total Hours (No of hours in corresponding period X No. of Units)	52560	52560	26352
		(365*6*24)	(365*6*24)	(183*6*24)
5	PAF (%)	92.11	89.84	94.05

Sr. No.	Description	Projected	
		FY 2014-15 (H-2)	FY 2015-16
1	Planned Outage Days	80	120
2	Total Days	182	366
3	Planned Outage %	7.33	5.46
		$[80/(182*6)]*100$	$[120/(366*6)]*100$
4	Force Outage % (Assumed)	4.00	4.02
5	PAF (%)	88.67	90.52
		(100- 3- 4)	(100- 3- 4)



Addl. SE/ Montg-1,  
GGSSTP, Roopnagar.



Sr. No.	Parameter	Unit	FY 2012-13 (Actual)		FY 2013-14 (Actual)		FY 2014-15 APR to SEPT (H1)	
			St-1	St-2	St-1	St-2	St-1	St-2
1	Running Hrs.	Hrs.	15136.65	16664.32	14871.42	15945.00	7654.28	7033.67
2	Reserve outage	Hrs.	829.80	173.45	2446.87	873.35	515.33	1583.88
3	Total (1+2)		15966.45	16837.77	17318.28	16818.35	8169.62	8617.55
4	Total hrs. (In corresponding period)		17520.00	17520.00	17520.00	17520.00	8784.00	8784.00
5	Availability factor (stage wise)	%	91.13	96.11	98.85	96.00	93.01	98.11
	Availability factor (Station)	%	93.84		97.30		95.78	

Sr. No.	Parameter	Unit	FY 2014-15 H2 (Projected)	FY 2015-16 (Projected)
1	Planned Outage Days		530	162
2	Total days		4019	8081
3	Planned outage	%	13.20	2.00
4	Forced outage (Assumed)	%	1.50	1.50
5	Availability factor	%	85.30	96.50

DR

## MONTHLY UI ACCOUNT YEAR 2012-2013

Sr No	Month	SCH ENRG	Dwt ENRG	KWH	DIFF	PAYABLE AMT	REC AMT	UI CAP	ADD. UI AMT	NET UI AMT
		KWH	KWH	KWH		Rs	Rs	Rs	Rs	Rs
1	Apr-12	1348923142	1358124390	9201248		29083069	37861300	2444720	1176085	-5157426
2	May-12	1949871684	2065443540	115771856		420424916	47364314	3707589	26665863	403434054
3	Jun-12	2876722500	3126875092	250152592		887624792	0	20192383	84280105	992097280
4	Jul-12	3507024391	3695552432	188528041		665152122	0	4610942	5395712	675158776
5	Aug-12	3363308427	3398142547	34834120		85379447	0	864907	2910589	89154943
6	Sep-12	2952107014	2934973023	-17133991		28326809	24776329	130061	359912	4040453
7	Oct-12	1634577006	1643438714	8861708		35826897	0	29580	155838	36012375
8	Nov-12	967659178	966152086	-1507092		36828183	5963828	9846	459705	31333906
9	Dec-12	1022354741	1028170037	5815296		78596891	1562991	136755	4069187	81239842
10	Jan-13	1104566801	1069886424	-34683377		1348691	23791182	96295	1957550	-20388646
11	Feb-13	1233462093	1232680148	-781945		29482056	8241532	27245	210447	21478216
12	Mar-13	1510796948	1526479726	15682778		44828284	1995779	573	320477	43153555
	TOTAL 12-13	23471176925	24045918159	574741234		2342902157	151557255	32250896	127961470	2351557268

*[Signature]*  
12/12

AEB/DA

*[Signature]*  
12/12

AEB/DA

*[Signature]*

**PUNJAB STATE POWER CORPORATION LIMITED  
CHIEF ENGINEER/ARR & TR, F-4, SHAKTI VIHAR, PATIALA**

To

Director/Tariff,  
Punjab State Electricity Regulatory Commission,  
SCO 220-221, Sector-34 A,  
Chandigarh.

Memo No 2632 /CC/DTR-119/ Vol.25/TR-II  
Dated 1 / - 12 - /2014

**Subject:** Petition for Aggregate Revenue Requirement and Determination of  
Tariff filed by PSPCL for FY 2015-16-Deficiencies.

**Reference:** Your office memo No. 2093 dated 08.12.2014 & e-mail dated 09.12.2014.

Plant wise desired information of Generation, Coal Quantity Used and GCV  
of received & bunkered coal for the FY 2012-13, 2013-14 & 2014-15 (up to September,  
2014) is enclosed for information and kind consideration please.

DA/As above.

  
Chief Engineer/ARR & TR,  
PSPCL, Patiala.



**Proforma regarding Generation (Gross), Coal quantity used & GCV of Receipted coal & Bunkered coal FY 2012-13 (GHTP)**

GHTP Stage-1					GHTP Stage-2			
Month	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal
	MU	MT	kcal/kg	kcal/kg	MU	MT	kcal/kg	kcal/kg
Apr-12	276.554	157366	4125	4043	354.296	200675	4125	4043
May-12	307.231	176271	4407	4041	382.972	220344	4407	4041
Jun-12	304.00	174797	4405	4050	354.754	204153	4405	4050
Jul-12	291.504	164103	4123	4041	354.288	199554	4123	4041
Aug-12	293.107	167116	3911	4016	355.238	202919	3911	4016
Sep-12	266.698	155060	4101	3919	330.714	192388	4101	3919
Oct-12	319.677	180201	4228	4033	382.060	215611	4228	4033
Nov-12	208.1063	117084	4187	4103	356.698	201121	4187	4103
Dec-12	245.077	137460	4174	4180	343.836	193813	4174	4180
Jan-13	304.288	174389	4212	4111	312.150	177712	4212	4111
Feb-13	113.858	72468	4127	4024	264.806	151223	4127	4024
Mar-13	188.148	108963	4307	4143	304.962	173331	4307	4143
<b>Total</b>	<b>3118.248</b>	<b>1785278</b>	<b>4196</b>	<b>4068</b>	<b>4096.774</b>	<b>2332844</b>	<b>4196</b>	<b>4068</b>

**Proforma regarding Generation (Gross), Coal quantity used & GCV of Receipted coal & Bunkered coal FY**

GHTP Stage-1					GHTP Stage-2			
Month	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal
	MU	MT	kcal/kg	kcal/kg	MU	MT	kcal/kg	kcal/kg
Apr-13	283.951	170243	4244	4083	340.553	193880	4244	4083
May-13	246.655	140265	4244	4148	274.041	156317	4244	4148
Jun-13	236.054	140753	4235	4108	257.690	153914	4235	4108
Jul-13	305.736	185570	4010	3933	365.140	221765	4010	3933
Aug-13	236.856	149084	3987	3856	298.675	187644	3987	3856
Sep-13	284.304	169384	4095	4030	329.575	192326	4095	4030
Oct-13	110.780	68026	4231	4089	341.025	198115	4231	4089
Nov-13	151.136	93950	4072	3969	343.480	202908	4072	3969
Dec-13	273.657	161832	4364	4219	320.020	176971	4364	4219
Jan-14	283.345	169068	4156	4139	317.110	172891	4156	4139
Feb-14	236.484	140543	4236	4206	308.100	170004	4236	4206
Mar-14	275.407	165803	4121	4087	245.170	139933	4121	4087
<b>Total</b>	<b>2924.365</b>	<b>1754521</b>	<b>4162</b>	<b>4068</b>	<b>3740.579</b>	<b>2166668</b>	<b>4162</b>	<b>4068</b>

**Proforma regarding Generation (Gross), Coal quantity used & GCV of Receipted coal & Bunkered coal FY**

GHTP Stage-1					GHTP Stage-2			
Month	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal	Gross Generation	Coal Quantity Used	GCV of Receipted Coal	GCV of Bunkered Coal
	MU	MT	kcal/kg	kcal/kg	MU	MT	kcal/kg	kcal/kg
Apr-14	263.654	156376	4081	4041	101.295	59370	4081	4041
May-14	106.048	69643	4033	3894	188.725	114629	4033	3894
Jun-14	229.790	140283	4029	3985	303.950	179313	4029	3985
Jul-14	191.197	122772	4088	3939	337.215	205795	4088	3939
Aug-14	296.617	187684	3998	3863	331.650	202638	3998	3863
Sep-14	159.894	100056	4122	3974	274.240	169109	4122	3974
<b>Total</b>	<b>1247.200</b>	<b>776814</b>	<b>4059</b>	<b>3944</b>	<b>1537.075</b>	<b>930854</b>	<b>4059</b>	<b>3944</b>

ER

Performa regarding Generation Gross, Coal Quantity used & GCV of  
Receipted coal & Bunkered Coal GGSSTP

Month	Generation (Gross)	Coal Quantity used	GCV of Receipted Coal	GCV of Bunkered Coal Coal
	MUs	MT	kcal/kg	kcal/kg
<b>FY 2012-13</b>				
Apr-12	778.540	499823	Being monitored w.e.f. Nov-12	3988
May-12	777.555	493744		3990
Jun-12	807.875	508964		4029
Jul-12	851.800	536634		4038
Aug-12	870.330	548308		4026
Sep-12	721.985	453407		4051
Oct-12	862.545	534778		4055
Nov-12	873.050	541291	4607	4052
Dec-12	817.980	507151	4424	4059
Jan-13	790.674	484157	4495	4135
Feb-13	477.380	292317	4270	4137
Mar-13	536.856	328736	4337	4142
<b>Total</b>	<b>9166.570</b>	<b>5729310</b>		

**FY 2013-14**

Apr-13	689.230	421809	4342	4152
May-13	748.074	457821	4335	4160
Jun-13	657.173	402190	4348	4165
Jul-13	874.204	535013	4342	4167
Aug-13	667.030	410223	4286	4140
Sep-13	793.140	495713	4205	4090
Oct-13	690.760	442086	4169	4040
Nov-13	550.570	352365	4171	4048
Dec-13	607.676	391951	4271	4075
Jan-14	674.739	435207	4176	4040
Feb-14	526.814	338741	4183	4037
Mar-14	526.459	331891	4178	4044
<b>Total</b>	<b>8005.869</b>	<b>5015010</b>		

**FY 2014-15**

Apr-14	492.441	317624	4095	4019
May-14	543.783	356722	4037	3946
Jun-14	842.855	560499	4082	3939
Jul-14	821.543	591507	4092	3692
Aug-14	795.416	588608	3922	3683
Sep-14	523.494	403090	3876	3666
<b>Total</b>	<b>4019.532</b>	<b>2818050</b>		

*[Handwritten signature]*

Performa regarding Generation Gross, Coal Quantity used & GCV of  
Receipted coal & Bunkered Coal GNDTP

GNDTP	Generation (Gross) (MU)	Coal Quantity Used (MT)	GCV of Receipted Coal (As Fired basis) (kCal/Kg)	GCV of Bunkered Coal (As fired basis) (kCal/Kg)
Apr-12	101.887	72748.000	4549.97	3964.48
May-12	132.604	94545.000	4344.38	3992.91
Jun-12	133.775	95249.000	4451.57	4008.79
Jul-12	149.062	105536.000	4238.41	4017.43
Aug-12	117.623	83395.000	3879.50	4000.2
Sep-12	92.121	65037.000	4258.33	4009.44
Oct-12	141.431	99426.000	4299.36	4031.44
Nov-12	58.352	40938.000	4266.48	4027.96
Dec-12	168.127	114786.000	4397.01	4078.00
Jan-13	205.728	135382.000	4294.84	4109.50
Feb-13	89.141	58623.000	4175.85	4069.32
Mar-13	96.770	62831.000	4445.68	4167.51
TOTAL	1486.621	1028496		

NOTE:

For FY 2012-13, U#3 was under trial run/stabilization till  
06.12.12. Gen=145.067 Mus, Coal Consumption=96909 MT

	Generation (Gross) (MU)	Coal Quantity Used (MT)	GCV of Receipted Coal (As Fired basis) (kCal/Kg)	GCV of Bunkered Coal (As fired basis) (kCal/Kg)
Apr-13	167.245	112355.000	4211.89	4171.04
May-13	149.551	99925.000	4220.84	4110.36
Jun-13	130.081	87773.000	4239.61	4117.33
Jul-13	140.595	97007.000	4167.48	4067.34
Aug-13	106.408	77039.000	3940.70	3884.79
Sep-13	192.740	128770.000	4191.11	4043.65
Oct-13	161.040	106418.000	4203.99	4119.57
Nov-13	120.700	78096.000	4220.50	4131.39
Dec-13	175.870	111659.000	4530.81	4379.32
Jan-14	163.980	103766.000	4320.63	4229.51
Feb-14	78.441	49032.000	4456.64	4319.18
Mar-14	48.808	31548.000	4384.85	4258.40
TOTAL	1635.459	1083388		
	Generation (Gross) (MU)	Coal Quantity Used (MT)	GCV of Receipted Coal (As Fired basis) (kCal/Kg)	GCV of Bunkered Coal (As fired basis) (kCal/Kg)
Apr-14	74.841	45574	3855.65	4315.09
May-14	85.636	54628	4261.83	4337.42
Jun-14	166.647	112168	4100.60	4076.98
Jul-14	239.980	161938	4148.09	4026.02
Aug-14	264.387	173187	4275.93	4174.43
Sep-14	181.202	122663	4191.20	4079.27
TOTAL	1012.693	670158		