

**CENTRAL ELECTRICITY REGULATORY COMMISSION  
NEW DELHI**

**Petition No. 232/GT/2020**

**Coram:**

**Shri P.K. Pujari, Chairperson  
Shri I.S. Jha, Member  
Shri Arun Goyal, Member  
Shri Pravas Kumar Singh, Member**

**Date of Order: 11<sup>th</sup> May, 2022**

**In the matter of**

Petition for approval of tariff of Doyang Hydroelectric Project (75 MW) of NEEPCO Ltd for the period from 1.4.2019 to 31.3.2024

**And**

**In the matter of**

North Eastern Electric Power Corporation Limited,  
Corporate Office: Brookland Compound, Lower New Colony,  
Shillong-793003

**.... Petitioner**

**Vs**

1. Assam Power Distribution Company Limited,  
"Bijulee Bhawan" Paltanbazar,  
Guwahati-781001, Assam
2. Meghalaya Power Distribution Corporation Limited,  
Lumjinshai, Short Round Road,  
Shillong-799001, Meghalaya
3. Tripura State Electricity Corporation Limited,  
Bidyut Bhavan, North Banamalipur,  
Agartala-799001, Tripura
4. Power & Electricity Department,  
Government of Mizoram, New Secretariat Complex,  
Kawlpetha, Aizwal-796001
5. Manipur State Power Distribution Company Limited,  
3<sup>rd</sup> Floor, New Directorate Building, Near 2<sup>nd</sup> M.R. Gate,  
Imphal-Dimapur Road, Imphal-795001, Manipur
6. Department of Power,  
Government of Arunachal Pradesh,  
Vidyut Bhawan, Itanagar-791111



7. Department of Power,  
Government of Nagaland ,  
Electricity House, AG Colony,  
Kohima-797001
8. North Eastern Regional Power Committee,  
NERPC Complex, Dong Parmaw, Lapalang,  
Shillong-793006
9. North Eastern Regional Load Despatch Centre,  
Dongtieh, Lower Nongrah, Lapalang,  
Shillong-793006

.....Respondents

**Parties Present:**

Shri Devapriya Choudhury, NEEPCO  
Shri Prabal Mukhopadhyaya, NEEPCO  
Ms. Elizabeth Pyrbot, NEEPCO

**ORDER**

This petition has been filed by the Petitioner, NEEPCO, for approval of tariff of Doyang Hydroelectric Project (3 x 25 MW) (hereinafter referred to as “the generating station”) for the period for the 2019-24 tariff period in accordance with the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019 (hereinafter referred to as 'the 2019 Tariff Regulations').

**Background**

2. The project comprises of three units of 25 MW capacity each and is a run of the river scheme with pondage having a Head Race Tunnel and a surface Powerhouse with a corresponding reservoir. The date of commercial operation of the units/station is as under:

Units	Actual COD
I	29.6.2000
II	5.7.2000
III / Generating Station	8.7.2000

3. Petition No. 43/GT/2015 was filed by the Petitioner for approval of tariff of the generating station for the 2014-19 tariff period and the Commission vide its order



dated 13.1.2016 approved the annual fixed charges of the generating station. Subsequently, by corrigendum order dated 7.3.2016 in the said Petition No. 43/GT/2015, the annual fixed charges approved vide order dated 13.1.2016 were revised, after applying the effective tax rate applicable for the year 2014-15 for all the years for the 2014-19 tariff period. Thereafter, in Petition No.293/GT/2019 filed by the Petitioner for truing-up of tariff of the generating station for the 2014-19 tariff period, the Commission vide its order dated 31.3.2022 approved the annual fixed charges and the capital cost of the generating station, as under:

#### **Annual Fixed Charges allowed**

	<b>(Rs.in lakh)</b>				
	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
Depreciation	1127.43	1157.62	1180.24	1184.82	1182.64
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	4114.65	4445.28	5054.73	4550.57	4199.17
O&M Expenses	3900.10	4159.22	4435.56	4730.26	5044.54
Interest on Working Capital	336.11	358.73	388.55	393.33	402.55
<b>Total</b>	<b>9478.29</b>	<b>10120.85</b>	<b>11059.07</b>	<b>10858.97</b>	<b>10828.90</b>

#### **Capital Cost allowed**

	<b>(Rs.in lakh)</b>				
	<b>2014-15</b>	<b>2015-16</b>	<b>2016-17</b>	<b>2017-18</b>	<b>2018-19</b>
Opening Capital Cost	63806.14	63985.70	64848.77	64894.14	64897.29
Additional Capitalization allowed	179.56	863.07	45.37	3.15	(-) 128.94
Closing Capital Cost	63985.70	64848.77	64894.14	64897.29	64768.35
Average Capital Cost	63895.92	64417.24	64871.46	64895.71	64832.82

#### **Present Petition**

4. The Petitioner has filed the present petition for approval of tariff of the generating station for the 2019-24 tariff period in terms of the provisions of the 2019 Tariff Regulations. Accordingly, the capital cost and the annual fixed charges claimed by the Petitioner are as under:

## Capital Cost claimed

	(Rs.in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Opening Capital Cost	65302.87	66127.87	67159.21	68024.29	68184.29
Add: Addition during the year/period	825.00	1075.00	900.00	160.00	50.00
Less: De-capitalization during the year/ period	0.00	43.66	34.93	0.00	0.00
Less: Reversal during the year/ period	0.00	0.00	0.00	0.00	0.00
Add: Discharges during the year/ period	0.00	0.00	0.00	0.00	0.00
Closing Capital Cost	66127.87	67159.21	68024.29	68184.29	68234.29
Average Capital Cost	65715.37	66643.54	67591.75	68104.29	68209.29

## Annual Fixed Charges claimed

	(Rs.in lakh)				
	2019-20	2020-21	2021-22	2022-23	2023-24
Depreciation	1226.53	956.36	997.41	1051.50	1100.27
Interest on Loan	0.00	0.00	0.00	0.00	0.00
Return on Equity	4043.53	4077.27	4111.74	4130.37	4134.19
Interest on Working Capital	363.14	348.04	338.09	352.94	368.19
O&M Expenses	5654.57	5924.10	6206.47	6502.31	6812.24
<b>Total</b>	<b>11287.77</b>	<b>11305.77</b>	<b>11653.71</b>	<b>12037.12</b>	<b>12414.89</b>

5. The Respondent No. 1, APDCL has filed its reply vide affidavit dated 29.6.2021 and the Petitioner vide affidavit dated 19.7.2021 has filed its rejoinder to the said reply. Thereafter, this Petition was heard on 27.7.2021 through virtual conferencing and the Commission, after hearing the parties, reserved its order in the matter. Taking into consideration the submissions of the parties and the documents available on record, we proceed to determine the tariff of the generating station for the 2019-24 tariff period, on prudence check, as stated in the subsequent paragraphs.

## Capital Cost

6. Regulation 19(3) of the 2019 Tariff Regulations provides as under:

*“(3) The Capital cost of an existing project shall include the following:*

*(a) Capital cost admitted by the Commission prior to 1.4.2019 duly trued up by excluding liability, if any, as on 1.4.2019;*



- (b) *Additional capitalization and de-capitalization for the respective year of tariff as determined in accordance with these regulations;*
- (c) *Capital expenditure on account of renovation and modernisation as admitted by this Commission in accordance with these regulations;*
- (d) *Capital expenditure on account of ash disposal and utilization including handling and transportation facility;*
- (e) *Capital expenditure incurred towards railway infrastructure and its augmentation for transportation of coal upto the receiving end of generating station but does not include the transportation cost and any other appurtenant cost paid to the railway; and*
- (f) *Capital cost incurred or projected to be incurred by a thermal generating station, on account of implementation of the norms under Perform, Achieve and Trade (PAT) scheme of Government of India shall be considered by the Commission subject to sharing of benefits accrued under the PAT scheme with the beneficiaries.”*

7. The Petitioner in its original petition has claimed the opening capital cost of Rs.74586.70 lakh as on 1.4.2019. This was revised by the Petitioner to Rs.65302.87 lakh vide affidavit dated 19.7.2021. However, the Commission vide its order dated 31.3.2022 in Petition No. 293/GT/2019 had approved the closing capital cost of Rs.64768.35 lakh, on cash basis, as on 31.3.2019. Accordingly, in terms of Regulation 19(3) of the 2019 Tariff Regulations, the closing capital cost of Rs.64768.35 lakh, on cash basis, has been considered as the opening capital cost as on 1.4.2019.

### **Additional Capital Expenditure**

8. Clauses (1) and (2) of Regulation 25 and clause (1) of Regulation 26 of the 2019 Tariff Regulations, provides as under:

- “25. Additional Capitalisation within the original scope and after the cut-off date:*
- (1) The additional capital expenditure incurred or projected to be incurred in respect of an existing project or a new project on the following counts within the original scope of work and after the cut-off date may be admitted by the Commission, subject to prudence check:*
    - (a) Liabilities to meet award of arbitration or for compliance of the directions or order of any statutory authority, or order or decree of any court of law;*
    - (b) Change in law or compliance of any existing law.*
    - (c) Deferred works relating to ash pond or ash handling system in the original scope of work;*
    - (d) Liability for works executed prior to the cut-off date;*



- (e) Force Majeure events;
  - (f) Liability for works admitted by the Commission after the cut-off date to the extent of discharge of such liabilities by actual payments; and
  - (g) Raising of ash dyke as a part of ash disposal system.
- (2) In case of replacement of assets deployed under the original scope of the existing project after cut-off date, the additional capitalization may be admitted by the Commission, after making necessary adjustments in the gross fixed assets and the cumulative depreciation, subject to prudence check on the following grounds:
- (a) The useful life of the assets is not commensurate with the useful life of the project and such assets have been fully depreciated in accordance with the provisions of these regulations.
  - (b) The replacement of the asset or equipment is necessary on account of change in law or Force Majeure conditions;
  - (c) The replacement of such asset or equipment is necessary on account of obsolescence of technology; and
  - (d) The replacement of such asset or equipment has otherwise been allowed by the Commission

**26. Additional Capitalisation beyond the original scope**

- (1) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:
- (a) Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;
  - (b) Change in law or compliance of any existing law;
  - (c) Force Majeure events.
  - (d) Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security.
  - (e) Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case-to-case basis:  
Provided also that if any expenditure has been claimed under Renovation and Modernisation (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation.
  - (f) Usage of water from sewage treatment plant in thermal generating station. xxxx”

9. The year-wise break-up of the projected additional capital expenditure (including discharges of liabilities) claimed by the Petitioner for the 2019-24 tariff period is as under:

	<b>(Rs.in lakh)</b>				
	<b>2019-20</b>	<b>2020-21</b>	<b>2021-22</b>	<b>2022-23</b>	<b>2023-24</b>
Additions during the year/period	825.00	1075.00	900.00	160.00	50.00
Less: De-capitalization during the year/ period	0.00	43.66	34.93	0.00	0.00
Less: Reversal during the year/ period	0.00	0.00	0.00	0.00	0.00



Add: Discharges during the year/ period	0.00	0.00	0.00	0.00	0.00
<b>Net additional capital expenditure claimed (on projected basis)</b>	<b>825.00</b>	<b>1031.34</b>	<b>865.07</b>	<b>160.00</b>	<b>50.00</b>

10. The projected additional capitalisation claimed by the Petitioner can be categorised as (i) Additional capital expenditure in respect of works already approved by Commission but which are continued/ spilled over from the 2014-19 tariff period; and (ii) additional capital expenditure for new items. We now proceed to deal with the additional capital expenditure claimed in the following paragraphs.

#### **(A) Spill Over Works-Admitted works**

11. The Petitioner has claimed projected additional capital expenditure on account of assets/works which have been spilled over as follows:

<i>(Rs.in lakh)</i>				
Sl. No.	Works/ Items	Amount Claimed	Regulation	Justification submitted by the Petitioner
<b>2019-20</b>				
1.	Plant & Machinery in Generation Station: Up-gradation of Electromechanical relays to numerical relays & EM energy meters to ABT Compliant digital meters	250.00	26(1)(d)	Provision for retrofitting of numerical relay, and ABT based Energy meter was already approved for additional capitalization during the 2014-19 tariff period for Rs. 250.00 lakh. The work has been carried over to the 2019-24 period and will be completed by 2019-20. Drawings have been finalized and detailed order for supply, installation, retrofitting, testing and commissioning has been issued. The delivery of materials at site is expected by first week of September 2019. The commencement of work, retrofitting, installation and commissioning of numerical relay is likely to start by the last week of September, 2019.
2.	Fire-Fighting Equipment: Replacement of CO2 Fire fighting system of 3 Numbers Generator	50.00	25(1)(d)	Provision for replacement of CO <sub>2</sub> firefighting system for three generators were approved as additional capital expenditure for the 2014-19 tariff period for Rs.50.00 lakh. The work has been carried over to the 2019-24 tariff period and shall be taken up in 2019-20. Initially the OEM M/s Technico, Kolkata was approached for replacement of CO <sub>2</sub> Fire Fighting





Sl. No.	Works/ Items	Amount Claimed	Regulation	Justification submitted by the Petitioner
				system for 3 (three) nos. Generators. Although they had deputed their representative to Plant site, later on M/s Technico did not respond and as such the tender process is being initiated.
3.	Fire Fighting Equipment: Procurement of Fire Tender 4500 litres.	40.00	26(1)(d)	Provision for procurement of fire tender of 4500 litres. The additional capital expenditure was approved for this item during the 2014-19 tariff period for Rs.40.00 lakh and the work has been carried over to the 2019-24 tariff period. Tender was floated from HQ for procurement of Fire Tender for the generating station along with Fire Tenders for Kameng HEP and Pare HEP. The replacement of this asset was allowed under Regulation 14(3)(viii) of the 2014 tariff regulations on the ground that the asset will facilitate successful and efficient operation of plant.
<b>2020-21</b>				
4.	Water supply; sewerage & drain: Installation of Permanent water source for the use of the colonies and installation of Water purification scheme	400.00	26(1)(d)	Since the commissioning of the plant, there is no proper/permanent water supply scheme for providing potable water to the employees of the generating station. Presently, the water supply is tapped from a reservoir from un-acquired land. Besides there is no filtration scheme for purification of the raw water thereby the quality of the water tends to fall during heavy rains due to high turbidity and silt content. The proposed Installation of permanent water source and installation of water purification scheme was approved by the Commission under additional capital expenditure during the 2014-19 tariff period. However due to land dispute during site selection for the source, the design and drawing could not be finalized. Upon finalization of design, the estimate has been framed. The proposal is in tendering stage at HQ C&P cell Shillong, and is proposed to be executed.

12. It is evident from the above that the assets/ works in Sl. No. 1 to Sl. No. 4 above, were allowed by the Commission vide order dated 13.1.2016 in Petition





No.43/GT/2015 under Regulation 14(3)(viii) of 2014 Tariff Regulations. The Petitioner has pointed out that these items could not be completed within the 2014-19 tariff period for reasons as mentioned therein. It has, however, submitted that purchase orders for all these assets/works have been placed and the same will be completed during the 2019-24 tariff period. It is noticed from records that the Commission vide its order dated 13.1.2016 in Petition No. 43/GT/2015 had allowed these assets/works under Regulation 14(3)(viii) of the 2014 Tariff Regulations, on the ground that these assets/works were required for efficient operation of the plant. In view of this, and since these assets/works are spill over works which are in progress and expected to be completed during the 2019-24 tariff period, we allow additional capitalisation of the same, in exercise of the power to relax, under Regulation 76 of the 2019 Tariff Regulations. Accordingly, the projected additional capital expenditure Rs.740 lakh claimed by the Petitioner is allowed.

## **(B) New Claims**

### **2019-20**

13. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2019-20, based on the prudence check of the justification furnished by the Petitioner are as under:

<b>(Rs.in lakh)</b>					
<b>Works/ Items</b>	<b>Amount claimed</b>	<b>Regulation</b>	<b>Justification by the Petitioner</b>	<b>Admissibility</b>	<b>Amount allowed</b>
Transformer having rating 100 KVA & above: Procurement of 1(one) number new 28.5 MVA, 11/132 kV Generator Transformer	350.00	26(1)(d)	In order to avoid prolonged forced outages of Units and subsequent loss of generation and financial loss due to failure of Generator Transformers (GT), a new spare Generator Transformer is very much essential. Doyang GT of Unit-II has been repaired four times,	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is towards procurement of the Spare generator transformer. Since the projected additional capital expenditure claimed is in the nature	0.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			as such next failure also cannot be ruled out. The OEM of the GTs in DHEP i.e. M/S Bharat Bijlee Limited has recommended for procurement of a new GT instead of repeated repairing of GT of Unit II. In order to replace the repaired GT of Unit II, procurement of a new GT of the same capacity has already been initiated through open tender process.	of capital spares and since capital spares after the cut-off date, are not allowed, the claim of the Petitioner is <b>not allowed</b>	
Plant & Machinery in Generation Station: De-watering and Drainage pump sets including control panels with automatic level controller	60.00	26(1)(d)	Ageing and prolonged use of the existing drainage and dewatering pump motor sets has led to their wear and tear and of late these pump motor sets are giving frequent problems necessitating repeated repairs. As such the dewatering and drainage pump motor sets need to be replaced at the earliest in order to avoid flooding of Powerhouse and loss of generation in the event of failure of the existing Dewatering and Drainage motor pump sets. It is proposed to procure new pumps sets of same type and capacity at the earliest.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of existing drainage pump sets, to avoid the flooding of the powerhouse. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	60.00
Switchyard including cable connection: Procurement of Current Transformers (CTs) with CTR 600/1 to replace the existing CTs of CTR	75.00	26(1)(d)	As discussed in the OCC meeting and agreed by all constituents, and an important requirement for grid stability, upgradation of CTs is required to be done in order to increase power flow and to maintain grid stability. The existing CTs of CTR 300/1 of outgoing feeders and Bus coupler	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of upgradation of existing Current Transformers to increase the power flow and grid stability. It is observed from the Petitioner's submission	75.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
300/1 in the outgoing feeders, bus coupler in the 132kV Switchyard, DHEP. Total CTs required to be procured with CTR 600/1 including 3 nos. spare CTs will be 18 (eighteen) numbers only.			are to be replaced with CTs of CTR 600/1.	that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	
<b>Total amount claimed</b>	<b>825.00</b>				
<b>Total amount allowed</b>					<b>135.00</b>

## 2020-21

14. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2020-21, on prudence check of the justification furnished by the Petitioner, are as under:

(Rs.in lakh)					
Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
Plant & Machinery in Generation Station: Cooling water pipe line replacement with SS pipes	100.00	26(1)(d)	The condition of the existing MS pipes in the Powerhouse is in a deplorable condition and need to be replaced as the MS pipes have outlived their life. It may be noted that the state of Nagaland has coal deposits in the upstream side of the dam and due to sulphation, the cooling water is likely to be affected leading to corrosion of MS pipes in	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of the existing MS pipes with new ones. . In view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis, under the Regulation 25(2)(c) of the 2019	100.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			the Powerhouse and outage of machines. In order to prevent outage due to cooling water pipeline failure, the MS pipe lines in the Power House are proposed to be replaced with SS pipe lines as adopted at Kopili and Khandong Power House.	Tariff Regulations.	
Plant & Machinery in Generation Station: Pre-loaded spring mattress for thrust bearings to be replaced for all 3(three) units.	150.00	26(1)(d)	It has been observed that the rotor dynamic level has been affected due to losing spring tension of spring mattresses thereby affecting the properties of pre-loaded spring mattress for thrust bearing. Rotor dynamic levelling going out of prescribed value will affect the performance of Guide bearing, balancing of machine etc. In order to safe guard the machines from any mechanical abnormality, and to increase the efficiency of the machines, it is required to replace the complete set of thrust bearing pre-loaded spring mattress in all three units.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement of thrust bearings to safeguard the machine from any mechanical abnormality. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	150.00
T&P(special): Procurement of new turbine oil filtration unit	15.00	26(1)(d)	The existing turbine oil filtration machine is more than 20(twenty) years old and it frequently breaks down hampering the functioning of machines due to guide bearing problem. In order to avoid down time and prevent forced outage of the machine, procurement of a new turbine oil filter machine for replacing the old one	The Petitioner has submitted that the projected additional capital expenditure under this head is on account of replacement of oil filtration unit to avoid down time and prevent forced outage. In view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis,	15.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			is necessary.	under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	
Plant & Machinery in Generation Station: Disaster Management pumping system in case of flooding of Powerhouse.	50.00	26(1)(d)	2 (two) nos. of 30 HP pumps of 4000 lpm discharge each are to be installed in the runner gallery to enable pumping out of water in the event of flooding of Powerhouse.	The Petitioner has submitted that the projected additional capital expenditure under this head is towards procurement of the pumps to protect the plant from flooding. However, the Petitioner has not submitted any documentary evidence indicating that the claim for this asset is based on advice from Government of India instrumentality or statutory agencies responsible. In view of this, the projected additional capital expenditure claimed under this head is <b>not allowed</b> . The Petitioner, may, at the time of truing up of tariff claim the expenditure with proper documentary evidence and in terms of the relevant provisions of the 2019 Tariff Regulations	00.00
Plant & Machinery in Generation Station: Requirement of new 220V DC battery bank-II	80.00	26(1)(d)	For 100% redundancy and as recommended by protection team and as per the CEA guide lines, an alternative DC source i.e. DC source II is a must. In the event of failure of DC control circuit, the whole DC control system will fail and will lead to catastrophic shutdown of the machines. As such requirement of 220 V DC Bank II is required.	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is on account of replacement existing battery bank to achieve 100% redundancy as per CEA guidelines. It is observed from the Petitioner's submission that the expenditure claimed for assets under this head, are on replacement basis. In	80.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
				view of this, the additional capital expenditure claimed is <b>allowed</b> on replacement basis, under the Regulation 25(2)(c) of the 2019 Tariff Regulations.	
Dam/Reservoir/Spillway: Study of siltation of Doyang Reservoir	30.00	26(1)(d)	It is observed that huge quantity of silt deposits is being accumulated in the Doyang reservoir, due to which the storage capacity of the reservoir is decreasing day by day which will affect the generation output of the plant. Project Authority hereby proposes for siltation study of the reservoir.	It is observed that the study of siltation of Doyang Reservoir do not relate to the higher safety & security of the plant. Accordingly, the additional capital expenditure claimed for this asset/work is <b>not allowed</b> .	0.00
Dam/Reservoir/Spillway: Protective measures to reduce Siltation	50.00	26(1)(d)	After completion of the study of Reservoir siltation, Protective measures like construction of Check dams, Gully plugging etc. shall be taken up in the tributaries of Doyang river, Prone landslide zones of the Catchment area to avoid further siltation in the reservoir.	It is observed that the projected additional capital expenditure claimed in respect of the said asset/work, is recurring in nature and hence, the Petitioner may bear the same from the normative O&M expenses allowed to the generating station. Accordingly, the projected additional capital expenditure claimed under this head is <b>not allowed</b> .	0.00
Pmt. Roads: Improvement of colony road: Phase I	200.00	26(1)(d)	Since commissioning of the plant, no major upgradation/ maintenance works of Roads were taken up. The project is linked by 12.41 km of internal roads which are in deplorable condition. Since the generating station is located in the remotest hilly terrain and due to its abnormal monsoon conditions,	It is observed from the submissions of the Petitioner that the additional capital expenditure claimed for the said asset do not relate directly to the higher safety & security of the plant. Accordingly, the expenditure claimed is <b>not allowed</b> .	0.00



Works/ Items	Amount claimed	Regulation	Justification by the Petitioner	Admissibility	Amount allowed
			major portion of the road & drains have been badly damaged leading to undue hardship of the plant Engineers and workers. Moreover, in some portion existing culverts are damaged and in deplorable state. Due to the dilapidated condition of the road with presence of numerous potholes all along the stretch which poses threat to life of the commuters (employees)		
<b>Total amount claimed</b>	<b>1075.00</b>				
<b>Total amount allowed</b>					<b>345.00</b>

## 2021-22

15. The admissibility of the projected additional capital expenditure claimed by the Petitioner and allowed in 2021-22, on prudence check of the justification furnished by the Petitioner, are as under:

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner	(Rs.in lakh) Admissibility	Amount allowed
T&P(special): Online oil filter machine for bearing housing	70.00	26(1)(d)	The Online oil filtration system is required for bearing housing, where continuous oil filtration will be there, even during machine under standstill condition. This process will ensure the quality of oil and remove any micro particles from the oil, and through this system the machine performance, guide bearing performance, the quality of oil and its cooling effectiveness will be	The Petitioner has submitted that the projected additional capital expenditure claimed under this head is to ensure the quality of oil to enhance the performance of the machine. However, the Petitioner has not submitted any documentary evidence indicating that the claim for this asset is based on advice from any Technical	00.00

