

**Petition for Approval of
Capital Investment Plan
For FY 2026-27 to FY 2029-30**

BEFORE

**THE HON'BLE CHHATTISGARH STATE ELECTRICITY
REGULATORY COMMISSION, RAIPUR, CHHATTISGARH**

December 2025



**CHHATTISGARH STATE POWER GENERATION COMPANY LIMITED,
RAIPUR**

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List of Abbreviations

Acronym	Definition
ABVTPS	Atal Bihari Vajpayee Thermal Power Station
ARR	Aggregate Revenue Requirement
AOH	Annual Overhaul
Capex	Capital Expenditure
CHP	Coal Handling Plant
CIP	Capital Investment Plan
CERC	Central Electricity Regulatory Commission
COD	Commercial Date of Operation
COH	Capital Overhaul
CSERC	Chhattisgarh State Electricity Regulatory Commission
CSEB	Chhattisgarh State Electricity Board
CSPGCL	Chhattisgarh State Power Generation Company Limited
CSR	Corporate Social Responsibility
DPR	Detailed Project Report
DSPM TPS	Dr Shyama Prasad Mukherjee Thermal Power Station
EA 2003	Electricity Act 2003
EC	Environment Clearance
ECS	Emission Control System
E&M	Electrical & Mechanical
ESP	Electrostatic Precipitator
FY	Financial Year
GoCG	Government of Chhattisgarh
GFA	Gross Fixed Assets
Genco	Generation Company
HEP / HPS	Hydro Electric Plant / Hydro Power Station
HTPS KW	Hasdeo Thermal Power Station Korba West
IDC	Interest During Construction
Kv	Kilovolt
LE	Life Extension
MoEF	Ministry of Environment & Forest
MYT	Multi Year Tariff
MW	Megawatt
O&M	Operations and Maintenance
PLF	Plant Load Factor
PFC	Power Finance Corporation
PV	Price Variation
R&M	Renovation and Modernisation
R&M Expenses	Repair & Maintenance Expenses
RoE	Return on equity
TPP / TPS	Thermal Power Plant / Thermal Power Station
VFD	Variable Frequency Drive

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**BEFORE THE HON'BLE CHHATTISGARH STATE ELECTRICITY
REGULATORY COMMISSION RAIPUR, CHHATTISGARH**

IN THE MATTER OF:

Approval of Capital Investment Plan of Chhattisgarh State Power Generation Co. Ltd. (CSPGCL) for the next control period i.e. FY 2026-27 to FY 2029-30.

THE APPLICANT:

Chhattisgarh State Power Generation Co. Ltd. :-

A Company incorporated under the provisions of the Companies Act and having its registered office at Vidyut Sewa Bhawan, Dangania, Raipur. CSPGCL is one of the Successor Companies of erstwhile Chhattisgarh State Electricity Board.

LEGAL PROVISIONS

The petition is filed under Section 62 and 86 of the Electricity Act, 2003 read with the CSERC (Terms and Conditions for determination of Multi-Year Tariff) Regulations, 2025, (hereinafter referred as MYT Regulation 2025). Petition also relies on settled orders / guidelines of the Hon'ble Commission.

CSPGCL files the instant petition in reference to the said provisions and prays for approval of the instant Capital Investment Plan for FY 26-27 to FY 29-30.

PRAYER

CSPGCL prays the following before the Hon'ble Commission to:

- 1) To consider the submissions and approve the instant Capital Investment Plan for consideration of tariff impact of proposed capitalisation during the control period as prayed in the instant petition
- 2) To exercise the 'Power to Relax' and 'Power to Remove Difficulty' and such other powers including inherent powers vested with the Hon'ble Commission as implied/ pleaded / prayed in relevant sections.
- 3) To condone any inadvertent omissions/ errors/ shortcomings and permit to add/ change/ modify/ alter this filing and make further submissions as may be required.
- 4) To allow recovery of petition filing fee and advertisement expenses.
- 5) To pass such any other suitable relief to the petitioner which Hon'ble Commission may find deem fit.

Dated

For
Chhattisgarh State Power Generation Co. Ltd., Raipur

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A. INTRODUCTION

COMPANY OVERVIEW

1. The Chhattisgarh State Power Generation Company Limited became functional w.e.f. 1st January 2009 subsequent to reorganization of Chhattisgarh State Electricity Board by the Govt. of Chhattisgarh.

HISTORY

2. For the current control period (FY 2022-23 to FY 2024-25), Hon'ble Commission approved the Capital Investment Plan vide order Dt. 27.04.22 in CSPGCL's Petition no 73 of 2021. Further additional Capital Investment Plan for FY 24-25 was approved by the Hon'ble Commission vide order dated 15.03.2024 in Petition no. 84 of 2023. As MYT regulation for the next control period got delayed therefore, in accordance to the directions of the Hon'ble Commission, CSPGCL filed Tariff / Capital Investment Plan petition for FY 25-26 on or around 29th November 2024 broadly in accordance to the principles specified in prevailing Regulations. After preliminary satisfaction, on or around 4th December, 2024, Hon'ble Commission registered the CIP petition as Petition no 99 of 2024 (M). Hon'ble Commission passed the order on the same on 08th July 2025.
3. The Regulation for the next control period has been published in the Gazette on 11th December 2025. Next control period is from 1st April 2026 to 31st March 2030. For filing of the petitions, vide letter no 2000 dated 3rd December 2025, Hon'ble Commission allowed time upto 31st December 2025.
4. CSPGCL files the instant petition in reference to the provisions of the aforesaid Regulation and prays for approval of the instant Capital Investment Plan for FY 26-27 to FY 29-30 and consider the tariff impact of proposed capitalisation during the control period as prayed in the instant petition.

B. Approach to Instant Capital Investment Plan Petition

5. The instant petition is filed in accordance to the CSERC MYT Regulations 2025. The schemes relate to all such capital nature works, which qualify for additional capitalisation having a bearing on the tariff / ARR of the plant as covered in Regulation 7.5, but excludes schemes under Regulation 5.8 & 5.9. As per the Regulations, for such schemes, separate petition will be filed at the time of determination of provisional tariff or the supplementary tariff, as the case may be.
6. For each of the plant, the schemes being submitted are listed under following two categories:
 - a. **Spill Over Schemes**: These are the schemes approved by the Hon'ble Commission in the previous order for the current control period and expected to continue in the ensuing control period. It may kindly be appreciated that unlike the routine Repair & Maintenance works carried through revenue budget, Capital nature schemes generally span more than one year and have their own design, drawing and execution related intricacies. It is for this purpose that Capital Investment Plan is normally conceived for a multi-year control period and they have perpetual seamless currency. In fact, in the order dated 29.03.2014 in the petition no 82 of 2013 (M) Hon'ble Commission laid down the principle :

“..For all such schemes, approved in any previous order but now spilling over to ensuing years, though the currency will remain valid but the capitalisation shall be revisited during the true up based on actual capital expenditure incurred.”

It is submitted that in line with the settled practice over the number of previous orders, the submission of spill over schemes is mostly for the purpose of smooth referencing (so that at the time of true up, reference to previous orders is minimised) and only in exceptions where there is substantive change of cost or scope or the applicable conditions, they are represented. As the schemes have been approved after due process, for the sake of brevity need and justification of the individual scheme is not iterated and leave is craved for submission of the same, if need arises.

Regarding the Spill over schemes, it is respectfully submitted that 5 year MYT framework (as envisaged in the tariff policy) was expected from 01.04.2025 to

31.03.2030, however the same could not be finalised and Hon'ble Commission on 30th October 2024 preferred a direction to opt for one year CIP and tariff for FY25-26. In compliance, CSPGCL submitted the CIP petition on or around 29th November 2024, which was registered as petition no. 99 of 2024 on 4th December, 2024 and finally decided by Hon'ble Commission on 8th July 2025. As the CIP was for one year, hence looking to the nature of schemes their continuation to the ensuing year is quite normal and unavoidable. Hon'ble Commission itself has taken notice of the issue and in the order has provided:

“If the petitioner fails to initiate the work, including tendering process, procurement of land etc., within a period of one year from the date of receipt of approval, the approval shall be deemed to be cancelled.”

It may be seen that the order served on or around 12th July 2025, clearly provide margin that for continuation of the approval granted by the Hon'ble Commission, initiation of work (and not the completion) on a scheme is mandatory within one year i.e by or around 11th July 2026. Further, to remove any doubt or misinterpretation / ambiguity in future, Hon'ble Commission has also clearly stipulated that initiation of work includes initiation of tendering process, procurement of land etc. CSPGCL thankfully acknowledge the clarity imparted by the Hon'ble Commission in this regard. Accordingly, it may be appreciated that approval of all the schemes approved in the referred order dated 08th July 2025, shall be valid and continue in force provided the work (including tendering process, land procurement etc) is initiated by 11th July 2026. CSPGCL respectfully submits that at this stage, it is reasonably confident that on almost all the schemes approved by the Hon'ble Commission in the order dt 08.07.2025, the work (including tendering process, land procurement etc) shall be initiated by 11th July 2026. Even at the cost of repetition, it is submitted that barring few exceptions wherein there is substantial change (as dealt in respective sections), the inclusion in the instant petition is mostly for the purpose of future smooth referencing.

In the above context, CSPGCL also submit that on some of the schemes, Price bids have been opened / LOI issued or work is already in progress and now it is expected that under Business As Usual (BAU) scenario, work may be completed by 31st March 2026. Hence, to avoid repetition and bulging of petition, such schemes have not been included in the petition. However, even in such cases, depending upon the circumstances, there may be some

inadvertent delay or there may be some retained capex (by virtue of retention against Performance Guarantee or PG Test or clearance of Royalty or final bill payment etc, as the case may be). CSPGCL understands that as elaborated in pre paras the approval to such schemes will remain unfettered and valid irrespective of their non inclusion / referencing in the instant petition. CSPGCL crave leave to cite the approval dated 08.07.2025 as and when the same shall be required during true up of future years.

- b. **New Schemes**: For such schemes, brief description related to need /justification has been attached in the relevant sections. Leave is craved for submission of further detailing on any of the scheme as may be required during proceedings. Phasing has been mentioned in the respective Annexures. New schemes also include the schemes which are expected to commence during the control period but completion is expected in next control period.
7. Further, under both the categories, the relevant Regulation under which the approval of each scheme has been sought, is also mentioned. Though mostly the schemes are covered under the provisions of Regulation 19 however there are number of schemes for which “in-principle” approval is being prayed under Regulation 20 of the MYT Regulation 2025. These are the schemes, for which the need has been recognised but due to various factors such as (but not limited to) technological evolution/ transformation, the uncertainties about the legal framework, the revision of time lines by the statutory authorities, the shortage of specialised vendors etc. the cost estimates or the time estimates or both are fluid at this stage and cannot be submitted with reasonable degree of confidence. However, considering MYT Regime it is prudent to capture all such submission for regulatory approval. It may kindly be appreciated that though internal decision making is a regular ongoing process, regulatory filing normally follows minimum one year cycle. The Act itself bars tariff resetting more than once in a year. In fact, Hon’ble Commission has itself recognised such need and has incorporated the enabling provision in the previous Regulation and has continued the same. CSPGCL is grateful for the same. For HTPS, prayer has been made under Regulation 22 with the settled exceptions.
8. Apart from the above generic submission, in light of the typical constraints and circumstances, plant specific prayers have been made in the relevant section.

Capital Structure

9. Unless otherwise specified for a particular scheme, generally the debt equity structure has been considered on normative basis i.e. D:E ratio of 70:30.
10. Further, unless otherwise expressly provided, the cost indicated for each of the scheme is without PV & IDC. Leave is craved for submission of such costs, as applicable, at the time of true up.

Plant wise Description

11. The 4 X 210 MW HTPS (Hasdeo Thermal Power Station) is the oldest serving thermal station. The last unit of the plant was commissioned in March 1986. The plant has completed its useful life in 2010 and as per Hon'ble APTEL order in appeal no 238 of 2014, decided on 30.03.2016 (Read with Tariff Order 2017-18) all assets prior to 2011 stand fully depreciated. Plant has not undergone any package-based comprehensive Life Extension (LE). At present, most of the capital works are being undertaken with the special allowance. The plan for the station is submitted in detail in the subsequent chapter. For the reasons detailed in the chapter, in the instant petition only selected few schemes are submitted in the Annexure – 1.
12. 2X250 MW DSPM TPS (Dr. Shyama Prasad Mukherjee Thermal Power Station) has installed capacity of 500 MW with 2 units of 250 MW each. The plant was commissioned in year 2008. The schemes proposed for the plant are submitted in the Annexure – 2.
13. The 1 X 500 MW KWTPP (Korba West Thermal Power Plant) achieved COD on 5th September 2013. The schemes proposed for the plant are submitted in the Annexure – 3.
14. The 2 X 500 MW ABVTPS (Atal Bihari Vajpai Thermal Power Station) achieved COD on 31st July 2016. The schemes proposed for the plant are submitted in the Annexure – 4.
15. The 3 X 40 MW Minimata Hasdeo Bango Hydro Electric Plant (also known as HEP Bango) is the only conventional hydro power plant in the State. The last unit of the plant was commissioned in January 1995. It provides cheapest power to the State at a tariff of less than Rs 1/- per unit. In addition, the plant also contributes

to the state exchequer by way of water tax. No capital investment was prayed up to CIPs for FY 20-21. After more than 20 years of continuous service, some Capital Investment has become inevitable. The proposals are submitted as Annexure – 5.

16. Apart from the above, the petition also includes a prayer for approval of Capex on New HO building under construction at Nava Raipur. Further, capitalisation (within the pre-approved capital cost) is expected for GP III mine also. The proposals are submitted as Annexure – 6.
17. Annexure 7 is the Summary of Expected Capitalisation against CIP Schemes for Control Period FY 26-27 to FY 29-30. Total 88 schemes (with total expected capitalisation of about Rs 781.97 Cr) are submitted. 44 are pre-approved schemes (with expected capitalisation of about 494.99 Cr) and 44 are new schemes (with expected capitalisation of about 286.99 Cr). Out of the pre-approved schemes, the biggest is GP III Mine (258.64 Cr), for which the Capital cost has already been approved by the Hon'ble Commission, the capitalisation submitted herein is only part of the same.

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C. Capital Investment Plan for 4x210MW HTPS Korba West

18. The 4x210MW HTPS Korba West Plant is the veteran war horse in the CSPGCL stable providing cheapest power to the state. The last unit of the plant was commissioned in March 1986. The TG (Turbine-Generator) of all the 4 units is of BHEL make while boilers of 2 units (Unit-I & II) are BHEL make and the other 2 units have boilers of ABL make. The plant has completed about 40 years of continuous satisfactory service without any package base Renovation and Modernization which may lead to PI (Performance Improvement) and LE (Life Extension). Earlier due to infeasibility (space constraint) of installation of ECS, the plant was scheduled for retirement by 2024-25. However, with post Covid resurgence in demand and also with the challenge of large scale RE integration, MoP has directed not to retire any thermal plant till March 2030. Accordingly, in compliance of the Government directive, the plant continues to be in operation.
19. When the current control period started and CIP petition was filed for the control period, at that time as the plant was scheduled to retire by the end of 2024, exercising prudence and conservatism, CSPGCL claimed half of the special allowance. However, as submitted in pre-paras, later on, the dictum of law changed and MoP directed not to retire any units till 2030. Consequently, in the very next petition, CSPGCL prayed for enhancement of special allowance to full value so as to ensure that units may survive upto 2030 and comply with the directives. Hon'ble Commission considered the submission and enhanced the special allowance to full value i.e Rs 9.5 Lakh / MW/ Year. Needless to submit that the enhancement stands for the whole control period.
20. Taking cognizance of the inflation, CERC in its MYT Regulation w.e.f. 01/04/2024 has enhanced the special allowance from Rs 9.5 Lakh / MW/ Year to Rs 10.75 Lakh/ MW/ year. The same has been adopted in CSERC MYT Regulation w.e.f. 01.04.2026.
21. As per the settled regulatory principle and practice adopted in the previous order/s, all capital works required for need based rolling renovation for the 4X210 MW HTPS (excluding already settled exceptions such as Compliance / Change of law, Compliance of statutory directions, deferred works related to Ash dyke, force majeure etc) are to be carried out through the "Special Allowance" at the rate of Rs. 10.75 Lakh/ MW/ year. Hence in the instant petition, prayer for approval of only such specific schemes is included which fall in criterion of such exceptions.
22. With the above, it is prayed that for HTPS for the period from FY 2026-27 to FY 2029-30 special allowance @ Rs 10.75 Lakh/ MW i.e Rs 90.30 Cr per year may

please be allowed. As submitted in the previous petitions and appreciated by the Hon'ble Commission, CSPGCL draws kind attention to the fact that throughout India there are number of units which have completed their useful life and have to undergo need-based renovation/ life extension. Major works require COH/ partial outages/ planned outages for a considerable time. To avoid bunching of such works at number of plants, at a particular time, leading to shortages in the grid particularly looking to the challenges of large scale RE integration and post pandemic demand surge, CEA has prepared a phasing plan. As per the CEA phasing plan, HTPS units are expected to undertake major works (requiring unit outages) during FY 2026-27 & FY 2027-28. Further, as a measure of prudent and pragmatic planning, CSPGCL also plans to undertake major works related to renovation/ life extension of the Long Distance Coal Conveyor (LDCC) system catering to the coal requirement of Korba West complex. It is submitted that LDCC is the lifeline for the complex. The system is continuously in operation for more than 40 years. Major works would require outages of streams affecting coal supply to the plant. Hence, undertaking such works along with major outages/ COH of 210 MW sets will lead to synergy in operation and reduced impact on energy availability to the grid. As per approval by the Hon'ble Commission 60% of the cost of LDCC is to be met from special allowance. Therefore, it is estimated that during these two years, on account of bunching of a lot of capital works, the actual capex may be much higher than the special allowance earmarked for those years.

23. The carryover proviso in the Regulation well appreciates that while avoidance of tariff shock prefers a constant normative loading in ARR, the physical execution of capital works can never be equally distributed to a number of years. It is for this purpose that the current regulations (MYT Regulations 2021) as well as the regulations for next control period both allow carryover of special allowance from one year to another. It is also prayed that CSPGCL may be allowed to incur additional capex in a particular year through the balance special allowance carried forward from previous year / control period. Further, in case the expense exceeds, in a particular year, advance against future years may also be allowed. CSPGCL respectfully clarifies that the aforesaid prayer is only an in-principle prayer and any claim for carryover of the previous period or advance against future years shall be submitted at the time of true-up subject to actual incurrence of expenditure and prudence check by the Hon'ble Commission. For the purpose of the ARR/ Tariff, the prayer is limited to grant of special allowance in accordance to the Regulation.

24. It is further submitted that as per prevailing environment provisions all thermal power plants are expected to install Cooling towers and some other ECS. HTPS is about 40 years old plant. There is space constraint which makes such installation infeasible. It was for this very reason that the plant was scheduled for retirement. However, in compliance of the MoP direction in the wake of post-pandemic demand surge and large-scale RE integration, the plant has been kept in operation. As MoP directive is akin to law, CSPGCL prays that being compliance of law, in case any compensation charges are to be paid, as allowed in previous orders, in principle pass through may please be continued. Further, if the MoP or any other statutory authority directs for early closure, CSPGCL crave leave to submit revised depreciation based on such revised life during true up of respective year/s.
25. The specific schemes related to HTPS as covered under already settled exceptions (in the previous orders) are submitted as Annexure -1. Hon'ble Commission is prayed to approve the same.

Spill Over Schemes

26. The first scheme in this category is 2nd stage Raising of Lagoon I A from R.L. 313.00 M to 318.00 M. at Ash Dyke Jhabu. The scheme was submitted in the CIP for FY 2025-26 clearly indicating that the scheme shall be implemented over a period beyond FY 2025-26. Hon'ble Commission allowed the same in the order dated 8th July, 2025. As such, there is no slippage and the submission in the instant petition is only a continuation of the prevailing order. The minor variation in the cost (Rs. 6.88 Cr in place of Rs. 6.45 Cr) is just because of the deviation in the price discovered through open transparent competitive bidding vis-à-vis the estimation made earlier. In this regard it may be pertinent to submit that the scheme was originally approved in the CIP order dated 27.04.2022 for the period extending beyond MYT control period and in the same the approved cost was Rs. 7.16 Cr (Page 16 of the order). Thus as far as original approval is concerned the discovered cost is lower than the same. Order for the work has been placed and the work is in progress. As the original approval and the subsequent approval both were under Regulation 19.2(v) and the applicable Regulation in the new regulations is same, hence, approval is prayed under the same Regulation i.e. 19.2(v).
27. Installation of Brick manufacturing unit in compliance of CTO by CECB - This particular scheme is submitted for in-principle approval at this stage. The reason for craving in-principle approval lies in the previous suggestion by the Hon'ble Commission. CSPGCL has filed a request to CECB for exemption from the conditionality imposed in the "Consent to Operate" granted under the

environmental laws which mandate installation of brick manufacturing plant by every thermal power station in the State. CSPGCL has submitted that even before such condition, it is not only providing free ash to the brick plants but has allowed them land also. Further, the supply is already in excess of demand and as such installation of plant may not be much helpful. Though similar request for DSPM TPS and ABVTPS has succeeded yet for HTPS and KWTPP CECB has not taken a final view on the representation. If no relief is accorded, then there may be no option except to go for installation of plant and claim the same under Regulation 19.2 (iii) i.e Change in law. As such, it is prayed that Hon'ble Commission may kindly allow in principle approval for the scheme under Regulation 20. The expected cost of the scheme is about Rs 7.23 Cr (at 2024 level).

28. In addition to the above, Hon'ble Commission in the order dated 8th July 2025 also allowed the proposal for installation of Ash Water Recirculation System (AWRS) at Jhabu Ash Dyke. In the CIP petition no. 99 of 2024, CSPGCL submitted that with the mandate to run the plant up to 2030 and with the statutory mandate on water conservation, CSPGCL is installing the AWRS at Jhabu Ash Dyke of HTPS. Though a temporary arrangement has been made for urgent compliance however installation of permanent system is unavoidable. Further, it was also submitted that the same is being planned in such a manner that even after retirement of the plants, the same shall remain available for upcoming 2x660 MW plant at Korba West, thus, loading on the beneficiary will be on shared basis, leading to win-win situation for all stakeholders.

Dealing with the scheme, the Hon'ble Commission in Order dt 08.07.2025 in petition no 99 of 2024 - Page 13, decided:

28. As regards the plan of CSPGCL regarding AWRS in the Jhabua Ash Dyke of HTPS, the Commission also notes that CSPGCL plans to utilize the Ash dyke of Jhabu for upcoming 2x660 MW Thermal power Plant at Korba East. Since, the Scheme is going to be utilized even after the retirement of HTPS, the Commission provisionally approves the Schemes along with in-principle approval of AWRS subject to prudence check of detailed cost estimate of the scheme and CSPGCL's internal due diligence review of these Schemes. CSPGCL is also directed to propose appropriate cost recovery mechanism for this scheme at the time of the true up of Capitalisation of this Scheme, as the same would not be a Unit dedicated capex and recovery of cost of the system should be done according to the actual usage. (Emphasis supplied)

In the above context, CSPGCL humbly proposes following cost recovery mechanism for the AWRS scheme and such other similarly situated schemes

which may have benefits outlasting life of HTPS by way of servicing the new plant:

- a. As and when the asset is put to use, the same shall be capitalised in the books of 4X210 MW HTPS.
- b. For the purpose of tariff, the equity shall be considered as per actual subject to ceiling as per norm. RoE shall be claimed accordingly.
- c. The depreciation against such assets shall not be claimed on the basis of residual life of the plant rather shall be limited to the schedule rates as provided in the Regulations for that particular class of assets. However, such lower depreciation claim shall not be deemed to be waiver (express or constructive) and will not have any prejudice to the CSPGCL's entitlement for recovery of full depreciation (excluding salvage value) over the useful life of the particular asset. By such mechanism, the depreciation to be claimed is expected to come down substantially (Less than one-fourth) leading to lower tariff for the end beneficiary. The RoE and interest on debt shall be computed in accordance to the Regulations.
- d. As and when the new plant i.e. 2X660 MW achieves COD, the asset along with the accumulated depreciation shall be transferred to the new project and thereafter the balance cost recovery shall follow the trajectory applicable for the other plant/ machinery/ assets of the new project. During transfer of asset from HTPS to the new project, CSPGCL will not claim any revaluation.
- e. If the existing 4X210 MW HTPS plant is decommissioned prior to COD of the new plant, then, such assets shall be preserved at the same value and transferred to the new project upon its COD. Following the principles of equity and keeping in view the fair recovery of cost, no RoE, interest and depreciation shall be charged for the asset during such idle period. However, the same will not have any prejudice to the CSPGCL's entitlement for recovery of full cost of the asset.

At this stage CSPGCL humbly submits that though the AWRS scheme was originally planned for completion in FY 2025-26, however, for the reasons beyond control, the work may spill over to FY 2026-27. As AWRS system in a near-by area (Dindolbhata ash dyke) is in operation for number of years, earlier it was planned that the drawing design of AWRS pit and the pump house shall be adopted at this site also (with necessary changes regarding expected flow and head). However, while going in for start of civil work, it has come to the notice that the soil strata at the Jhabu ash dyke is different from the usually encountered soil strata. This has resulted in revisiting the foundation design for the proposed civil

work. With revision in design, if the civil work is continued with Dindolbhata type layout and pump house/ pit design, then it is apprehended that the cost of civil works earlier estimated may spiral up substantially. To strike a balance between the statutory requirement, technological challenges and interest of the end beneficiary, CSPGCL is reviewing the design of the system so that the capital cost may be rationalised to the best possible extent. Though the final cost can be ascertained only after finalisation of revised design, however for the purpose of instant petition cost of Rs 40 Cr as submitted previously is being retained. Leave is craved for submission of revised cost as and when the same concludes.

In view of the above challenging circumstances, the Hon'ble Commission is prayed to allow the spill over of the scheme to the next control period under Regulation 19.2 (iii).

29. Apart from the above there are some schemes such as Installation of 02 number weigh bridge of 100 Ton capacity, CC road at lagoon 1A -1B WBM surface over bund top of lagoon 2 etc. for which work order is expected to be issued soon and work may be completed in FY 25-26 or may partly spill over to FY 26-27. For the purpose of this petition, at this stage, completion has been considered in FY 25-26 and as such they are not separately listed as spill over schemes but are covered under the caveat emptor in generic para "Spill Over Schemes" under the chapter related to "Approach to the CIP Petition". The Hon'ble Commission is prayed to allow capitalisation against such schemes at the time of True-up of respective year.

New Schemes

30. Construction of Cement Concrete Road over starter dykes and ramps for ash transportation work from Jhabu Ash Dyke As submitted in the previous petitions and acknowledged in the orders, the MOEF& CC notification requires the thermal plants to achieved 100% ash utilisation. It implies huge quantity of ash transportation from the ash dykes. As conventionally roads to dyke are build for LCV movement only (for inspection purpose) and ash transportation, movement of bulkers / heavy trucks / dumpers is required, construction of CC roads for approach/ ramp /top (as the case may be) is unavoidable for compliance of law. In the instant petition, following proposals (Totalling Rs 2.72 Cr) for construction ramps at Jhabu Dyke are submitted for approval of the Commission.

- i. Construction of CC Road over starter dyke at 313.00 M and ramps of (RL 313.00 M to 318.00 M) Lagoon-1A of ash Dyke – Estimated cost of the scheme is Rs 1.32Cr and capitalisation is expected in FY 26-27.
- ii. Construction of CC Road over starter dyke at 308.00 M and ramps of (RL 308.00 M to 313.00 M) Lagoon-2 of Ash Dyke – Estimated cost of the scheme is Rs 1.40Cr and capitalisation is expected in FY 27-28.

Both are submitted as Compliance of Law under Regulation 19.2 (iii).

31. Height raising of ash dyke i.e deferred works of ash dyke : It is submitted that when a coal-based thermal power plant is conceptualised, from that point itself it is clear that consequent to the coal burning, ash will be generated and the same will have to be disposed off. Even with the best of the efforts for ash utilisation, disposal of ash to the ash dyke is practically indispensable. At the same time, it is well settled wisdom that unlike all other works construction of ash dyke to store ash for the full useful life of the plant at the time of COD or even up to the cut off date is not prudent. Therefore, the height raising of ash bunds is undertaken in phased manner till the thermal plant remains in operation. It is for this reason that such capitalisation is considered unique and the title is preceded by the phrase “Deferred Works”. The height raising has nothing to do with the LE & PI works and unlike most of the other capital nature works, is undertaken in phases right from the initial years of the plant to the fag end of the plant.

In the above background, Hon’ble Commission is prayed to approve 2nd stage Raising of Lagoon I B from R.L. 313.00 M to 318.00 M. at Ash Dyke Jhabu - Regulation 19.2 (v) read with Regulation 113 & 115. The expected cost is Rs. 4.57 Cr. and capitalisation is expected by FY 27-28.

32. Plantation in compliance of directions of MoEF&CC: - The MoEF&CC current guidelines prescribe that for environment clearance a thermal plant requires plantation (normal as well as Miya-Waki plantation) over 33% of the total land required for the project. Further, in case of brown-field projects MoEF&CC considers the total campus area instead of the specific land required for the extension/ new units. With the proposed 2X660 MW units at Korba West, the MoEF&CC has applied the aforesaid criteria on the whole campus, which has resulted to a very peculiar situation deserving a thorough consideration and prudent and rational approach so that the cost implication are spread to all the units and remain beneficial to the end-consumer also. The salient points are:-

- The total area of the complex including ash dykes is 702.854 Ha. As per MoEF&CC norms, minimum 33% of total project area i.e. 231.94 Ha is required to be green belt.
- As the said requirement was not applicable when the existing 4X210 MW HTPS was commissioned during 1983-86 and even at the time of EC for 1X500 MW KWTPP, the criterion was not that much stringent, hence the existing green belt is 126.96 Ha. Accordingly, balance green belt to be developed is about 104.98 Ha. Cost of green belt creation on the said area is estimated to be Rs.46.84 Cr.
- As the new project require only 68.06 Ha additional land (out of total 702.854 Ha i.e. about 9.69%) hence only the prorata cost, about Rs.4.54 Cr. (9.69% of 46.84) can be treated as exclusive for the project.
- It may please be appreciated that the rest of the cost i.e. Rs. 41.32 Cr. need to be booked to the existing complex. The composite cost may be shared between the old 4X210 MW HTPS & new 1X500 MW KWTPP in the ratio of 60:40 as has been allowed by CSERC for LDCC renovation. The same ratio was also allowed by the Hon'ble Commission earlier regarding the capitalisation of change in the LDCC plan due to the shifting of the coal bunker at SECL end.
- The HTPS share will be of about Rs. 24.79 Cr. Cost will be incurred in FY 26-27 and FY 27-28. As the work is being carried out in accordance to the directions by MOEF&CC which are akin to the law in-force, the expenditure is covered under the Regulations 19.2(iii) i.e Change in law/ Compliance of law”.
- The 40% share of KWTPP i.e Rs 16.53 Cr. is proposed to be booked to the CIP of 1X500 MW KWTPP. A prayer to that effect is included in relevant section.
- It is further submitted that inline with the detailed submission made in reference to the capital investment proposed for AWRS at Jhabu ash dyke, in the instant case too, the capex incurred may not be recovered in the balance life of HTPS. It is proposed that as the plantation will have to survive for time to come, at the time of retirement of HTPS, the asset shall be transferred to the new project along with the accumulated depreciation thereof. Meanwhile the ROE and Interest and Finance charges shall be recovered in accordance to the applicable regulations and the depreciation shall be recovered only at the schedule rate i.e. 3.34% (for Investment in land, third entry of Appendix I of the MYT Regulation 2025). It may be useful to submit that the AWRS implementation is also in compliance to the environmental laws drawing a clear parity with the instant scheme.

D. Capital Investment Plan for 2x250MW DSPM TPS Korba

33. 2X250 MW DSPM TPS, commissioned in year 2008. The plant has completed more than 15 years of service and is one of the best performing plant of CSPGCL.

Spill Over Schemes :

34. Second Raw Water Line for DSPM TPS from KTPS and installation of filters & laying of drinking water lines (Regulation 19.2 (x)) - In CIP 25-26 too, the scheme was approved with carry over beyond FY 25-26, thus, there is no deviation. The cost of the scheme is Rs. 12.66 Cr (same as in CIP FY 25-26). The scheme is expected to be capitalised partly in FY 25-26 and balance in FY 26-27.
35. Colony CC TV Network (Regulation 19.2 (vii))- In CIP FY 25-26, in-principle approval was granted for the scheme subject to implied capping of Rs 2 Cr. It may be pertinent to submit that Electricity (Removal of Difficulty) (Fourth) Order 2005 dated 08.06.2005 provides that the housing to the operating staff at generating station in the vicinity of the generating station is essential for operation and maintenance of generating station and forms an integral part of generating station. Tendering for the work is under progress. Capitalisation is expected in FY 26-27.
36. Numerical Protection Relays in 6.6 KV & 0.4 KV Auxiliaries (Regulation 19.3 ((c)) - In CIP FY 25-26, the scheme was expected to be fully capitalised during FY 25-26. Tender was floated but due to lack of participation, the bid has to be extended. Though there is still hope that commissioning & capitalisation may get completed in current FY however depending upon the time taken by bidders to respond, Commissioning may get delayed therefore the spill over has been indicated. Leave is craved to submit update during course of proceedings. At this instant, spill over to FY 26-27 is prayed with the same cost and under the same Regulation.
37. VFD drive for CEP (Regulation 19.2(iii)) - In CIP 25-26, scheme was approved as carry over beyond FY 25-26. The tender has opened and technical evaluation is in process. Order is expected in the current FY. However, looking to the delivery period and time required for interconnection and commissioning the phasing is now planned in FY 26-27 & FY 27-28, depending on the outage schedules. Cost of the scheme is Rs. 3.84 Cr. (Same as in CIP FY 25-26).
38. One number complete new BFP Cartridge (Regulation 19.2(x)) – In CIP 25-26, the scheme was approved at the cost of about Rs 2 Cr and capitalisation was considered beyond FY 25-26. Accordingly, no tariff impact was considered in the Tariff of FY 25-26. As such, the scheme has no deviation. LOI has been placed

and capitalisation is expected in FY 26-27 depending upon the outage availability. Spill over to FY 26-27 is prayed with the same cost and under the same Regulation.

39. One number Complete Impeller Assembly of FD Fan (Regulation 19.2(x)) - In CIP 25-26, scheme was approved and capitalisation was considered beyond FY 25-26 and accordingly no tariff impact was considered in the Tariff of FY 25-26. As such, the scheme has no deviation. LOI has been placed and capitalisation is expected in FY 26-27 depending upon the outage availability. The cost of the scheme is Rs. 1.90 Cr. (Same as in additional submission in CIP FY 25-26). Spill over to FY 26-27 is prayed with the same cost and under the same Regulation.
40. Procurement of Capital Spares of ESP (Unit-1) Regulation 19.2 (x) & 19.3 (a)- The order for material has been placed and work was planned to be carried out during AOH, however, due to system constraints recently AOH has been shifted to next financial year. Accordingly spill over is prayed with the same estimated cost of around Rs. 1.60 Cr. and the capitalisation is now expected in FY 26-27. Hon'ble Commission is prayed to approve the spill over.
41. High mast along with PCC Poles & AB Cables for Ash Dyke located at Godhi Ash Dam Regulation 19.2(iii) - In CIP 25-26, the scheme at the estimated cost of about Rs.1.16 Cr was submitted for installation of high masts along the complete periphery. However, after careful review, specification for the high mast was standardised and it has been decided that in the first phase only two number high masts along with PCC poles, LDB, bus bar terminal box (with cables) may be erected. Accordingly, cost has come down from Rs. 1.16 Cr. to about Rs. 0.46 Cr. Administrative approval has been granted and work completion and capitalisation is expected in FY 26-27. As the installation of high mast at ash dyke is required under the Guidelines for Annual Certification of Coal Ash Ponds and subjected to statutory annual certification, Hon'ble Commission is prayed to approve the same under Regulation 19.2(iii).
42. Replacement of Railway line (Regulation 19.2 (x) & 19.3 (b)) - In CIP FY 25-26, in-principle approval was granted for the scheme. It is pertinent to submit that the Railways has advised for replacement of the 52 kg track by 60 kg track for safe and smooth operation of the railway system. Railways has almost replaced all the tracks by 60 kg or higher rating rails. As the Indian railways is a government organ, its advice / directive qualifies as change in law. As such in addition to the Regulation 19.2(x), the scheme also qualifies under Regulation 19.2(iii). The estimated cost of the scheme is Rs. 33.18 Cr. The scheme is expected to complete

in part in FY 26-27 & FY 27-28 with capitalisation of Rs. 19.91 Cr. and Rs. 13.27 Cr. respectively. Hon'ble Commission is prayed to approve the same.

43. Construction of occupational health centre and workshop (Regulation 19.2(x)) – The scheme for construction of occupational health centre was approved in CIP FY 25-26 with an estimate of Rs. 0.65 Cr. Now, along with the same it is proposed to construct a workshop to facilitate relocation of machines from the decommissioned KTPS to the DSPM TPS premises. The relocation is required for safe and smooth working of the workshop and qualifies under Regulation 19.2(x). Leave is craved for further submissions, as may be required, during proceedings. At this juncture, the total scheme cost is expected to remain same and both the works are expected to be completed partly in FY 25-26 and partly in FY 26-27. Hon'ble Commission is prayed to approve the same.
44. 4th stage raising of Lagoon no. II from RL 319m to 322m of ash dyke at vill- Gorhi/Pandripani (Regulation 19.2(v)) – In CIP 25-26, the approved scheme cost was Rs. 3.15 Cr. which is revised to Rs. 2.57 Cr. LOI has been placed and capitalisation is expected partly in FY 25-26 and partly in FY 26-27.
45. Construction of RCC peripheral drains & chute drains in buttressing, Phase-I & Phase-II of Podimar ash dyke (Regulation 19.2(v)) – In CIP 25-26 too, scheme was approved as carry over beyond FY 25-26. Tendering is in progress. Cost of the scheme is Rs. 2.23 Cr. (Same as CIP FY 25-26). Capitalisation is expected in parts in FY 25-26 and FY 26-27. Hon'ble Commission is prayed to approve the same.
46. Construction of RCC drain at JPS side, tower line side, Pandripani side at Ash Dyke of village Gorhi / Pandripani (Regulation 19.2(v))- In CIP 25-26 too, scheme was approved as carry over beyond FY 25-26. Tendering is in progress Cost of the scheme is Rs. 3.74 Cr. (Same as CIP FY 25-26). Capitalisation is expected partly in FY 25-26 and partly in FY 26-27.
47. Strengthening of embankment of Lagoon No.-1 & 2 of Gorhi/ Pandripani ash dyke (Regulation 20)– The safety and stability of the ash dyke is very sensitive matter and need periodic review by the experts. Looking to the criticality, CSPGCL has contacted Dr. Patra of NIT Rourkela, a well known expert in the field, based on report the works required for strengthening of embankment of Lagoon No.-1 & 2 of Gorhi/ Pandripani ash dyke shall be carried out in accordance to the identified priorities. With continuous pursuance, detailed report is expected soon and work on the scheme is expected to start before the time line granted by the Hon'ble Commission. At this juncture, the cost and phasing is not certain, hence, Hon'ble

Commission is prayed to continue the in-principle approval under Regulation 20 as granted earlier.

48. Revamping, Upgradation & Augmentation of Fire Alarm, smoke & heat detection system at CHP, Oil Pump house, Admin building & Fire Station (Regulation 20) - As there have been technological changes in the fire alarm and protection system technologies, the concerned authorities are reviewing the whole arrangement and after due deliberation the scheme is expected to be finalised soon. As the need for Revamping, Upgradation & Augmentation of the system is well-appreciated and unlike the internal approval process which operates in a continuous seamless manner, the regulatory approval process at the best takes place once a year, therefore, it is prayed that in-principle approval under Regulation 20 may please be granted so that once the plan is finalised, the same may be executed at the earliest.
49. Apart from the above, there are some schemes such as installation of CCTV Surveillance System (Plant), Upgradation of PLC systems at AHP, Construction of 02 Nos. Weigh Bridge etc. for which work order is expected to be issued soon and work may be completed in FY 25-26 or may partly spill over to FY 26-27. For the purpose of this petition, at this stage, completion has been considered in FY 25-26 and as such they are not separately listed as spill over schemes. However, in case of slippage, on the grounds submitted in the case of HTPS, Hon'ble Commission is prayed to allow the cost at the time of true up of respective year.

New Schemes -

50. Replacement of 24 Volt Dual FCBC Battery Chargers of DCS Panels & PLC Panels of Unit No-01 & 02– The plant is equipped with “DCS” for Main Plant Control System and “PLC” for DM Plant Control System. The control panels of DCS and PLC are powered by 24 Volt “Dual Float Cum Boost Chargers (Dual FCBC)” of different capacities i.e. 550A, 460A, 35A and 145A respectively and running continuously since commissioning in 2007-08. The manufacturer have stopped Analog Type Battery Chargers manufacturing in 2009 and their spare part items have got obsolete. The healthiness of FCBC chargers is essential for smooth running of the plant. Failure of any of the battery chargers may lead to severe generation loss, therefore, it is proposed to replace the old version 24 V Analog Battery Chargers with new advance DSP (Digital Signal Processing) based “Dual FCBC Chargers” of different capacities (550A, 460A, 35A, 145A). The scheme cost is approximately Rs. 2 Cr and expected capitalisation in FY 26-27. Hon'ble Commission is prayed to approve the scheme under Regulation 19.3(a) & (c).

51. Replacement of Battery Bank of UPS/24 V of DCS of Unit No.1 - The battery banks and chargers for DCS have a crucial role in safe and smooth operation of the plant. Existing Battery Banks have rendered services of more than 18 years. The battery life is generally considered as 12 to 15 years. Accordingly, it is planned that existing battery banks will be replaced in FY 27-28. The estimated cost is about Rs 1.10 Cr. Hon'ble Commission is prayed to allow the same under Regulation 19.3(a).
52. Upgradation of Input - Output modules (I/O modules) of PLC of DM plant - The DM plant PLC system at DSPM comprises of HMI, CPU and IO modules. The operating system of HMI of DM plant was upgraded to Windows 11 in 2024, old computers were replaced with latest compatible computers & old CPUs were replaced with upgraded CPU SX201. Existing IO modules and IO racks have been utilized. To avoid and resolve intermittent "Communication Error" M/s FMPL, OEM recommended to upgrade the IO modules and accessories of DM plant. The scheme cost is Rs.0.80 Cr and is expected to capitalise in FY 26-27. Hon'ble Commission is prayed to approve the scheme under Regulation 19.3(a) & (c).
53. Replacement of Rectifier Transformer for KTPS Hydrogen Plant - There are two number rectifier transformer along with control panels at Hydrogen plant situated at KTPS Campus which caters requirement of DSPM TPS. Both the transformers run simultaneously for hydrogen generation. They were initially commissioned about 60-70 years back. One has got changed in 2015 and the other one is facing frequent tripping due to miscellaneous faults. As the equipment is too old, control cards are obsolete and even the OEM is not able to provide AMC service. Hon'ble Commission is prayed to allow replacement in FY 26-27 at the estimated cost of about Rs. 55 lakhs under the Regulation 19.3(a) & (c).
54. Numerical Protection Relays for Generator - Old design static type relays are installed for protection of 250 MW Generator, GT, UAT in GRP panels since the commissioning of DSPM TPS, Korba East. Being very old & outdated, spares of these relays are not available. The new generation Microprocessor based numerical relay allow isolation of faulty part within few milliseconds, time stamping, parameters and cause of tripping. Hon'ble Commission is prayed to allow the replacement at the estimated cost of about Rs. 2 Cr under Regulation 19.3(c). Phased capitalisation is expected in FY 26-27 and FY 27-28.
55. Capital Spares - Regulation 19.2 (x) specifies that capital spares of more than Rs 30 Lakh will qualify for additional capitalisation. Further, as forecasting of such spares may not be feasible and prudent, hence advance filing of the same has been exempted and the generating company is allowed to submit the details of such

works at the time of true-up. It also provides that at the time of tariff determination, a provisional consideration of capitalisation at the rate of Rs. One (1) lakh /MW/ year shall be made. Accordingly, Hon'ble Commission is prayed to allow additional capitalisation @ Rs. 5 Cr. per year for capital nature spares. Some of the works under consideration in next one/ two years are Capital spares of ESP Fields of Unit#2, Servomotor assembly of PA fan & its spares, Actuators for PA & FD fan blade pitch control of Unit#1&2, Hydraulic Power Pack for paddle feeder etc. Leave is craved to submit complete details at the time of true up.

56. CC road from Gorhi-Bhaisma road to Gorhi barrier at Gorhi/Pandripani ash dyke - The scheme is required to ensure uninterrupted ash transportation, particularly in summer and rainy season. As such, the schemes is covered under Regulation 19.2(iii) i.e compliance of law. The estimated cost is about Rs. 1.00 Cr. and will be carried out in FY 27-28.
57. 5th stage raising of Lagoon No.01 of Ash dyke from RL 322m to 325m at village Gorhi/Pandripani - The safe storage capacity for ash accumulation is essentially required to prevent overflow or spillage risks, to maintain compliance with environmental & statutory norms and for ensuring uninterrupted power generation during monsoon and other restricted periods. Hon'ble Commission is prayed to approve the additional capitalisation on account of the same under Regulation 19.2(v). Additional capitalisation of Rs 2.16 Cr. is expected in FY 26-27 and Rs. 2.16 Cr in FY 27-28.
58. The specific schemes related to DSPM are covered under Annexure -2. Hon'ble Commission is prayed to approve the same.

E. Capital Investment Plan for 1x500 MW KWTPP, Korba West

59. 1X500 MW KWTPP was commissioned in year 2013. By the end of current financial year, the plant will completed more than 50% of the useful life and is a steady performer.
60. The specific schemes related to 1X500 MW KWTPP are as submitted in Annexure - 3. Hon'ble Commission is prayed to approve the same.

Spill Over Schemes:

61. Colony CC TV Network (Regulation 19.2 (vii)) - The tender evaluation is in process. Work completion expected in FY 26-27. Cost 2 Cr. (same as in CIP FY 25-26).
62. HMI upgradation (Regulation 19.3 (a), (b) and (c)) –As the upgradation case is same for all the three 500 MW sets, the details related to the scheme as submitted in the section related to ABVTSPS are applicable for this unit also. Leave is craved to refer to the same. In the instant case capitalisation of the estimated cost of Rs 11 Cr is expected in FY 26-27.
63. New Generator Rotor (Regulation 19.2 (x) & (19.3 (d)) – Presently there is no standby Generator rotor between the three 500 MW units. In the previous order, looking to the criticality of such insurance spare and also looking to the very long gestation period, the Hon'ble Commission has granted in-principle approval for repairing/ replacement of the old rotor. In the last petition based on the advantage which a new rotor offers (reliability and guarantee), over old repaired rotor and also looking to the fact that repairing of old rotor might cost about more than two third of the cost of new rotor, procurement of new rotor has been preferred. Against the estimated cost of Rs. 50 Cr. as submitted in the previous petition, the final cost as per the PO is Rs. 44.50 Cr and with GST @ 18% the total cost is Rs. 52.51 Cr. Order has been placed on M/s BHEL. With 30 months delivery period capitalisation is expected in FY 28-29.
64. ICT 220/400 KV (Regulation 19.2 (x) & 19.3 (a) & (d))– As approved in previous order, LOI has been placed on M/s BHEL at Rs.11.42 Cr (excluding Oil cost & Erection & Commissioning charges). Total approved scheme cost is Rs.12.50 Cr (excluding PV). Delivery scheduled in August-26, hence capitalisation is expected in FY 26-27.

65. CEP-VFD (Regulation 19.2 (iii)) – LOI issued and tender for civil works is under process. The approved cost is about Rs. 6.5 Cr and Capitalisation is expected in FY 26-27.
66. Fire Tender (Regulation 19.2 (vii), 19.2(x) and 19.3(a)) - The order has been placed. Out of the two fire tenders approved at the cost of about Rs 3.20 Cr in the previous CIP order, delivery of one fire tender is in FY 25-26 and the other one is expected in FY 26-27.
67. LDCC Renovation (Regulation 19.2 (x), 19.3(a) & (d)) - As submitted in the original petition and approved in the order too, it is long gestation multi year scheme which involves renovation and life extension of the Long Distance Coal Conveyor system. In the previous order the total cost for LDCC renovation was approved at about Rs 110 Cr with cost sharing between HTPS and KWTPP in the ratio 60:40. Accordingly, the KWTPP share is about Rs. 44 Cr. Further as submitted in the section related to HTPS, in light of the CEA directions major works will be carried out in FY 26-27. Therefore, the earlier planned scheduling of 30%, 30% and 40% Capex/ capitalization in FY 25-26, FY 26-27, FY 27-28 has now been revised to 5%, 35% and 60%. The work is being undertaken in phased manner, with best efforts to minimize impact on coal supply.
68. Laying of 300mm dia main drinking water pipeline from W.T. plant to OHT at colony and grid renovation of water supply system of colony (Regulation 19.2 (x) & 19.3 (a & d))- The approved scheme cost is Rs. 4.35 Cr. Work for laying of main drinking water pipeline has been completed and capitalised in FY 24-25. Work related to grid renovation of water supply system of colony is expected to be capitalised partly in FY 25-26 and balance in FY 26-27.
69. Construction of CC road for ash transportation works at Dindolbhata ash dyke (Regulation 19.2 (iii)) – In the previous order dated 8th July 2025, the scheme was approved under the head In principle approval. The scheme is required to facilitate highly loaded dumpers/ bulkers (30-50 tonnes) for compliance of the MOEF&CC rules related to the ash utilisation. After the high-level review as submitted in the petition three patches of roads were selected for construction of CC roads amounting to total cost of Rs 2.66 Cr (Rs 0.98 Cr, Rs 0.97 Cr and Rs 0.71 Cr). Major part of the work completion and capitalization is expected in FY 25-26 with balance in FY 26-27.
70. 3rd stage raising the height of Pond 1B from RL 316 M to 319 M at Dindolbhata Ash Dyke (Regulation 19.2 (v)) – The approved scheme cost is Rs. 3.88 Cr. LOI

has been issued. Work for major portion will be completed and capitalised in FY 25-26 in the balance capitalization is expected in FY 26-27.

71. Installation of fly ash brick / block manufacturing unit (Regulation 20) – The scheme is submitted for In principle approval only. The need and justification for In principle approval has been dealt in detail in the section related to old 4X210 MW HTPS. As facts and circumstances in the two cases were same, hence leave is craved to refer back to the submissions made for HTPS, as and if the need arises.
72. Apart from the above there are some schemes such as installation & Commissioning of HPBP (BP1&2) proportional valve system, Upgradation of PLC systems, 01 no. weigh bridge of 100 Ton capacity etc. for which work order is expected to be issued soon and work may be completed in FY 25-26 or may partly spill over to FY 26-27. For the purpose of this petition, at this stage, completion has been considered in FY 25-26 and as such they are not separately listed as spill over schemes. However, in case of slippage, on the grounds submitted in the case of HTPS, Hon'ble Commission is prayed to allow the cost at the time of true up of respective year.

New Schemes

73. 166.7 MVA, 400/220/33 kV Interconnecting Transformer –There is set of single phase total four ICTs. Procurement of three ICTs for replacement of old transformers have been approved by the Hon'ble Commission in previous orders. This will be the fourth one. Initially the ICT was installed for old 4X210 MW plant however, as the ICT will remain in service even after de-commissioning of the old plant, there is no point in considering the replacement cost as capital cost of HTPS. In the previous orders, Commission has duly deliberated that such treatment will be detrimental to the end consumer as it will allow full capital cost recovery in the balance life of HTPS. Hence, the capitalisation has been allowed in KWTPP books while de-capitalisation takes place in HTPS books. Hon'ble Commission is prayed to adopt the settled methodology and allow the procurement of the fourth ICT in the same manner under Regulation 19.2 (x), 19.3 (a) & (d). The scheme cost is Rs. 12.70 Cr. and the capitalisation is expected in FY 27-28.
74. Replacement of 100 AH Switchyard Battery Bank - As the Switchyard protection has critical significance for the grid, it is subjected to Protection Audit by an external team constituted in accordance to WRPC guideline. In the last audit, team has suggested to replace both sets of the battery bank (being very old, 2011-make). The protection Committee recommendations are binding. The scheme cost

is Rs. 0.60 Cr. and the capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the proposal under Regulation 19.2 (iii) & 19.3 (a) & (b).

75. Replacement of 2 nos. Microprocessor based Transformer protection relay for station transformer feeder – As submitted above, the protection audit team also recommended for replacement of second differential relay M2 for station transformers 5A and 5B. The scheme cost is Rs. 0.13 Cr. and the capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the proposal under Regulation 19.2 (iii) & 19.3 (b).
76. Replacement of 3 nos. Battery banks 220V, 100AH (02 Sets)/ 225AH (one set) for CHP INT Control room - There are 02 Sets of battery bank installed at CHP-INT- for PLC & associated auxiliaries and one set is installed at CHP-INT- HT/LT switchgear operational purpose. These batteries are installed since 2012-13 and have completed more than 12 years of service. These cells are installed for providing back up to DC supply of CHP-INT-1X500MW for PLC & associated auxiliaries; in case of black out or failure of battery chargers/UPS. The service engineer of OEM Excide Industries Ltd during site visit has recommended to replace the battery sets to ensure reliability. The scheme cost is Rs. 0.92 Cr. and the capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the proposal under Regulation 19.3 (a).
77. Procurement of 02 Nos. new Bull Dozer, as replacement of old Bulldozers - The 4X210 MW HTPS and 1X500 MW KWTPP share a common coal yard. The coal yard area is about 85,832 m² and capacity is about 6 Lacs MT. Along with the purpose of coal stocking and recovery, dozers are also required for fire cutting, heap collection and compacting the coal stock (to prevent degradation and spontaneous fire). As such, availability of healthy dozers is essential for safe and smooth coal handling operations in the yard.

At the start of 2025-26, 4 No. BEML Make, Model, BD-155 Bulldozer (370 HP) were in operation with the life ranging from 13 years to 29 years and running hours ranging from about 18,000 hours to about 32,000 hours. The OEM BEML has certified that with the operation by skilled operators, standard operation and maintenance practices, preventive maintenance schedules, replacement of parts in periodic manner with genuine spares, the expected life (in hours) for the BD-155 model dozers operating in CHP is about 16,000 hours. Additionally, the 2024 Coal India Survey-off Norms for Heavy Earth Mover Machines (HEML) also specify that for Crawler dozers upto 500 HP, the normative ceiling is 9 years and 16,000 hours. Further, the Central Water Commission, GoI had also issued a Guidebook

regarding the higher charges and transfer value of such equipment. Appendix-A of the guidebook deals with life of equipment and it states the life of tractor crawlers (dozers) of above 300 HP as 12 years and 16,000 hours. It may be appreciated that on all counts all the dozers qualify for replacement under Regulation 19.3 (a). However, with a conservative approach in the instant petition, CSPGCL is limiting its prayer for procurement of only two dozers with the supplementary prayer for in-principle approval for procurement of one more dozer in case exigency arises.

At this instant, leave is humbly craved to submit that for one of the two dozers submitted in the instant petition, approval may kindly be granted on ex-post facto basis. It is respectfully submitted that originally (June 2025) the procurement of both dozers was planned for FY 2026-27 only, however due to continuous unusual rains in Korba area this year, coal supply from Kusmunda mines suffered heavily. To meet the deficit, reclamation of coal from reserve stock was the only option. As coal stock continued to reduce, dozer running hours has increased (from 450 hrs/ month during May-June to 640 hr/ month in September). As all the existing dozers are old dozers, breakdown risk increased, resulting into breakdown of transmission assembly of two dozers (S.no. 12607 and 12191) within a period of one month. This emergency situation resulted in threat to power supply chain (which in turns attract provisions of Regulation 7.6 & 7.7 of MYT Regulation 2021). Therefore, CSPGCL in the wider interest approached the PSU BEML for expediting the early supply of one dozer. BEML agreed and CSPGCL got the dozer on 29.09.2025.

Hon'ble Commission is prayed to allow procurement of 2 number dozers under Regulation 19.3 (a) out of which the capital investment and capitalisation for one dozer may kindly be allowed in FY 2025-26 by exercising the "Power to Relax", "Power to Remove Difficulty" and the inherent powers vested with the Hon'ble Commission. For the other dozer, the capitalisation is expected in FY 2027-28. The total scheme cost is about Rs. 6.66 Cr. at the rate of Rs. 3.33 Cr per dozer. In-principle approval may also please be granted for procurement of at-least one more dozer, as and when exigency arises during the control period.

78. Upgradation for PLC at Hydrogen Generation Plant - The installed PLC Controller (90-30 series) has become obsolete. OEM M/s Emerson has declared Genius Bus hardware (I/O block, Bus controllers, adapter) as end of life. Due to technology advancement and obsolescence of various components, OEM has discontinued the S90-30 Series product. Additionally, Operator Work Station (OWS), Engineering Workstation (EWS) and SCADA software currently running on Windows 7 OS,

which is no longer supported by Microsoft Corporation. Hence, Upgradation / replacement is proposed. The scheme cost is Rs. 0.80 Cr. and the capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the proposal under Regulation 19.3 (a) & (c).

79. Procurement of 04 Nos Unbalance Motors for vibrating feeders of CHP Int - Total 03 Nos. Vibrating Feeders (VF) are installed in Crusher house of CHP:INT for coal supply to each of 3 Nos. Secondary Crushers. Each Vibrating Feeder is installed with 1 set (2 Nos.) of Unbalance Motors (one on each side) and provided to generate vibration in VF tray. Existing old motors were installed at the time commissioning of plant in 1984, have rendered about 40 years of service and served their useful life. Multiple times rewinded motors can no more be relied. Phased replacement is required. It is proposed that two motors will be replace in FY 26-27 with two more in FY 27-28. Total estimated cost is about Rs 1.42 Cr. Further, as the CHP feeds coal to old 210 MW sets as well as the new 500 MW set and will remain in operation even after retirement of old HTPS units. Hence, in line with the principle adopted by the Hon'ble Commission for the ICTs the capitalisation is considered on the books of KWTPP. Hon'ble Commission is prayed to approve the proposal under Regulation 19.2 (x) & 19.3 (a).
80. Capital Spares – As submitted in the case of DSPM TPS for the capital spares provisional consideration at the rate of Rs. One (1) lakh /MW/ year has been made. Accordingly, Hon'ble Commission is prayed to allow additional capitalisation @ Rs. 5 Cr. per year for capital nature spares. Some of the works under consideration in next one/ two years are procurement of 01 no. Rotor Shaft Assembly of Ring Granulator Model TK-20 54B, Procurement of 02 Nos 37 KW Eddy Current Control Dynodrive for paddle feeder, Procurement of 01 no. 250 KVA Transformer for Stacker Reclaimer, Recirculation valve (Masoneilan Valve) of TDBFP and MDBFP, Complete rotor assembly for drive turbine of TDBFP etc. Leave is craved to submit complete details at the time of respective true up.
81. Providing RCC boundary wall for safety of company's land from Jailgaon chowk gate to old SP type quarters to road towards CIPET – The HTPS colony is divided into four zones (AB, CD, EF and FG), the premises of the colony are open at many places. To ensure the safety and security of the colony, it is important to build a boundary wall around the colony premises. It will also prevent encroachment and boundary disputes in future. It is proposed to build RCC boundary wall around the colony from Jailgaon Chowk to old SP type quarters to road towards CIPET. The scheme cost is Rs. 1.50 Cr. and the scheme is expected to capitalise partly in FY

26-27 and partly in FY 27-28. Hon'ble Commission is prayed to approve the proposal under Regulation 19.2 (x).

82. Construction of Boundary wall from Railway gate to Jali no. 02 along Darri road side with rerouting of existing nallah- The original boundary wall has become too old and got dismantled at many places. Erection of new boundary wall is essential for the safety and security of the coal handling plant of 1X500 MW KWTPP and also to avoid exposure to roadside. Estimated scheme cost is Rs. 1.50 Cr. The capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the proposal under Regulation 19.2 (vii) and (x).
83. Construction of CC road for ash transportation works at different locations at ash dyke Dindolbhata – One such identified scheme is from Murit Dai ramp to stilling pond 2 at the cost of Rs 0.83 Cr and expected to capitalise in FY26-27. As the schemes are required for ash transportation/ utilisation they are covered under Regulation 19.2 (iii). Hon'ble Commission is prayed to approve the proposals.
84. 3rd Stage Raising the height of Pond – 1A from RL 316.00 M to 319.00 M of Ash Dyke Dindolbhata - The scheme is proposed under Regulation 19.2 (v) i.e deferred work related to ash pond/ dyke at the cost of Rs. 3.33 Cr. The scheme is expected to capitalize in FY 26-27. Hon'ble Commission is prayed to approve the proposals.
85. Buttressing of Pond- 2 of ash dyke Dindolbhata– To ensure dam safety buttressing of the ash pond is critical. It is pertaining to submit that in the recent past the ash pond has suffered some damages. Though the same were arrested to prevent loss of life and property, however strengthening of the ash pond by way of buttressing is felt essential. CSPGCL has already engaged Dr. Patra from NIT Rourkela, known expert in the field for expert opinion. Restoration and strengthening work shall be soon under taken in accordance to the expert report. Hon'ble Commission is prayed to grant in-principle approval under Regulation 20 for the same.
86. Plantation in compliance of directions of MoEF & CC: - As submitted in the section related to HTPS, plantation is required to be undertaken in compliance of direction of MoEF &CC. To avoid repetition leave is craved to refer back to the submissions in the pre paras. Hon'ble Commission is prayed to allow 40% share of KWTPP i.e Rs 16.53 Cr. to be booked to the CIP of 1X500 MW KWTPP under Regulation 19.2 (iii).
87. Capital schemes details for the plant are submitted in the Annexure -3.

F. Capital Investment Plan for 2x500 MW ABVTPS

88. 2X500 MW ABVTPS was commissioned in year 2016. The plant has shown a remarkable turnaround in FY 23-24.

Spill Over Schemes

89. Flexible operation (Regulation 20) - Marwa Unit 2 falls in the CEA phasing plan -1st phase followed by Unit 1 in phase 2, however as per the logic adopted in the plan, it should be in the 2nd phase. Nevertheless, during the control period both the units are expected to achieve 40% TMM (Technical Minimum). At present there are no precedents where the conversion of an old plant (design / specifications prior to issue of CEA's 2010 guidelines) has achieved settled O&M practices. As such, the capital investment plan for achievement of flexible operation particularly with 40% TMM and ramp-up/ ramp-down in accordance to the CEA Regulation depends on a unit/ plant specific studies and at present is in the stage of evolution. At the same time, CSPGCL crave leave to submit that as per the budgetary offer received from the OEM M/s BHEL the capital investment required may be in excess of about Rs. 21 Cr/unit. It is also pertinent to submit that this cost does not involve the changes which may have to be incorporated on the boiler side and the consequential effect on capex due to thermal stresses. Therefore, at this stage, looking to the national scenario and industry trend, neither the complete details are available nor the time frame can be confirmed because all major suppliers capacities are already tied up for new projects. Hence, though principally work is to be done but it is not possible to predict the cost or time at this stage. Thus, it is a fit and perfect case for continuation of "in-principle" approval under Regulation 20. CSPGCL prays the Commission to approve the same.
90. HMI upgradation (Regulation 19.3 (a), (b) and (c)) - In the CIP Order dt 15.03.2024, tentative cost was estimated as Rs. 10 Cr / unit. However, later on looking to the cyber threat, as per the updated protocol and industry practice, cyber suit has also been integrated in HMI package. With persuasive negotiation, composite package cost, which was otherwise expected to be much higher, is now about Rs 33 Cr. (Rs 11 Cr per unit for 3 units of 500 MW each). LOI has been issued to M/s BHEL. Unit 1 work will be carried out during overhauling in FY 25-26 and Unit 2 will be in FY 26-27. Capitalisation is expected accordingly.
91. Upgradation of 400/220 KV Switchyard Substation Automation System (SAS) with HMI and its application software (Regulation 19.2 (iii) & (vii) and Regulation 19.3 (a) & (c)) – NIT issued, tendering process is in progress. Work

completion and capitalisation is expected in FY 26-27 depending upon outage availability. Cost Rs.4.70 Cr. (Same as in CIP FY 25-26).

92. VFD drive for CEP (Regulation 19.2 (iii) and (x)) - Tendering is in progress. Unit 2 work is expected during AOH in FY 26-27 followed by Unit 1 work completion in AOH during FY 27-28. Scheme cost Rs. 13.10 Cr. (Same as in CIP FY 25-26).
93. Upgradation of service road from silo gate of Powerhouse to Auraikala ash dyke (Regulation 19.2 (iii)) - LOI issued on 04.09.2025. Approved cost was Rs. 4.35 Cr. After tendering cost revised to Rs. 3.23 Cr. Ordering in FY 25-26 with part capitalisation expected in FY 25-26 and part in FY 26-27.
94. 1st stage raising of HCSD Lagoon-II (A) from RL-279 to 284 of Auraikala ash dyke (Regulation 19.2(v)) – In CIP 25-26 the approved cost was Rs. 6.77 Cr. After tendering, the cost revised to Rs. 5.82 Cr. Ordering in FY 25-26 with part capitalisation expected in FY 25-26 and part in FY 26-27.
95. Construction of RCC Pedestals, additional chute drains at outer periphery of the ash dyke & renovation of drainage system of Auraikala ash dyke (Regulation 19.2 (iii) & (v)) – The work at estimated cost of Rs. 0.96 Cr. is in tendering stage. Ordering in FY 25-26 with part capitalisation in FY 25-26 & part in FY 26-27.
96. Construction of starter dyke at village Auraikala (Regulation 19.2 (v)) – Tender has been floated. The scheme cost is Rs. 1.60 Cr. and is expected to be capitalised in FY 26-27. Ordering of the same in FY 25-26 with part capitalisation expected in FY 25-26 and part in FY 26-27.
97. Construction of CC road over TBL of Bottom Ash Lagoon and on various approaches along with truck lay-by at Auraikala ash dyke (Regulation 19.2(v)) – In CIP 25-26, the approved cost was Rs. 2.8 Cr. LOI has been issued for Rs. 2.39 Cr. Part capitalisation expected in FY 25-26 and part in FY 26-27.
98. Apart from the above there are some schemes such as 3 nos. Online DC Earth Fault Locator system (switchyard + BTG U#1&2), colony CCTV, construction of weigh bridge etc. for which work order is expected to be issued soon and work may be completed in FY 25-26 or may partly spill over to FY 26-27. For the purpose of this petition, at this stage, completion has been considered in FY 25-26 and as such they are not separately listed as spill over schemes. However, in case of slippage, on the grounds submitted in the case of HTPS, Hon'ble Commission is prayed to allow the cost at the time of true up of respective year.

New Schemes

99. Replacement of station battery bank capacity 220V 2250 AH for Unit#1– The station batteries are critical for safe and smooth operation of the plant. At ABVTPS, there are four sets of such batteries (two sets for each unit). These batteries have a generic life between 12 to 15 years. The batteries at ABVTPS were commissioned in or around 2012 and as such are nearing fag end of life. Some of the batteries of one set of Unit no. 1 are already encountering problems and as such the bank need to be replaced. Healthy cells, as may be available, may be used in other sets against faulty cells. Accordingly, replacement of one set at the cost of Rs.3.70 Cr. under Regulation 19.3(a) is prayed. Capitalisation is expected in FY 27-28. Hon’ble Commission is also prayed for in-principle approval under Regulation 20 for replacement of additional battery bank sets, as and when the need arises during the control period.
100. Replacement of 220V, 300 AH batteries for AHP– To meet the emergency requirement (including DC supply to control systems) of ash handling plant, separate battery bank has been provided. However, this battery bank has no standby arrangement. For the reasons as stated above, the battery bank need replacement. It is also submitted that currently installed batteries are Exide make YKP-25 model manufactured in 2011 and as such are at the fag end. OEM has also recommended for replacement. Estimated scheme cost is Rs. 0.50 cr. with capitalisation in FY 26-27. Approval is prayed under Regulation 19.3 (a).
101. Upgradation of GE-Emerson Make PLC System of various locations of BOP-C&I–GE make PLC systems are installed at BOP area. As some of the old configuration controller have been discontinued, they need upgradation/ replacement. Such systems are PLC systems / HMI quick panels in Fire hydrant System, Intake Pump house and FOPH. The estimated scheme cost is Rs. 1.30 Cr. and the capitalisation is expected in FY 26-27. Approval is prayed under Regulation 19.3(c).
102. Numerical distance Protection Relay for line feeders of 400 KV and 200 KV switchyard – The plant has total 10 no. line feeder bays are commissioned in 400 KV and 220 KV switchyard. Third party protection audit as per WRPC directive was carried out for 400/220 KV switchyard. As at present the Main I and Main II protections both are of same make and CEA recommendation along with WRPC/audit directive require both the protections of different makes or employ different fault protection algorithm, hence it is proposed to replace Main 2 numerical protection relays for line feeders of 400 KV and 220 KV switchyard.

The scheme cost is Rs. 0.61 Cr. and the capitalisation is expected in FY 26-27. Approval is prayed under Regulation 19.2 (iii) read with Regulation 19.3(b).

103. Replacement of Thermo-vision Camera – Thermal imaging camera measures temperature of hot spots in 400/220 KV switchyard, power transformers, LT/HT switchgear etc. Regular monitoring of temperature rise of any connector/equipment is necessary and should be attended at the earliest. Available Thermo vision camera Model TP-85 has become faulty and outdated. It is also not able to communicate with the laptop. Hence, procurement of Thermo-vision camera is proposed. The scheme cost is Rs. 0.46 Cr. and the capitalisation will be done in FY 26-27. Approval is prayed under Regulation 19.3(c).
104. Refurbishment of HP Module - During COH of Unit no. 2, certain abnormalities were detected in the HP Module. The experts opined that boxing up the Unit with the same HP Module may add some risk associated with the plant. It was advised that spare HP module may be used and the taken out module may be sent to BHEL Works for inspection, assessment and exploration of possibility of repair. Accordingly, the module has been sent to BHEL works and it was ascertained that by taking up the refurbishment work the module may be restored to near new condition. It is also pertinent to submit that as the refurbishment increases the life of the equipment, it qualifies for additional capitalisation. In number of previous orders, Hon'ble Commission has allowed such capitalisation under Regulation 19.2(x). The cost of refurbishment is estimated to be about Rs. 17 Cr. However, it is submitted that capitalisation of the refurbished rotor will depend on its being put to use which in turn will depend upon the discovery of any defect in the HP module in service in any of the three 500 MW units being run by CSPGCL. Thus, the time frame remains uncertain. Accordingly, the cost and justification are submitted under Regulation 19.2(x) & 19.3(d) and for the limited purpose of uncertainty regarding year of capitalisation, the proposal attracts provision of Regulation 20. Hon'ble Commission is prayed for in-principle approval with leave for claiming capitalisation at the time of true-up as and when the module is put to use.
105. Air Heater basket of Unit no.2 -Apart from the above, CSPGCL humbly prays for ex-post facto approval of one capital scheme related to ABVTPS. During FY 2024-25 capital overhaul of Unit no. 2 was undertaken. During the overhaul it was affirmed that air heater basket was not in good shape and continuation of the same basket till the next COH (replacement being time consuming, is done in COH only) may not be in the interest of any of the stakeholder. Therefore, based on the technical criteria, decision for replacement of air heater basket was affirmed. It is

pertinent to submit that air heater basket has a limited life in comparison to the plant and also that its timely replacement is crucial for maintaining the thermal efficiency of the plant. It is further submitted that though it is a settled proposition that the replacement of the high value air heater basket after completion of certain life qualifies for additional capitalisation (may please refer previous order), yet in the rush of things during the COH, the expenditure was inadvertently booked to R&M account. At the time of preparation of the instant true-up for FY 2024-25, the inadvertent error has been noted. In line with the well settled maxim quoted by none other than the Supreme Court of India and relied by Hon'ble APTEL that an error need not to be perpetuated, CSPGCL humbly crave leave to rectify the error. Accordingly, in the true-up petition the expense has been considered as capital expense instead of R&M expense thus the total value of expenses in the financial accounts and the regulatory accounts are same but the error in selection of head of expense has been rectified. It is also pertinent to submit that previously Hon'ble Commission has appreciated such rectifications and allowed the just and prudent transfer from R&M to capital or even vice-a-versa.

As the scheme qualifies under Regulation 19.2 (x) read with Regulation 19.3 (a) & (d) Hon'ble Commission is prayed to kindly exercise the "Power to Relax", "Power to Remove Difficulty" and inherent powers and grant ex-post facto approval for additional capitalisation incurred during FY 2024-25 on the replacement of one half of the air heater basket of Unit no. 2 at the cost of about Rs. 6.13 Cr.

106. Capital Spares – As submitted in the case of DSPM TPS, Regulation 19.2 (x) specifies that capital spares of more than Rs 30 Lakh will qualify for additional capitalisation. Accordingly, Hon'ble Commission is prayed to allow additional capitalisation @ Rs. 10 Cr. per year for capital nature spares. Some of the works under consideration in next one/ two years are related to the existing Honeywell CCTV system in plant premises, valves of HPBP system, Upgradation of GE-Emerson PLC system of Paddle feeders, Stacker / Reclaimer and Main PLC system at Control room (Both software & hardware for Paddle feeder and only hardware for Main Control room), Spares for modification of Recirculation valves (Masoneilan valve) of TDBFP, spare air drier for conveying air compressor for AHP etc. Leave is craved to submit complete details at the time of true up of respective years.
107. NDCT & Ash Silo Work – Some time back, some cracks in the Raker columns of Natural Draft Cooling Tower (NDCT) & ash silo columns of both the units have been noticed. The premium institute in India, CSIR-SERC Chennai have been

requested for examination of cracks through test and to suggest remedial measures. However, as all experts had prior engagement, National Council for Cement and Building Materials, (NCCBM), Ballabgarh, under administrative control of Ministry of Commerce & Industry, Government of India, has been approached. A preliminary site visit for preparation of suitable scheme for Condition Assessment of both the NDCTs is under finalisation. Once the plan is finalised, the damage control work will be immediately initiated. In view of the above, in-principle approval under Regulation 20 is prayed for the above work.

108. First stage raising of Bottom Ash Lagoon from RL 284.5 to RL 289.5 of Auraikala ash dyke – The estimated scheme cost is Rs. 11.71 Cr. and the capitalisation is expected in FY 26-27. Approval is prayed under Regulation 19.2(v).
109. High mast along with PCC Poles & AB Cables for Ash Dyke located at Ash Dam- As submitted in section related to DSPM, the installation of high mast at ash dyke is required under the Guidelines for Annual Certification of Coal Ash Ponds and subjected to statutory annual certification, hence, procurement of high mast is necessary. The estimated cost of the scheme is Rs. 0.42 Cr. Looking to the criticality of ash transportation, the work has been awarded high priority and work completion and capitalisation is expected in FY 26-27. Hon'ble Commission is prayed to approve the same under Regulation 19.2(iii).
110. Capital schemes details for the plant are submitted in the Annexure -4.

G. Capital Investment Plan for 3x40 MW HEP Bango

111. The sole large hydro power plant of CSPGCL about 30-year-old. It provides cheapest power to the grid at the tariff of less than Rs 1 per unit.
112. For this plant only seven schemes have been included in the instant petition, out of which five are 'spill over' scheme and the balance two are new schemes.

Spill Over Schemes

113. Refurbishment of old runner of Main Turbine (Regulation 20) - It continues from the previous approval. HEP Bango has three units of 40 MW each. During FY 93-94 to FY 95-96, every year one unit was commissioned. Thus all units have served 30 years service. During COH of unit no 3, heavy pitting and erosion in runner blades was observed. Repair of Hydro Turbine runner is possible only at OEM (BHEL) works, which require large span of time. As no spare rotor is available, to avoid, long outages procurement of a spare rotor was essential. The same was submitted in the petition no 10 of 2021 and appreciating the need, Hon'ble Commission vide order dated 31.07.2021 approved procurement of spare runner. CSPGCL has already procured the same. It is further submitted that in the recent COH of unit 2, the runner was not found damaged to the same extent as was observed in U#3, therefore exercising prudence, CSPGCL has not replaced the same. Next COH at Bango HEP will be of Unit 3, which is due in FY 26-27. As Unit 3 rotors is already suffering from wear and tear, in the COH the same will be replaced by new one and taken out rotor will be sent to BHEL works for repair. Thereafter in FY 27-28, COH of unit 1 shall be taken up in which the refurbished rotor may have to be used. The taken out rotor in turn may be refurbished in FY 27-28, for which the capex may take place in FY 27-28 & 28-29 while capitalisation may be in FY 28-29. As the need and cost of refurbishment will depend upon the condition of the rotor taken out during COH, at this point of time, year & cost of such refurbishment cannot be estimated precisely. Though the justification qualifies under Regulation 19.2 (x) & 19.3 (a), however, due to cost and time uncertainty approval is prayed under Regulation 20.
114. Complete replacement of existing Generator CO2 fire protection system (CO2 flooding system) new microprocessor based CO2/clean gas based fire protection system (Regulation 19.2 (vii) and Regulation 19.3 (c)) – The original proposal and the estimated cost, which was planned for execution in 2024-25, was initially limited. Following extensive consultation with other Hydro Electric Projects and

a comprehensive review of the best practices in generator safety, the scope of the work has widened significantly to incorporate complete replacement of the existing system with a new microprocessor-based CO₂/ clean gas fire protection system. This better configured system is necessary to provide superior safety and security to the generator, addressing the obsolescence of spare parts of the current old system. The revised cost estimate scheme is Rs. 1.10 Cr. and the capitalisation is expected in FY 26-27. Approval is prayed under Regulation 19.2 (vii) read with Reg. 19.3(c).

115. Retrofitting / renovation of oil lubricant based turbine guide bearing with water lubricated TGB system of one unit (Regulation 19.2 (iii), (viii) and Regulation 19.3 (b)) – For the work to be undertaken as per the CEA recommendation, the approved scheme cost is Rs. 4 Cr. and the capitalisation is expected in FY 26-27. It is further submitted that after installation of water lubricated turbine guide bearing in Unit no. 3 during COH in FY 26-27, based on the feedback action will be initiated for replacement of TGB in other two units. In the instant petition, prayer is limited for one unit only and a leave is craved for inclusion of the prayer for other two units in the additional CIP petition/s to be filed in the future years.
116. Fire Tender - Hon'ble Commission has approved the procurement in the order dated 8th July 2025. LOI has been placed at the rate of about Rs. 1.60 Cr per fire tender. As the delivery period for fire tender is 10 months, the actual capex and capitalisation is expected in FY 26-27, hence included in the instant CIP. Approval is prayed under Regulation 19.2(vii), (x) & 19.3 (a).
117. Renovation of DCS SCADA based control system – In CIP 25-26, in-principle approval was granted for the scheme. The estimated cost is around Rs.36.50 Cr. and capex will take place in FY 27-28 and FY 28-29. Correspondence is being done with M/s BHEL, Jabalpur, EDN Bengaluru and BHEL, Bhopal to finalise the technical requirements and related terms and conditions. Price and commercial offer awaited. It is also being envisaged that consequent to implementation of the scheme, the HEP Bango may be planned for “Black Start” from remote control. Looking to the large scale RE integration and the challenges in grid management, such conceptualisation may be useful in future. As the cost may vary substantially during finalisation of scope and negotiation, therefore, approval is prayed under Regulation 20.

New Schemes

118. Line Feeder Relay system with Real Time Online Remote monitoring system – In HBHPS, 4 nos. 132 KV line feeders exists and in every feeder one set of numerical

relays and electromagnetic backup protection relays are installed. The response of electromagnetic relay is slow as compared to numerical relays, as well as there are number of hardware components installed in electromagnetic relays, due to which there is always a chance of failure or malfunctioning of protection which may cause heavy damage to the equipment. In electromagnetic relays, there is no provision of record storage during faults, while in numerical relays, disturbance and event recorders are inbuilt which makes fault tracing easier, reducing system downtime. Looking to the above, it is essential to replace all electromagnetic relays along with auxiliary relays of all 132 KV feeders at HBHPS, Bango. The estimated scheme cost is Rs. 0.73 Cr. and the expected capitalisation is in FY 27-28. Approval is prayed under Regulation 19.3 (c).

119. Replacement of 220V, 600 AH Station Battery Bank - Due to ageing, the battery parameters are deteriorating. Therefore, replacement of 2nd set station battery bank is necessary. The scheme cost is Rs. 0.75 Cr. and the capitalisation is expected in FY 26-27. Approval is prayed under Regulation 19.3 (a).
120. Capital schemes details for the plant are submitted in the Annexure -5.

H. Capital Investment Plan for GP-III

121. As acknowledged in the previous orders, after enactment of the Coal Mine (Special Provisions) Act, 2015, the GP-III coal block was classified under Schedule I of the said Act. In terms of the provisions of Section 5 of the said Act, the GP-III coal block was allocated to CSPGCL for utilization of coal in end-use plant of ABVTTP. The matter of Capital cost of GP III mine has already been dealt in detail in the MYT order dated 13.04.2022 (petition no 01/2022) with revision in the subsequent CIP orders. Approved Capital cost as on this date stands at Rs 1122.08 Cr (after due adjustments). Leave is craved for referring to the previous deliberations/ orders, if the need arises.
122. Against the same, capitalisation incurred and being considered for the purpose of determination of ARR and the input cost of coal at mine end, up to 31.03.2025 is about Rs. 849.86 Cr. Further, the additional capitalisation during FY 25-26 expected against the same heads is about Rs. 5.38 Cr.
123. It is clarified the capitalisation on railway line has been considered in accordance to the expected time of system being put to use. However, the railways being government entity and also in view of the multiple statutory and other constraints, uncontrollable for CSPGCL the expected capitalisation may vary. It is further clarified that the cost of drilling boreholes on additional land, estimated to Rs 8.20 Cr only has not been factored as the same shall be accounted for when the corresponding land is put to use for the mining purpose. Leave is craved for submissions of updates during the proceedings.
124. Capital scheme details are submitted in the Annexure -6.

I. Capital Investment Plan at Head Office

125. Head Office Building at Naya Raipur: Regarding the scheme following salient points are submitted :

- a. Govt. of Chhattisgarh, General Administration Department issued an order on date 04-04-2014 that new construction in the Head offices of Nigam/ Mandal/ Board/ Pradhikaran/ Ayog/ should not be done and no new state level offices shall be constructed in Old Raipur. In continuation to above, Energy Department Govt. of Chhattisgarh vide letter date 21-04-2014 also directed all the Power Companies on same lines.
- b. It is pertinent to mention that even the Transfer Scheme issued by the GoCG under section 131 (part XIII) of the Act, had a vision of an Administrative office block at newly developing Capital city under then Capital Area Department Authority (CADA) presently known as Nava Raipur Atal Nagar Vikas Pradhikaran (NRANVP). (Ref - SN. (3), Part (2), Schedule (VI) page (87) of Chhattisgarh State Electricity Board Transfer Scheme Rules, 2010).
- c. Chhattisgarh State Power Companies in the year 2022 decided to take up the project of construction of common Head Office Complex at Nava Raipur Atal Nagar. For this, Hon'ble Chairman, CSPC after discussion with M.D. (CSPTCL), M.D. (CSPGCL) and M.D. (CSPDCL), took decision for "Construction of a Common Building for all Companies at Nava Raipur Atal Nagar and fixed its Sharing Ratio for purchase of new plot". An in-principle approval for Authorization of C.E. (Civil) CSPGCL as Nodal Agency for this project was also granted. It is relevant to submit that against earlier JV project of IFFCO Chhattisgarh Power Ltd. (ICPL), CSPGCL had ownership of some land at Nava Raipur Atal Nagar. Additional land was acquired to meet the requirement for common HO building.
- d. Meanwhile, the State Government issued amendment to the Transfer Scheme Rules vide Gazette notification dated 17.06.2022. A new Rule 15 was inserted, for constitution of an Empowered Committee. In exercise of powers conferred under Rule 15(5) of the Transfer Scheme Rules, (as amended), the Empowered Committee entrusted CSPGCL (instead of E.E. (Civil), HQ, Raipur, as envisaged in 2010 Rules) to take up the work of creation of asset of Common Head Office Complex of Chhattisgarh State Power Companies at Nava Raipur Atal Nagar. The authorisation included construction and its further maintenance

- with sharing of expenditure in a predefined fixed sharing ratio and as per mutually agreed terms and conditions as mentioned in Tripartite Agreement.
- e. Resolution for construction of common Head Office building of Chhattisgarh State Power Companies with grant of Administrative approvals for a total estimated cost of Rs.217.50 Cr was passed by CSPGCL in its 135th meeting of the Board of Directors dtd. 29th Nov' 2024, CSPDCL by Circulation 01/2025 in its Board of Directors dtd. 12th March 2025 and CSPTCL at its 118th meeting of the Board of Directors dtd. 27th June 2025. The CSPDCL, CSPGCL & CSPTCL also resolved to share the ownership and expenditure of project in a sharing ratio of 31.78%: 35.67%: 32.55% respectively. All the Stakeholder companies resolved to appoint CSPGCL as nodal agency and approved Tripartite agreement.
 - f. Need: The existing Vidyut Seva Bhawan at Dangania Campus was built in the year 2007 and has a built-up area of about 6425 sqm. The office building is highly congested and there is space constraint. The same is the case with the old Secretariat building, SLDC building and number of offices being run in the sheds. With the growth in requirement, some of the offices are running in the modified staff quarters. Constraint is being faced in storing office records and vehicle parking too. As the creation of new permanent infrastructure has become a must, therefore, in light of the GoCG directive dated 04.04.2014, construction of the same at Nava Raipur Atal Nagar has been preferred.
 - g. Status: Land has been acquired in the Sector-24 (Plot No. A-47). M/s Mandviwala Qutub & Associates, Mumbai (M.H.) has been appointed as the Architect through competitive bidding process @1.44% of estimated cost or the actual cost of the project whichever is less i.e. Rs. 2,59,80,000/-. For the construction contract LOA has been placed to the L-I bidder M/s Shreejirupa Project Ltd., Rajkot, for work value of Rs. 198,59,83,777/- including GST. The site has been handed over to Contractor on dt. 08.08.2025 with completion period of 30 months. Further, M/s David Adamson India Pvt. Ltd., Mumbai (M.H.) has been appointed as Project Management Consultant at work value of Rs. 4,33,40,000/- including GST. Bhumi puja & Shilanyas has been done by Hon'ble Chief Minister, Govt. of C.G. on 3rd September 2025.
 - h. Use of existing property - It has been decided that CSPTCL is authorized to utilize the existing asset of Dangania Campus & premises. As per information obtained from CSPTCL authorities, after shifting of the State level head offices

of Chhattisgarh State Power Companies to the proposed HO building at Nava Raipur, remaining other offices like State Load Dispatch Centre and other common utilities such as Staff Quarter, Hospital, Welfare Centre, Sports Complex, Officer's Club, Ladies Club etc. will be continued to be used in the existing premises. The vacant portion will be utilised for shifting of various field offices of CS Power Companies presently working in other parts of Raipur. It has also been stated that in addition to the above, the old buildings/sheds/ premises may also be used to cater future requirements, expansion and development of infrastructure for field offices of all the companies and it shall be planned and decided by the competent authority in due course of time as per actual future requirements.

- i. The proposed building is expected to be fully put to use in FY 28-29. Accordingly capitalisation under BAU scenario has been considered in FY 28-29. The project cost is expected to be approximately Rs. 224 Cr. (excluding statutory charges, PV, contingencies, IDC, IEDC and other infra charges). Financing is considered at the normative basis of 70:30 D:E ratio. For the purpose of CIP and ARR, provisionally as a conservative estimate total project cost of about Rs 250 Cr is being considered.
- j. It is prayed that Hon'ble Commission may please allow the CSPGCL share in the total estimated cost of about Rs 250 Cr will be about Rs.89.18 Cr (35.67%) with capitalisation in FY 28-29. As the new HO building required to accommodate the advance needs and is being built at Nava Raipur in compliance of referred directive of GoCG, the same qualifies under Regulation 19.2 (iii) read with 19.2 (x).

126. Replacement of Computer Systems and Server - After end of Support life for the Operating System "Windows 10" in October-2025, Microsoft is no longer providing security updates for "Windows 10". As such gradually, OS will have to be updated to "Windows 11" to avoid Cyber security risks. Most of installed PCs are too old not compatible configuration for Window-11. In all, approximately 750 nos. Desktop Computer Systems will need to be replaced. In addition, there is a "CSPGCL Power" App that is a monitoring tool for Operation Technology (OT) system's live data. At present, it is installed in normal desktop systems. With continuous running, the systems get slow down & suffer shut down frequently. Therefore, it is proposed to install 2 Servers for reliable & efficient operation. The replacement of servers is proposed in FY 26-27 itself and the normal PCs in phased manner from FY 26-27 to FY 28-29. The instant case is

triggered by the obsolescence of technology and security risks and is entirely different from the normal acquisition of “minor” items. The estimated cost of the scheme is around Rs. 4.50 Cr and the scheme qualifies under Regulation 19.2 (vii), 19.3 (a) & (c).

127. Scanners for OT (Operation Technology) Systems at Plants - Whenever it is required to update the OT systems, OEM/Vendor update the system in offline mode by CD/Pen drive/Laptop or some other media device. Thus, from Cyber Security point of view, it is necessary, to scan & sanitise these media device before access to our OT system. Hence, it is proposed that total 10 number Portable Specialised Device Scanners shall be provided at various control rooms and critical offices to perform targeted scans locally. Total cost of such specialised devices along with Firewall, Internet etc. required for updating the patches daily is estimated to be about Rs. 90 lakh. Hon’ble Commission is prayed to approve the scheme under Regulation 19.2 (vii).

128. Installation of Data back up System, Cyber Security Operation Centre (CSOC) – It is humbly submitted that the purpose and importance of data backup may not need any deliberation. As per CCMP (Cyber Crisis Management Plan), backup system must be installed for business continuity. As per Cyber Security Guideline, logs should be stored for the 180-days at least, thus back up system also help in this manner also. Further, there is an emerging need of setting up of Cyber Security Operation Centre (CSOC). It is a centralized facility for continuously monitoring, detecting, investigating, and responding to cyber threats and incidents within an organization's network and systems.

It is submitted that the MoP has already recognised these issues and has set up a Computer Emergency Response Team (CERT) under the aegis of CEA. CSPGCL plans to install the CSOC and the data back up plan in accordance to the expert guidelines including the directions of CERT-P. However, as finalisation of these guidelines and plans may take some time, therefore, it may not be prudent to assign specific cost or time schedule at this stage. Hon’ble Commission is prayed to grant in principle approval under Regulation 19.2 (vii) and 20 for the above two schemes.

129. Upgradation of Centralised Monitoring System (CMS) – It is submitted that the existing generation monitoring system at GCC and the plants has become obsolete. Further, it don’t have the features related to CMS. It is proposed to upgrade/replace the same. However, as the protocol for cyber security may have some inter relation with the CMS, therefore, the proposal shall be implemented in FY 26-27

after expert study. Hon'ble Commission is prayed to grant in principle approval under Regulation 19.2 (x) and 20 please.

130. Capital scheme details are submitted in the Annexure -6.

J. Other Capital Investment Plan

131. It is submitted that the basic purpose of CIP is to ascertain the Capitalisation for determination of tariff of operational plants hence the instant CIP is limited to the schemes, which will have bearing on the MYT of plants in operation. As determination of tariff for new projects and also the supplementary tariff for Emission Control Systems is governed by separate Tariff determination process hence these schemes are not part of the instant plan. In this reference, kind attention is invited to Regulation 5.8 and 5.9.

“5.8 A generating company may file a Petition for determination of provisional tariff 120 days in advance of the anticipated Date of Commercial Operation of unit or stage or generating station as a whole, or for the emission control systems, as the case may be, based on the capital expenditure actually incurred up to the date of making the Petition or a date prior to making of the Petition, duly audited and/or certified by the statutory auditors/Chartered Accountant/Cost Accountant and the provisional tariff shall be applicable from the date of commercial operation of such Unit or Stage or Generating station , as the case may be.

5.9. The generating company shall file separate generating station-wise petition for supplementary tariff for emission control systems.”

132. In the above context it is also noted that in the previous order, Hon’ble Commission has also directed that :

“CSPGCL is directed to approach the Commission in a timely manner for approval of completed Capital Cost and tariff approval, after COD.”

133. Accordingly, at this stage no submissions are pertinent to the instant petition. Leave is craved for separate filing on the twin matters in accordance to Regulations.

Annexure 1: Capital Investment Plan For 4X210MW HTPS

All figures in Rs Cr

Sl.No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>SPILL OVER SCHEME</u>						
1	2nd stage Raising of Lagoon I A from R.L. 313.00 M to 318.00 M. at Ash Dyke Jhabu (Regulation i.e. 19.2(v))	6.88	2.88	0.00	0.00	0.00
2	Installation of Brick manufacturing unit in compliance of CTO by CECB (Regulation 19.2 (iii) and Regulation 20)	In Principle				
3	Ash Water Recirculation System (AWRS) at Jhabu Ash Dyke (Regulation 19.2 (iii))	40.00	2.00	0.00	0.00	0.00
SUB TOTAL – SPILL OVER SCHEME		46.88	4.88	0.00	0.00	0.00
<u>NEW SCHEME</u>						
4	Construction of Cement Concrete Road over starter dykes and ramps for ash transportation work from Jhabu Ash Dyke (Regulation 19.2 (iii))	2.72	1.32	1.40	0.00	0.00
5	Height raising of ash dyke i.e deferred works of ash dyke (Regulation 19.2 (v) & Regulation 113 & 115)	4.57	3.15	1.42	0.00	0.00
6	Plantation in compliance of directions of MoEF&CC (Regulation 19.2 (iii))	24.79	12.40	12.40	0.00	0.00
SUB TOTAL NEW SCHEME		32.08	16.87	15.22	0.00	0.00
TOTAL ALL SCHEME		78.96	21.75	15.22	0.00	0.00

Annexure 2: Capital Investment Plan for Dr. Shyama Prasad Mukherjee TPS

All figures in Rs Cr

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>SPILL OVER SCHEME</u>						
1	Second Raw Water Line for DSPM TPS from KTPS and installation of filters & laying of drinking water lines (Regulation 19.2 (x))	12.66	9.21	0.00	0.00	0.00
2	Colony CC TV Network (Regulation 19.2 (vii))	2.00	2.00	0.00	0.00	0.00
3	Numerical Protection Relays in 6.6 & 0.4 KV Auxiliaries (Regulation 19.3 (c))	1.60	1.60	0.00	0.00	0.00
4	VFD drive for CEP (Regulation 19.2(iii))	3.84	1.28	2.56	0.00	0.00
5	One number complete new BFP Cartridge (Regulation 19.2(x))	2.00	2.00	0.00	0.00	0.00
6	One number Complete Impeller Assembly of FD Fan (Regulation 19.2(x))	1.90	1.90	0.00	0.00	0.00
7	Procurement of capital spares of ESP Unit#1 (Regulation 19.2(x)) & 19.3 (a)	1.60	1.60	0.00	0.00	0.00
8	High mast along with PCC Poles & AB Cables for Ash Dyke located at Godhi Ash Dam (Regulation 19.2 (iii))	0.46	0.46	0.00	0.00	0.00
9	Replacement of Railway line (Regulation 19.2 (x), 19.3 (b))	33.18	19.91	13.27	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
10	Construction of occupational health centre and workshop (Regulation 19.2(x))	0.65	0.38	0.00	0.00	0.00
11	4th stage raising of Lagoon no. II from RL 319m to 322m of ash dyke at vill-Gorhi/Pandripani (Regulation 19.2(v))	2.57	1.29	0.00	0.00	0.00
12	Construction of RCC peripheral drains & chute drains in buttressing, Phase-I & Phase-II of Podimar ash dyke (Regulation 19.2(v))	2.23	1.23	0.00	0.00	0.00
13	Construction of RCC drain at JPS side, tower line side, Pandripani side at Ash Dyke of village Gorhi / Pandripani (Regulation 19.2(v))	3.74	1.24	0.00	0.00	0.00
14	Strengthening of embankment of Lagoon No.-1 & 2 of Gorhi/ Pandripani ash dyke (Regulation 20)	In principle				
15	Revamping, Upgradation & Augmentation of Fire Alarm, smoke & heat detection system at CHP, Oil Pump house, Admin building & Fire Station (Regulation 20)	In principle				
SUB TOTAL – SPILL OVER SCHEME		68.43	44.09	15.83	0.00	0.00
<u>NEW SCHEME</u>						
16	Replacement of 24 Volt Dual FCBC Battery Chargers of DCS Panels & PLC Panels of Unit No-01 & 02 (Regulation 19.3(a) & (c))	2.00	2.00	0.00	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
17	Replacement of Battery Bank of UPS/24 V of DCS of Unit no. 1 (Regulation 19.3(a))	1.10	0.00	1.10	0.00	0.00
18	Upgradation of Input - Output modules (I/O modules) of PLC of DM plant (Regulation 19.3(a) & (c))	0.80	0.80	0.00	0.00	0.00
19	Replacement of Rectifier Transformer for KTPS Hydrogen Plant (Regulation 19.3(a) & (c))	0.55	0.55	0.00	0.00	0.00
20	Numerical Protection Relays for Generator (Regulation 19.3 (c))	2.00	1.00	1.00	0.00	0.00
21	Capital Spares (Regulation 19.2 (x))	20.00	5.00	5.00	5.00	5.00
22	CC road from Gorhi-Bhaisma road to Gorhi barrier at Gorhi/Pandripani ash dyke (Regulation 19.2(iii))	1.00	0.00	1.00	0.00	0.00
23	5th stage raising of Lagoon No.01 of Ash dyke from RL 322m to 325m at village Gorhi/Pandripani (Regulation 19.2(v))	4.32	2.16	2.16	0.00	0.00
SUB TOTAL NEW SCHEME		31.77	11.51	10.26	5.00	5.00
TOTAL ALL SCHEME		100.20	55.60	26.09	5.00	5.00

Annexure 3: Capital Investment Plan For 1x500 MW KWTPP

All figures in Rs Cr

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>SPILL OVER SCHEME</u>						
1	Colony CC TV Network (Regulation 19.2 (vii))	2.00	2.00	0.00	0.00	0.00
2	HMI upgradation (Regulation 19.3 (a), (b) and (c))	11.00	11.00	0.00	0.00	0.00
3	New Generator Rotor (Regulation 19.2 (x))	52.51	0.00	0.00	52.51	0.00
4	ICT 220/400 KV (Regulation 19.2 (x) & 19.3 (a) & (d))	12.50	12.50	0.00	0.00	0.00
5	CEP-VFD (Regulation 19.2 (iii))	6.50	6.50	0.00	0.00	0.00
6	Fire Tender (Regulation 19.2 (vii), 19.2(x) and 19.3(a))	3.20	1.60	0.00	0.00	0.00
7	LDCC Renovation (Regulation 19.2 (x), 19.3(a) & (d))	44.00	15.40	26.40	0.00	0.00
8	Laying of 300mm dia main drinking water line from W.T. plant to OHT and grid renovation of water supply system of colony (Regulation 19.2 (x) & 19.3(a) & (d))	4.35	0.51	0.00	0.00	0.00
9	Construction of CC road for ash transportation works at Dindolbhata ash dyke (Regulation 19.2 (iii))	2.66	0.71	0.00	0.00	0.00
10	3rd stage raising the height of Pond 1B from RL 316 M to 319 M at Dindolbhata Ash Dyke (Regulation 19.2 (v))	3.88	0.78	0.00	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
11	Installation of fly ash brick / block manufacturing unit (Regulation 20)		In Principle			
SUB TOTAL – SPILL OVER SCHEME		142.60	51.00	26.40	52.51	0.00
<u>NEW SCHEME</u>						
12	166.7 MVA, 400/220/33 kV Interconnecting Transformer (Regulation 19.2 (x), 19.3 (a) & (d))	12.70	0.00	12.70	0.00	0.00
13	Replacement of 100 AH Switchyard Battery Bank (Regulation 19.2 (iii) & 19.3 (a) &(b))	0.60	0.60	0.00	0.00	0.00
14	Replacement of 2 nos. Microprocessor based Transformer protection relay for station transformer feeder (Regulation 19.2 (iii) & 19.3 (b))	0.13	0.13	0.00	0.00	0.00
15	Replacement of 3 nos. Battery banks 220V, 100AH (02 Sets)/ 225AH (one set) for CHP INT Control room (Regulation 19.3 (a))	0.92	0.92	0.00	0.00	0.00
16	Procurement of 02 Nos. new Bull Dozer, as replacement of old Bulldozers (Regulation 19.3 (a))	6.66	0.00	3.33	0.00	0.00
17	Upgradation of PLC at Hydrogen Generation Plant (Regulation 19.3 (a) & (c))	0.80	0.80	0.00	0.00	0.00
18	Procurement of 04 Nos Unbalance Motors for vibrating feeders of CHP INT (Regulation 19.2 (x) & 19.3 (a))	1.42	0.71	0.71	0.00	0.00
19	Capital Spares	20.00	5.00	5.00	5.00	5.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
20	Providing RCC boundary wall for safety of company's land from Jailgaon chowk gate to old SP type quarters to road towards CIPEAT (Regulation 19.2 (x))	1.50	1.00	0.50	0.00	0.00
21	Construction of Boundary wall from Railway siding to Jali no. 02 along Darri road (Regulation 19.2 (viii) & (x))	1.50	1.50	0.00	0.00	0.00
22	Construction of CC road for ash transportation works at different locations at ash dyke Dindolbhata (Regulation 19.2 (iii))	0.83	0.83	0.00	0.00	0.00
23	3rd Stage Raising the height of Pond – 1A from RL 316.00 M to 319.00 M of Ash Dyke Dindolbhata (Regulation 19.2 (v))	3.33	3.33	0.00	0.00	0.00
24	Buttressing of Pond- 2 of ash dyke Dindolbhata (Regulation 20)	In Principle				
25	Plantation in compliance of directions of MoEF&CC (Regulation 19.2(iii))	16.53	8.26	8.26	0.00	0.00
SUB TOTAL - NEW SCHEME		66.92	23.08	30.50	5.00	5.00
TOTAL ALL SCHEME		209.52	74.08	56.90	57.51	5.00

Annexure 4: Capital Investment Plan For 2x500 MW ABVTPS

All figures in Rs Cr

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>SPILL OVER SCHEME</u>						
1	Flexible operation (Regulation 20)		In Principle			
2	HMI upgradation (Regulation 19.3 (a), (b) and (c))	22.00	11.00	0.00	0.00	0.00
3	Upgradation of 400/220 KV Switchyard Substation Automation System (SAS) with HMI and its application software (Regulation 19.2 (iii) & (vii) and Regulation 19.3 (a) & (c))	4.70	4.70	0.00	0.00	0.00
4	VFD drive for CEP (Regulation 19.2 (iii) and (x))	13.10	6.55	6.55	0.00	0.00
5	Upgradation of service road from silo gate of Powerhouse to Auraikala ash dyke (Regulation 19.2 (iii))	3.23	1.29	0.00	0.00	0.00
6	1st stage raising of HCSD Lagoon-II(A) from RL-279 to 284 of Auraikala ash dyke (Regulation 19.2(v))	5.82	2.91	0.00	0.00	0.00
7	Construction of RCC Pedestals, chute drains & renovation of drainage system of Auraikala ash dyke (Regulation 19.2 (iii) & (v))	0.96	0.38	0.00	0.00	0.00
8	Construction of starter dyke at village Auraikala (Regulation 19.2 (v))	1.60	0.60	0.00	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
9	Construction of CC road over TBL of Bottom Ash Lagoon and on various approaches along with truck lay-by at Auraikala ash dyke (Regulation 19.2(v))	2.39	0.95	0.00	0.00	0.00
SUB TOTAL – SPILL OVER SCHEME		53.80	28.38	6.55	0.00	0.00
NEW SCHEME						
10	Replacement of station battery bank capacity 220V 2250 AH for Unit#1 (Regulation 19.3(a) & Regulation 20)	3.70	0.00	3.70	0.00	0.00
11	Replacement of 220V, 300 AH for batteries for AHP (Regulation 19.3 (a))	0.50	0.50	0.00	0.00	0.00
12	Upgradation of GE-Emerson Make PLC System of various location of BOP-C&I (Regulation 19.3(c))	1.30	1.30	0.00	0.00	0.00
13	Numerical distance Protection Relay for line feeders of 400 KV and 200 KV switchyard (Regulation 19.2(iii) & Regulation 19.3(b))	0.61	0.61	0.00	0.00	0.00
14	Replacement of Thermo-vision Camera (Regulation 19.3 (c))	0.46	0.46	0.00	0.00	0.00
15	HP Module (Regulation 19.2(x) & Regulation 20)	In Principle				
16	Air Heater basket of Unit 2 (for ex post factor approval) (Regulation 19.2 (x))	6.13	0.00	0.00	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
17	Capital Spares (Regulation 19.2 (x))	40.00	10.00	10.00	10.00	10.00
18	NDCT Work (Regulation 20)		In Principle			
19	First stage raising of Bottom Ash Lagoon from RL 284.5 to RL 289.5 of Auraikala ash dyke (Regulation 19.2(v))	11.71	11.71	0.00	0.00	0.00
20	High mast along with PCC Poles & AB Cables for Ash Dyke located at Auraikala (Regulation 19.2(iii))	0.42	0.42	0.00	0.00	0.00
SUB TOTAL - NEW SCHEME		64.83	25.00	13.70	10.00	10.00
TOTAL ALL SCHEME		118.63	53.38	20.25	10.00	10.00

Annexure 5: Capital Investment Plan for 3x40 MW Hasdeo Bango Hydro Power Station

All figures in Rs Cr

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>SPILL OVER SCHEME</u>						
1	Refurbishment of old runner of Main Turbine (Regulation 19.2 (x) & 19.3 (a))	In Principle				
2	Complete replacement of existing Generator CO2 fire protection system (CO2 flooding system) new microprocessor based CO2/clean gas based fire protection system (Regulation 19.2 (vii) & Reg. 19.3(c))	1.10	1.10	0.00	0.00	0.00
3	Retrofitting / renovation of oil lubricant based turbine guide bearing with water lubricated TGB system of one unit (Regulation 19.2 (iii), (viii) and Regulation 19.3 (b))	4.00	4.00	0.00	0.00	0.00
4	Fire Tender (Regulation 19.2(vii), (x) & 19.3 (a))	1.60	1.60	0.00	0.00	0.00
5	Renovation of DCS SCADA based control system (Regulation 20)	In Principle				
SUB TOTAL – SPILL OVER SCHEME		6.70	6.70	0.00	0.00	0.00

Sl. No.	Description	Scheme cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
NEW SCHEME						
6	Line Feeder Relay system with Real Time Online Remote monitoring system (Regulation 19.3 (c))	0.73	0.00	0.73	0.00	0.00
7	Replacement of 220V, 600 AH Station Battery Bank (Regulation 19.3 (a))	0.75	0.75	0.00	0.00	0.00
8	Capital Spares	4.80	1.20	1.20	1.20	1.20
SUB TOTAL - NEW SCHEME		6.28	1.95	1.93	1.20	1.20
TOTAL ALL SCHEME		12.98	8.65	1.93	1.20	1.20

Annexure 6:Capital Investment Plan for HO & GP-III

All figures in Rs Cr

Sl.No.	Description	Scheme Cost	EXPECTED CAPITALISATION			
			FY 26-27	FY 27-28	FY 28-29	FY 29-30
<u>New Schemes for HO</u>						
1	New HO Complex at Nava Raipur - At a total cost Cr with CSPGCL share of 35.67% (Regulation 19.2 (iii) and (x))	89.18	0.00	0.00	89.18	0.00
2	Replacement of Computer Systems and Server - Regulation 19.2 (vii), 19.3 (a) & (c)	4.50	2.50	1.00	1.00	0.00
3	Scanners for OT (Operation Technology) Systems at Plants - Regulation 19.2 (vii)	0.90	0.90	0.00	0.00	0.00
4	Installation of Data back up System, Cyber Security Operation Centre (CSOC) - Regulation 19.2 (vii) and Regulation 20	In principle				
5	Upgradation of Centralised Monitoring System - Regulation 19.2 (x) and Regulation 20	In Principle				
TOTAL ALL SCHEME FOR HO		94.58	3.40	1.00	90.18	0.00
<u>Spill Over Schemes for GP-III</u>						
1	Capital cost of Gare Pelma III (GP-III)	1122.08	247.64	11.00	0.00	0.00

CIP SUMMARY**Summary of Expected Capitalisation against CIP Schemes for
Control Period FY 26-27 to FY 29-30**

All Figures in Rs Cr

SN	Plant	Scheme Type & No.	Upto 31.03.26	FY 26-27	FY 27-28	FY 28-29	FY 29-30	Control Period
1	HTPS	Pre Appr. 3	42.00	4.88	0.00	0.00	0.00	4.88
		New 3	0.00	16.87	15.22	0.00	0.00	32.08
		Total 6	42.00	21.75	15.22	0.00	0.00	36.96
2	DSPM	Pre Appr. 15	8.51	44.09	15.83	0.00	0.00	59.93
		New 8	0.00	11.51	10.26	5.00	5.00	31.77
		Total 23	8.51	55.60	26.09	5.00	5.00	91.70
3	KWTPP	Pre Appr. 11	12.69	51.00	26.40	52.51	0.00	129.91
		New 14	3.33	23.08	30.50	5.00	5.00	63.59
		Total 25	16.02	74.08	56.90	57.51	5.00	193.50
4	ABVTPS	Pre Appr. 9	18.87	28.38	6.55	0.00	0.00	34.93
		New 11	6.13	25.00	13.70	10.00	10.00	58.70
		Total 20	25.00	53.38	20.25	10.00	10.00	93.63
5	Bango	Pre Appr. 5	0.00	6.70	0.00	0.00	0.00	6.70
		New 3	0.00	1.95	1.93	1.20	1.20	6.28
		Total 8	0.00	8.65	1.93	1.20	1.20	12.98
Sub Total of Plants	Pre Appr. 43	82.07	135.05	48.78	52.51	0.00	236.35	
	New 39	9.46	78.40	71.61	21.20	21.20	192.41	
	Total 82	91.53	213.46	120.39	73.71	21.20	428.76	
6	GP-III Capital Cost	Pre Appr. 1	855.24	247.64	11.00	0.00	0.00	258.64
		New 0	0.00	0.00	0.00	0.00	0.00	0.00
		Total 1	855.24	247.64	11.00	0.00	0.00	258.64
7	HO	Pre Appr. 0	0.00	0.00	0.00	0.00	0.00	0.00
		New 5	0.00	3.40	1.00	90.18	0.00	94.58
		Total 5	0.00	3.40	1.00	90.18	0.00	94.58
Grand Total	Pre Appr. 44	937.31	382.69	59.78	52.51	0.00	494.99	
	New 44	9.46	81.80	72.61	111.38	21.20	286.99	
	Total 88	946.77	464.50	132.39	163.89	21.20	781.97	

Note –

*HTPS capital schemes are related to Change / Compliance of Law- Major works are – Installation of AWRS at Jhabu Ash Dyke (Scheme cost about 40 Cr), Plantation as per MOEF &CC directive (Scheme cost about 24.79 Cr) and the rest (about 14.17 Cr) are ash Dyke related differed works.

Pre- Approved Schemes imply Schemes which have already been approved by the Commission in the order Dated 08th July 2025 however as they will continue beyond 31st march 2026, hence are included in the instant petition.
