

**GENERAL HEADINGS OF PROCEEDINGS**

**BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF ARUNACHAL PRADESH**

**FILE No:** \_\_\_\_\_

**CASE No:** \_\_\_\_\_

**IN THE MATTER OF :** Submission in respect of Directives issued by the Hon'ble Commission vide order Dt. 20.12.2019 in Petition No. TP 05 of 2019.

**AND**


**IN THE MATTER OF :** Department of Hydro Power Development, Jal Vidyut Bhawan, Itanagar, Arunachal Pradesh

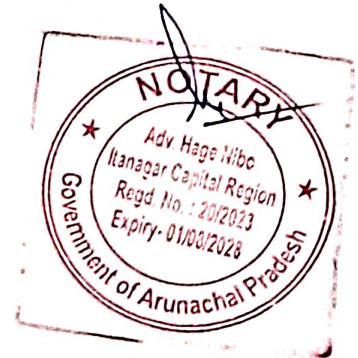
**.....Petitioner**

  
**Chief Engineer (WZ)**  
Dept. of Hydro Power Development  
Itanagar (A.P.)



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## Background

The Department of Hydro Power Development, Government of Arunachal Pradesh was directed by APSERC to submit the details of the action taken on the directions issued by the commission vide order dated 20-12-19 in Petition No TP 05 of 2019 vide the record of proceeding dated 28-08-24 in diary No. 01 of 2024.

Subsequently DHPD is submitting the action taken report along with an affidavit as directed by APSERC.

  
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**ACTION TAKEN REPORT ON THE COMPLIANCE OF DIRECTIVES WITH REGARDS TO TARIFF ORDER (FY 2019-20) ISSUED ON 20-12-2019 BY APSERC**

**1. Electricity Regulatory Cell**

DHPD shall create an Electricity Regulatory Cell (under a senior Officer) from the existing staff strength. The Cell so created shall be provided with necessary authority and resources so as to look after all the Tariff and Regulatory matters primarily to keep a vigil on the parameters approved and directives issued by the Commission and also to provide correct and timely information to the Commission. The said officer shall be the primary source of all data and submissions being field before the Commission, to ensure consistency and timelines of the data submitted and proper co-ordination with the Commission in the tariff determination process.

As per DHPD due to lack of officers Electricity Regulatory Cell is still under process. However, the Commission direct DHPD it is very urgent to have this cell headed by some senior officials from DHPD and furnish details of Concern officer, their phone nos. and email IDs for faster and efficient working.

**Reply:** It is submitted that as per commission's observation, DHPD is planning to set-up an Electricity Regulatory Cell under a senior officer. The proposal is under process.

**2. Unbundling and transfer of Asset**

Electricity functions covering Generation is being performed by the DHPD as a Government functionary as of now. As per the provisions of the Electricity Act 2003, the functions are to be separate and entrusted to reorganized entities that have to function as independent bodies.

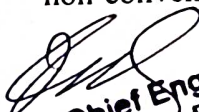
DHPD is once again directed to take urgent steps for complete restructuring and get transferred of asset as per Govt. transfer scheme section 131-33 of the power sector in Arunachal Pradesh.

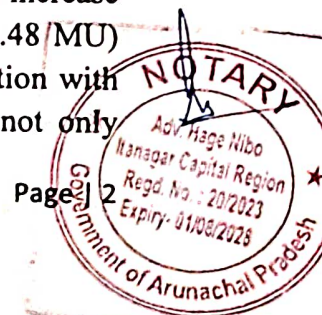
**Reply:**

It is submitted that the restructuring of the Department into separate entity independent from the Government is to be decided by the Government of Arunachal Pradesh. As directed by the Hon'ble Commission, the DHPD shall take up the matter for consideration of the Government.

**3. Generation**

DHPD has generated and supplied only 46.50 MU (up to Dec 2018) during FY 2018-19 against saleable energy of 198.48 MU, which is quite low. It indicates that the Performance is poor. DHPD shall take necessary steps to improve the performance of the stations and generate additional power. The DHPD shall make an all-out effort to increase the present generation at least by 19.85 MU (i.e. 10 % of saleable energy 198.48 MU) more in the present generation energy. This will facilitate the additional generation with non-conventional source within the state. Further, this low-cost energy shall not only

  
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reduce the burden of APDOP of buying energy at higher cost but shall also give relief to the consumers of the state. The DHPD shall submit a report to the Commission on the steps proposed to be taken in this regard with improvements carried out, within Six months.

**Reply:**


- i) It is submitted that DHPD is making all efforts to maximise generation, however, there are technical and operational constraints as a result of which the HEPs are not operating at desired capacity.
- ii) Most of the HEPs are operating in isolation mode, not connected to grid. The energy generated from the HEPs are catering to the energy requirement of local area. Hence, generation depends on the demand of the connected area.
- iii) Further, there are redundant capacities to meet the energy requirement in case of failure of any unit.
- iv) The availability of water discharge has reduced due to deforestation, global warming apart from the water diversion by PHE & Irrigation Departments.
- v) Frequent landslides damage the HEPs and disrupt generation.
- vi) Steps are being taken to connect the HEPs to the grid to improve generation.

4. The Commission hereby also directs the Petitioner/ DHPD to keep project wise data's such as all ongoing projects updated as estimated cost, revised Capital cost if any, progress physical & financial, O&M expenses (Employees, R&M and AG), Additional capitalization etc. that shall have to be submitted along with the petition supported by documents.

**Reply:** It is submitted that all efforts are being made to collect & compile regulatory details. The formats have been devised and circulated to all divisions. It is submitted that DHPD shall try to submit the required details in future filings.

**5. For newly Hydro Electric Plant to be commissioned**

For newly Hydro Electric Plants below 1 MW, the petitioner should get tariff fixed for entire useful life of plant on levelised basis by adopting the Generic tariff order published by the Commissioned whose COD is March, 2018 or by filling separate for project specific tariff as per APERC RE Regulation, 2018 and its amendment time to time. For 1 MW and above upto 25 MW project specific Tariff. Petitioner is hereby directed to keep all data updated like estimated & completed cost, Equity, Debt, O&M expenses (Employees, R&M and AG), Additional capitalization etc. and to be submitted along with the petition. Also it has been informed to the department that no tariff has been determine for the following SHP commissioned in FY 18-19, whose project data not available with the Commission, a) Payu MHS at Koloriang; b) Mukto MHS; c) Subbung.

  
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**Reply:** It is submitted that the petitions for determination of levellised tariff for all the HEPs with installed capacity above 1 MW commissioned from 01.04.2018 onwards are being submitted shortly for approval of the Hon'ble Commission.

#### 6. Accounting of O&M expenses

The Deptt. is directed to maintain project wise accounting of expenses in respect of the following:

- (a) Expenses on salary and wages of the staff working in the generating station.
- (b) Expenses incurred on repair & maintenance of that generating station.
- (c) Any other general expenses incurred on the staff of that generating station.

These project wise details should be provided in the tariff Petition from next year onwards as these are regulatory requirements.

**Reply:** DHPD is making all efforts to maintain & compile the required details. The required details shall be provided along with the next Tariff Petition.

#### 7. O&M Activities


The Commission suggests that the O & M activities of major Power Station i.e. above one MW capacity may be carried out on PPP Model (Public Private Partnership Model). Initially one or two Power Plant of sizable capacity, which is under performing, may be taken up on experiment basis to carry out O&M activities and its performance shall be monitored. DHPD is requested to prepare a blue print of such PPP Model Project and furnish the same to APSERC for appraisal and comment.

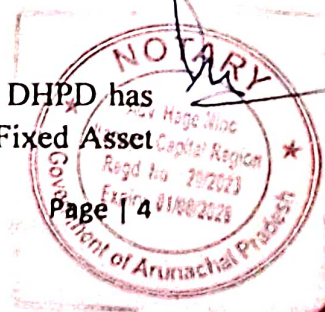
**Reply:** As directed, DHPD shall take up proposal of carrying out O & M activities of major Power Station i.e. above one MW capacity on PPP Model (Public Private Partnership Model) and AOMC (Annual Operation Maintenance Contract) for consideration of the State Government. One hydel station from each circle is being identified and process is on for operation and maintenance contract from private parties.

#### 8. Reassessment of the value of the existing assets of DHPD

The Deptt. is directed to reassess the value of its assets and provide the correct asset value to the Commission in the next petition. If the Deptt. feels proper and necessary, it is suggested that Deptt. may seek the services of professional valuers & estimators in this field for assessing the proper value of the assets of the Deptt. as it is a one-time exercise and it is in the benefit of the Deptt. that it should be done with fair amount of accuracy. Project wise asset registers, containing land details, civil structures, dams, spill ways, power house buildings, office buildings, the machinery, and equipment together with costs shall be prepared in standards format and shall be submitted the same to the Commission.

**Reply:** It is submitted that as per Commission's suggestion and guidance DHPD has initiated the process to assess the value of its assets. DHPD shall prepare the Fixed Asset

  
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& Depreciation Register of all the HEPs with the required details & submit to the Hon'ble Commission.

#### 9. Hydro Power Stations with "Nil" Power Generation

The Commission received a status sheet from DHPD (Refer Annexure 1) where it is observed that 41 numbers of plant totalling to an installed capacity of about 14.25 MW has been shown to be generating nil energy over the past few years. Hence, the Commission observe an urgency to recover at least those plants which has nil generation or operating below its rated capacity due to some minor repair/ replacement/refurbishment of components/parts/works etc. The Commission hereby directs DHPD to take up the recovery of those plants and present it to the Commission along with the commercial justification, sources of funding, annual targets, and time lines of restoration of generation.

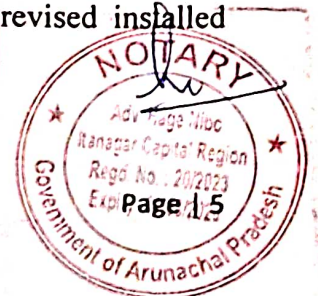
**Reply:** It is submitted that most of the DHPD's mini and micro projects are operating in isolation mode and located in remote hilly areas. Often times due to natural calamities like landslides, Flash Floods and flooding of river, power house and hydel equipments are damaged beyond economical repair. Also, it leads to damage of the approach terrain, inhibiting the speedy repair and carrying out of necessary R&M works. Many of the hydel stations have also decreased efficiency due to ageing and reduction in discharge on account of deforestation. The action taken on the noted 41 no's of hydel stations in the Tariff Order FY 2019-20 is hereby annexed as (A, B, C & D) listed as (A) Hydel Station renovated and put into operation – 9 No's. (B) Hydel Station under R&M, Derating & Augmentation – 11 No's. (C) Hydel Stations proposed for write off sanction – 7 No's and (D) Hydel Station which has been accorded write off sanction – 14 No's. DHPD is making all efforts to make the plants operational in technically & economically feasible cases. However, those plants which are beyond economical repairs are processed for write off sanction from the competent authority.

#### 10. Reassessment of Installed Capacity of the existing stations

It is felt that the generation from the hydro stations does not commensurate with the installed capacity of the projects. As clarified by the DHPD on various occasions, one of the reasons stated for this was that many of the projects are very old and the capacity of the machinery has got de-rated due to ageing. Moreover, over a period of time the hydrology of the project has also changed leading to reduction in water discharge and hence reduction in the generating capacity. It was also stated that during earlier days one machine in the station used to be only as standby but whose capacity is added in the installed capacity. In view of the above the DHPD is directed to reassess the actual generating capacity of all such projects afresh and re-fix the installed capacity afresh and get it approved.

**Reply:** It is submitted that DHPD has initiated the process to assess the installed capacity based on the geographical & hydrological conditions and revised installed capacity shall be fixed and submitted to the Hon'ble Commission.

  
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## 11. Depreciation for FY 2019-20

The Commission has been requesting the details of GFA from DHPD but didn't receive any input till date. Further, Commission has worked out depreciation based on limited data available with the Commission and accordingly approved the cost as calculated. The Commission hereby directs the DHPD to re-evaluate the project asset value by deploying the professional valuer and estimator for all the old plants whose capital is not available with the department so that a realistic depreciation can be calculated. The Commission also directs the DHPD to do re-valuation exercise of the old plants whose project life obtained more than thirty-five years and furnish the same to the Commission

**Reply:** It is submitted that as per Commission's suggestion and guidance DHPD has initiated the process to assess the value of its assets. DHPD shall prepare the Fixed Asset & Depreciation Register of all the HEPs with the required details & submit to the Hon'ble Commission.

## 12. Training and skill development of the employees of DHPD


The Deptt. is directed to give top most priority to training and skill development of O&M staff and the supervisory staff (JEs and AEs) of the generating stations so as to increase the longevity & efficiency of the machines. The Deptt. should work out a well thought plan of imparting training in phased manner and allocate necessary fund in its annual budget for the same. Further to the above, Commission also observes that DHPD may undertake training / skill development for technicians / un-skilled worker to improve plant availability and performance.

**Reply:** It is submitted that DHPD has taken steps for training and skill development of O&M staff and the supervisory staff (JEs and AEs)/ un-skilled workers of the generating stations to improve plant availability and performance. In this regard, one hydel station of each circle has been identified to be operated by private party on AOMC basis with a condition that training will also be provided in those identified hydel stations.

## 13. Scheduling of generation from the Deptt.'s Hydro Stations

The Deptt. is directed to start scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power. In this regard, the DHPD shall have to co-ordinate with SLDC which is being upgraded to have communication with the plants in Generation with SLDC. The DHPD need to update the Commission.

**Reply:** It is submitted that DHPD shall take steps for scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power. DHPD shall intimate the status to the Hon'ble Commission as directed.

  
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#### 14. Fixing of project wise generation target

The Deptt. is also directed to fix monthly / quarterly target of generation project wise based on various factors like the seasonal availability of the water, condition of the machines etc. This will also help the Deptt. in self-assessment of its performance. Details of Project wise target and actual generation should be incorporated in the next tariff petition of the Deptt.

**Reply:** It is submitted that DHPD shall take steps for fixing generation targets based on various factors like the seasonal availability of the water, condition of the machines etc as directed.

#### 15. Raising of bills to Deptt. of Power

The DHPD directed to immediately confirm if it is raising monthly bills to AP DOP for the energy consumed by them at the tariff fixed by the Commission w.e.f 2013-14 onwards. On the basis of joint meter readings or as mutually decided by both the department for such station where meter are not installed. Persons authorised to sign the joint meter reading, format of the bill etc. should be worked out between the Chief – Engineer's of DHPD and Chief Engineer's DOP to avoid any kind of disputes.

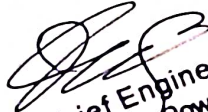
**Reply:** It is submitted that DHPD shall take steps for raising monthly bills to AP DoP for the energy drawn by them at the tariff fixed by the Commission regularly. Efforts are being made to obtain JMR (Joint Meter Reading) with DoP while recording monthly generation data. In this regard all the circle and divisional offices have been directed to inspect hydel stations under their jurisdiction and submit the requirement of appropriate meters required for conducting JMR wherever the provision is missing at present.

#### 16. Data Deficiencies and submission of Tariff Petition

The Deptt. is directed to start scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power.

**Reply:** It is submitted that DHPD shall take steps for scheduling the generation from its generating stations for proper and optimum utilization of the generation by the Deptt. of Power.

The Commission observed through the previous petition filled that the various activities are being taken by the petitioner / DHPD and listed in their petition as Annexure 'Outlays and Expenditure of On-Going Schedule and hydel Improvement, special repair (Hydel Improvement), R&M works etc. for different plants in operation. The petitioner did not furnish any proposal along with technical details, expenditure etc. for the said projects for information / accounting to the Commission.

  
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**Reply:** It is submitted that the details of planned CAPEX shall be submitted to the Hon'ble Commission.

**17. Filling of the Petition in time**

Tariff petition with all the required data in the formats shall be submitted by 30<sup>th</sup> November of every year.

**Reply:** It is submitted that DHPD shall make all efforts to file the next petition within 30<sup>th</sup> November.

  
**Chief Engineer (WZ)**  
**Deptt. of Hydro Power Development**  
**Itanagar (A.P.)**





BEFORE HON'BLE ELECTRICITY REGULATORY COMMISSION  
FOR THE STATE OF ARUNACHAL PRADESH



FILE No: \_\_\_\_\_

CASE No: \_\_\_\_\_

IN THE MATTER OF : Submission in respect of Directives issued by the Hon'ble Commission vide order Dt. 20.12.2019 in Petition No. TP 05 of 2019.

AND


IN THE MATTER OF : Department of Hydro Power Development, Jal Vidyut Bhawan, Itanagar, Arunachal Pradesh

.....Petitioner

**AFFIDAVIT**

I Shri Jummar Kamdak, son of Lt. Tojum Kamdak (aged 59 years), residing at Kamdak Apartment, 'D' Sector, Itanagar A.P., do hereby solemnly affirm and state as follows:-


1. That I am the Chief Engineer (WZ) of the Department of Hydro Power Development, Government of Arunachal Pradesh, the petitioner in the above matter and am duly authorized by the said petitioner to make this affidavit on its behalf.
2. That the statements submitted as action taken on the directions issued by the commission vide order dated 20-12-2019 in petition No TP 05 of 2019 are true to the best of my knowledge and belief and nothing material has been concealed there from.


  
Deponent:  
Chief Engineer (WZ)  
Dept. of Hydro Power Development  
Itanagar (A.P.)


**Verification**

I, the deponent above named do hereby verify that the contents of my above affidavit are true to my knowledge; no part of it is false and nothing material has been concealed there from

Verified at Itanagar on the day of 20/9/2024  
Place: Itanagar  
Date: 20/9/2024

  
**Deponent**  
**Chief Engineer (.....)**  
**Deptt. of Hydro Power Development**  
**Itanagar (A.P.)**

**Solemnly affirmed and declared**  
**before me by the deponent**  
**at Itanagar on**  
  
**21 SEP 2024**  
  
**Notary, TSP, AP**

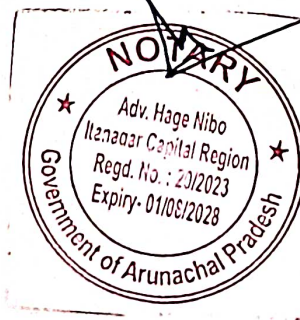
  
**Adv. Hage Nibo**  
**Advocate & Notary Public, Govt. of A.P**  
**D.C Office, Chandra Nagar, Itanagar**  
**Regd. No : 20/2023**  
**Expiry : 01/08/2028**

**LIST OF EXISTING HYDEL UNDER DEPARTMENT OF HYDRO POWER DEVELOPMENT RENOVATED & PUT INTO OPERATION**

					Annexure - A
Sl. No.	Name of Existing Hydel	Installed Capacity (in KW)	Firm capacity (in KW)	Year of Commissioning	Remarks
1	Khet	2 x 50	100	2009-10	Unit-I in Operation. Unit-II Shutdown due to gen, panel, transformer & switchyard component damage.
2	Dokumpani	1 x 30	30	2000-01	Plant in Operation
3	Domkhrong	2 x 1000	2000	2008-09	Unit-I Shutdown due to leakage from Nozzle. Unit-II in Operation.
4	Mai PH-II	2 x 500	500	1982 - 83	Unit-I Shutdown due to excitation panel defect. Unit-II in Operation.
5	Kamba MHS	3 x 2000	6000	2008-09	Plant is operated in Isolation mode supplying power to kamba, kaying and Darak.
6	Tah Ahfra Ph-I and Ph-II at Angolin	(1 x 50)+ (1 x 50)	50	2009-10	Shutdown since May 2024 due to flood damage of water conducting system.
7	Kibitho	1 x 30	30	2004-05	Due to low discharge, Kibithoo area is fed from Dichu Nallah MHS. Due to landslide on 29th June 2024, Power house has been washed away.
8	Maipani MHS	2 x 30	30	2010-11	Power channel is damaged. Plant shutdown.
9	Sumhok Nallah	2 x 50	100	2009-10	
Total of WZ		9420	8840		

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*[Signature]*  
**Chief Engineer (WZ)**  
**Deptt. of Hydro Power Development**  
**Itanagar (A.P.)**



**LIST OF EXISTING HYDEL UNDER DEPARTMENT OF HYDRO POWER DEVELOPMENT UNDER R&M,  
DERATING AND AUGMENTATION**

					Annexure - B
Sl. No.	Name of Existing Hydel	Installed Capacity (in KW)	Firm capacity (in KW)	Year of Commissioning	Remarks
1	Saktangrong MHS	3 x 100	300	2011-12	Proposed under Renovation
2	Ankaling	1 x 30	30	2009-10	Proposed under Renovation
3	Khadiyabey	2 x 100	200	2011-12	Proposed for derating from (2 x 100 kW) to (2 x 50 kW) vide SE/KB/HPD/W-59/22-23/1640-42 Dtd 17/01/23
4	Kade Nallah	1 x 50	50	2010-11	Proposed under Renovation
5	Pakke Kessang	1 x 30	30	2001-02	Plant shutdown for augmentation into 2 x 50 kW.
6	Koye	1 x 50	50	2009-10	Proposed for Write Off sanction
7	Dumi Dutte	1 x 30	30	2017-18	Proposed under Renovation
8	Dulom ( Daporijo )	4 x 100	300	1981 - 82	Hydel Station shutdown since 2008 and presently R&M works on EM is progress.
9	Pinto Karo	1 x 25	25	2011-12	Proposed under Renovation
10	Sinyum Koro	2 x 50	100	2011-12	Proposed under Renovation
11	Ayingmuri MHS	2 x 125	250	2012-13	Plant under augmentation of power from 250 to 500 kW.
Total of WZ		1465	1365		

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*[Signature]*  
**Chief Engineer (WZ)**  
**Dept. of Hydro Power Development**  
**Itanagar (A.P.)**



**LIST OF EXISTING HYDEL UNDER DEPARTMENT OF HYDRO POWER DEVELOPMENT PROPOSED FOR WRITE OFF**

					Annexure - C
Sl. No.	Name of Existing Hydel	Installed Capacity (in KW)	Firm capacity (in KW)	Year of Commissioning	Remarks
1	Bramdhongchung Ph-I	2 x 50	100	2008-09	Proposed for Write Off sanction
2	Sinchung	1 x 30	30	2008-09	Proposed for Write Off sanction
3	Seppa	3 x 100	200	1980 - 81	Proposed for Write Off sanction
4	Patte MHS at Tali	1 x 30	30	2004-05	Proposed for Write Off sanction
5	Maro	1 x 30	30	2002-03	Proposed for Write Off sanction
6	Limeking MHS	1 X 30	30	2012-13	Proposed for Write Off sanction
7	Kojin Nallah	2 x 50	100	2011-12	Proposed for Write Off sanction
Total of WZ		620	520		

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**Chief Engineer (WZ)**  
**Deptt. of Hydro Power Development**  
**Itanagar (A.P.)**



**LIST OF EXISTING HYDEL UNDER DEPARTMENT OF HYDRO POWER DEVELOPMENT WITH WRITE OFF SANCTIONED**

Annexure - D

Sl. No.	Name of Existing Hydel	Installed Capacity (in KW)	Firm capacity (in KW)	Year of Commissioning	Remarks
1	Yomcha	1 x 50	50	2001-02	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
2	Angu MHS	1 x 50	50	2010-11	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
3	Beye	1 x 30	30	2004-05	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
4	Deopani Ph-I MHS	3 x 250	500	1986-87	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
5	Deopani Ph-II MHS	3 x 250	500	2004-05	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
6	Abhapani MHS at Simari	(2 x 100) + (1 x 250)	350	1994-95	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
7	Awapani Ph-I at LG	3 x 50	50	1994-95	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
8	Sijen MHS at Adi Pasi	1 x 50	50	2011-12	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
9	Tah Nallah	2 x 50	100		Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
10	Ashapani MHS	2 x 30	30	2011-12	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
11	Hathipani MHS	2 x 50	100	2009-10	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
12	Pyabung MHS	1 x 30	30	2011-12	Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
13	Ngonalo at Vijaynagar	2 x 50			Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
14	Tahun Nallah	2 x 50			Write-off sanctioned vide Memo No. HPD-EZ-14012/2/2021-CE(EZ)DHPD/38-43 Dtd. 24th April 2024
Total of WZ		2765	1840		

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