



DAMODAR VALLEY CORPORATION

Clarification /additional information in compliance with directives in Record of Proceedings (ROP) for hearing on 13.03.2024 i.r.o. Petition No. 361/MP/2023 for determination of tariff on installation of various Emission Control Systems in BTPS-A (1x500 MW) in compliance of Revised Emission Standards.



**BEFORE THE HONOURABLE
CENTRAL ELECTRICITY REGULATORY COMMISSION
3RD & 4TH FLOOR, CHANDERLOK BUILDING,
36, JANPATH, NEW DELHI-110001**

Petition No. 361/MP/2023

IN THE MATTER OF:

Clarification /additional information in compliance with directives in Record of proceedings (ROP) for hearing conducted on 13.03.2024 i.r.o. Petition under Section 62 and 79(1)(a) of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for determination of tariff on installation of various Emission Control Systems in Bokaro-A Thermal Power Station (1x500 MW) of Damodar Valley Corporation (DVC) in compliance of Revised Emission Standards.

AND

IN THE MATTER OF:

Damodar Valley Corporation
DVC Towers, VIP Road,
Kolkata – 700054

-----Petitioner

Versus

1. Punjab State Power Corporation Limited,
Inter-State Building Shed No. TI-A,
Patiala-147001.

And Others

-----Respondents

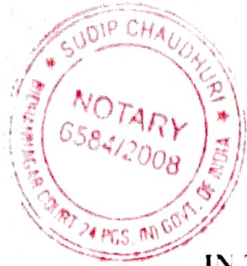


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**BEFORE THE HONOURABLE
CENTRAL ELECTRICITY REGULATORY COMMISSION
3RD & 4TH FLOOR, CHANDERLOK BUILDING,
36, JANPATH, NEW DELHI-110 001**



Petition No. 361/MP/2023

IN THE MATTER OF:

Clarification /additional information in compliance with directives in Record of proceedings (ROP) for hearing conducted on 13.03.2024 i.r.o. Petition under Section 62 and 79(1)(a) of the Electricity Act, 2003 read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for determination of tariff on installation of various Emission Control Systems in Bokaro-A Thermal Power Station (1x500 MW) of Damodar Valley Corporation (DVC) in compliance of Revised Emission Standards.

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-----Petitioner

Versus

1. Punjab State Power Corporation Limited,
Inter-State Building Shed No. TI-A,
Patiala-147001.

And Others

-----Respondents

27 MAR 2024



BEFORE THE NOTARY PUBLIC
AT BIDHANNAGAR
DIST.-NORTH 24 PARGANAS

SL. NO. 5801/2024

AFFIDAVIT

I, Kazi Md Hanif, son of Late Kazi Md Nuruddin, aged about 59 years and resident of 67, Sukanta Sarani, Badra, PO - Italgacha, Kolkata- 700079 do hereby solemnly affirm and state as under:

1. That I am the Deputy General Manager (Commercial) of Damodar Valley Corporation, the Petitioner and well conversant with the facts of the case. I am authorized to swear this affidavit on behalf of the Petitioner.

That I have gone through the terms of directions contained in Record of proceedings (ROP) for hearing conducted on 13.03.2024 against Tariff Petition No. 361/MP/2023 and the Petitioner, Damodar Valley Corporation (DVC) is filing herewith clarification /additional information relating to petition for determination of tariff on installation of various Emission Control Systems in BTPS-A (1x500 MW) of DVC in compliance of Revised Emission Standards.

3. That I have read and understood the contents of the additional submission along with all annexures and the same are based on the records maintained by the petitioner in the normal course of business and believed by the deponent to be true.

Hanif Kazi

Deponent

उप महाप्रबंधक (वाणि.)
Dy. General Manager (Comml.)
वाणिज्यिक विभाग/Commercial Deptt.
दा.पा.नि., कोल-54/D.V.C., Kol-54

VERIFICATION

I, the above-named deponent, do hereby verify that the facts stated in the above Affidavit are true to the knowledge of the deponent and nothing has been concealed there from.

Hanif Kazi

Deponent

उप महाप्रबंधक (वाणि.)
Dy. General Manager (Comml.)
वाणिज्यिक विभाग/Commercial Deptt.
दा.पा.नि., कोल-54/D.V.C., Kol-54

Verified at Kolkata

On the Date: 27th Day of March, 2024

S. Chaudhuri
S. CHAUDHURI
NOTARY
GOVT. OF INDIA
Regn. No.-6584/08
Bidhannagar Court
Dist.-North 24 Pgs

27 MAR 2024

Identified by me

Manoj B. A
MANOJ B. A
Enrolment No-F-24
Bidhan Nagar C
Kolkata-7000



Submission of Damodar Valley Corporation in compliance to the Record of Proceedings of the Hearing dated- 13.03.2024 i.r.o. Petition No. 361/MP/2023

Hon'ble Commission in its ROP of the hearing dated- 13.03.2024 directed Damodar Valley Corporation (hereinafter DVC) to file clarification /additional information to specific queries raised therein. The response of DVC to each of the queries are as follows:

5(a): *“Completion status of works for each of the major heads, along with percentage and expenditure incurred thereon, associated with WFGD as on 14.10.2021, 30.11.2023 and 29.02.2024.”.*

Reply of 5(a):

The completion status of works for each on the major heads associated with WFGD, as desired, is provided below:

Sl. No.	Progress	14.10.2021		30.11.2023		29.02.2024	
	Major Heads	Physical	Financial	Physical	Financial	Physical	Financial
1	Absorber	40%	35%	98%	98%	99%	100%
2	Limestone Grinding system						
3	Gypsum dewatering system						
4	Others						

5(b): *“In view of the revised timelines for implementation of ECS, revision, if any, in the proposed ‘Date of Operationalization’ of these ECS systems. Further, the actions proposed to be taken to minimize the impact of these ECS systems on consumers during the period from ‘Date of Operation’ to the above timelines, particularly regarding utilization/service of these ECS systems.”.*

Reply of 5(b):

The timeline for FGD system, as desired, is as follows:

Sl. No.	Unit	Scheduled date of completion of facilities as per original L1 schedule	Anticipated date of Operation (as per petition)	Anticipated date of operation (Revised)
1	BTPS A	14.10.2021	30.11.2023	15.04.2024

5(c): *“The original cost approved by the board, along with supporting documents, for WFGD with respect to the instant station out of the Rs. 2410.0 crore approved in February, 2019 for various stations of DVC. Furnish a detailed break up of the original cost estimate in terms of Form B of 2019 Tariff Regulations and reasons for variation in actual cost with respect to the original estimated cost.”.*



Reply of 5(c):

The cost of FGD for the instant station (1x500 MW) is 380.53 cr. out of which 335.50 cr. is considered as EPC cost and the rest includes IDC, IEDC, Financing charges, etc.

The detailed breakup is furnished below:

Head of Supply	Sanction cost for supply (Rs. Cr.)	Break up of Sanctioned Cost (Rs. Cr.)
Absorber	234.44	31.77
Fan and ducting		17.80
LS and Gypsum handling		24.45
Chimney		64.94
Others		95.47
Total		234.43

Head of Works & Service	Total Sanction cost (Rs. Cr.)	Sanction Cost (Rs. Cr.)
Ball Mill Building	101.06	2.44
Gypsum Dewatering Building & Gypsum Storage Shed		8.03
SO2 Analyzer Rooms+ Tanks+ Slurry Pumps Works		7.46
Crusher house+ Lime Belt Conveyor (LBC)1,2,3- Galleries and Trestle		7.72
ACW PH BUILDING- Air Compressor Building+ Switchgear Building		0.61
Other Enabling Works incl. Roads/Drains		4.84
Chimney system - FGD		19.72
Common Systems- FGD		20.80
FGD Control Room Building		4.44
Pre-commissioning		25.00

Reasons for price variation:

Cost variation occurred mainly due to Price Variation (PV) Clause as per contract agreement as well as Extension of the Contract due to Force Majeure Clauses in the event of COVID-19.



5(d): “The original cost approved by the Board, along with supporting documents, for CMS with respect to the instant station out of Rs.124.55 crore approved in February, 2019 for various stations of DVC.”

Reply of 5(d):

The sanction EPC cost approved by the DVC Board in February,2019 is 12.80 Cr. for installing the CMS in the BTPS-A plant.

5(e): “The approval of the Board from the original cost estimation made for WFGD in February,2019, the Revised Cost Estimate of Rs.405.93 crore made in June,2021 and the Revised Cost Estimate of Rs.468.69 crore made in May, 2023 along with reasons and supporting documents thereof”.

Reply of 5(e):

The cost breakup of the above-mentioned estimate is as follows:

Cost heads	Original Sanction based on Board Resolution in May'21 at the time of LoA (Rs. Cr.)	Revised Estimated Project Cost including PV considering provisional time extension up to 14.10.2023 (Rs. Cr.)	Cost Enhancement (Rs. Cr.)
Supply	218.22	218.22	-
Service	94.07	94.07	-
Sub Total	312.29	312.29	-
GST	56.21	56.21	-
Price variation (Supply & Service) including GST (expected up to July,2023)		45.55	45.55
Expected Price variation amount (Supply & Service) considering another 2.5 months' time extension due to 2 nd wave of COVID-19 (50% of PV amount calculated for 6 months' time extension already provided		13.67	13.67
Total EPC Cost	368.5	427.72	59.22
Contingency @3.0%	11.05	12.83	1.78
IDC	26.38	28.14	1.76
Project Cost including Contingency & IDC	405.93	468.69	62.76

Remark: Cost variation occurred mainly due to PV clause as per contract agreement as well as Extension of the Contract due to Force Majeure Clauses in the event of COVID-19.



5(f): “Clear and legible copy of L1 schedule agreed between the Petitioner and Contractor in September’ 2019 i.e. Annexure-III to the report on delay in execution of WFGD”.

Reply of 5(f):

The desired copy of L1 schedule is attached in **Annexure-I**.

5(g): “The actual timelines (from date and to date) achieved, along with the PERT chart, for each of the activities listed in the L1 schedule for WFGD, along with the delay attributable to Petitioner, Contractor and both with respect to each such activity”.

Reply of 5(g):

The delay incurred for different activities of the L1 schedule for BTPS WFGD is neither attributable to the Petitioner nor the contractor.

PERT Chart considering anticipated ODe as proposed in the petition is attached in **Annexure-II**. After operationalization of ECS, PERT Chart considering actual ODe will be submitted in true-up petition.

5(h): “The penalty levied on the Contractor on account of delay in execution of works in terms of award of contract and money recovered therefrom with respect to WFGD and CMS.”.

Reply of 5(h):

The detailed justification for the delay has already been submitted with the petition. The penalty, if any, will be decided during the final delay analysis to be carried out after completion of the project. Accordingly, the same information will be provided in true-up petition.

5(i): “The detailed break up of IEDC in terms of ‘Form P’ of the 2019 Tariff Regulations as on installation of CMS as well as WFGD, along with reasons for claiming IEDC over and above the normative O&M allowed to the generating station under relevant regulations”.

Reply of 5(i):

DVC has claimed IEDC in the tariff petition on estimate basis. IEDC booked in Accounts is Rs. 1751.76 Lakh for FGD and Rs. 98.86 Lakh for CMS as on 31st March, 2023. After operationalization of ECS of both units, actual IEDC upto the date of operationalization of ECS with detailed breakup will be provided in true-up petition.

Reasons for claiming IEDC: Installation of emission control system is construction work and O&M Personnel are no way connected this construction activity. IEDC claimed is for construction activity part only.



As directed in the ROP, all the beneficiaries including West Bengal State Electricity Distribution Company Limited (WBSEDCL) and Jharkhand Bijli Vitran Nigam Limited (JVVNL) have been impleaded as parties to the present petition and served them a copy of the petition (**Annexure-III**).

Further to above, DVC most respectfully submits that Hon'ble Commission may kindly determine supplementary tariff for ECS at the earliest so that billing can be started w.e.f. the date ODe.


उप महाप्रबंधक (वाणि.)
Dy. General Manager (Comml.)
वाणिज्यिक विभाग / Commercial Deptt.
द.वा.नि., कोल-54/D.V.C., Kol-54

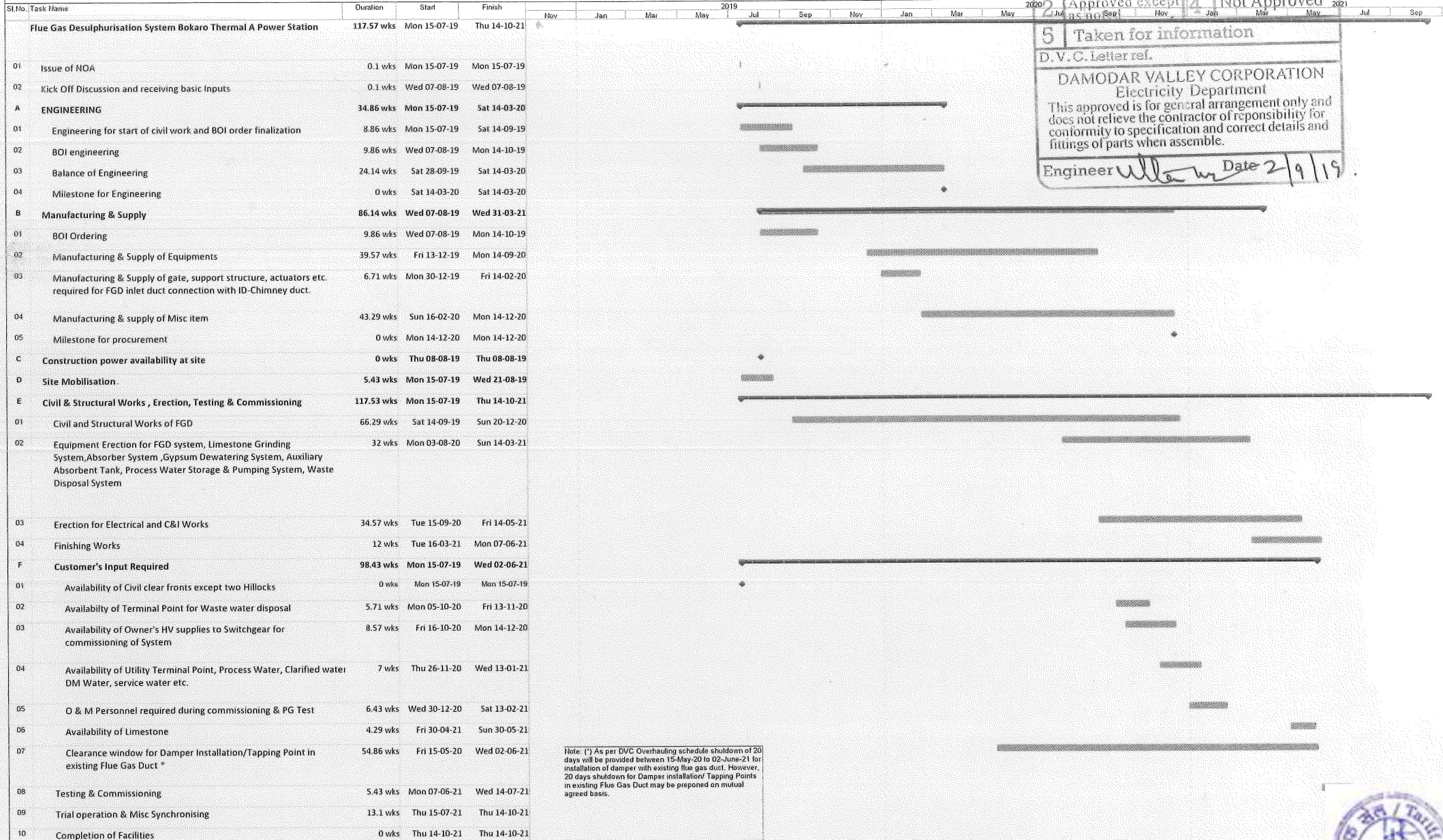
For and on behalf of
Damodar Valley Corporation



FLUE GAS DESULPHURISATION SYSTEM FOR DVC BOKARO THERMAL TPP
CONTRACTOR : TECHNO ELECTRIC & ENGINEERING CO LTD

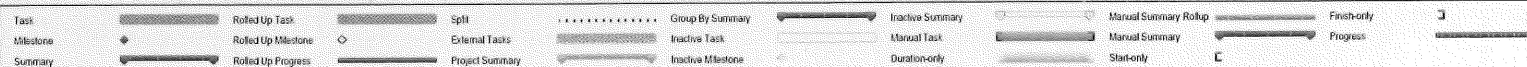


EDCON/PROJECT MANAGEMENT/ITPSA/L1 SCHEDULE/ 01



1	Approved	3	Approved except as noted resubmission required
2	Approved except as noted	4	Not Approved
5 Taken for information			
D.V.C. Letter ref.			
DAMODAR VALLEY CORPORATION Electricity Department This approved is for general arrangement only and does not relieve the contractor of responsibility for conformity to specification and correct details and fittings of parts when assemble.			
Engineer <i>Ullas</i> Date <i>2/9/19</i>			

2/9/19
Techno Electric

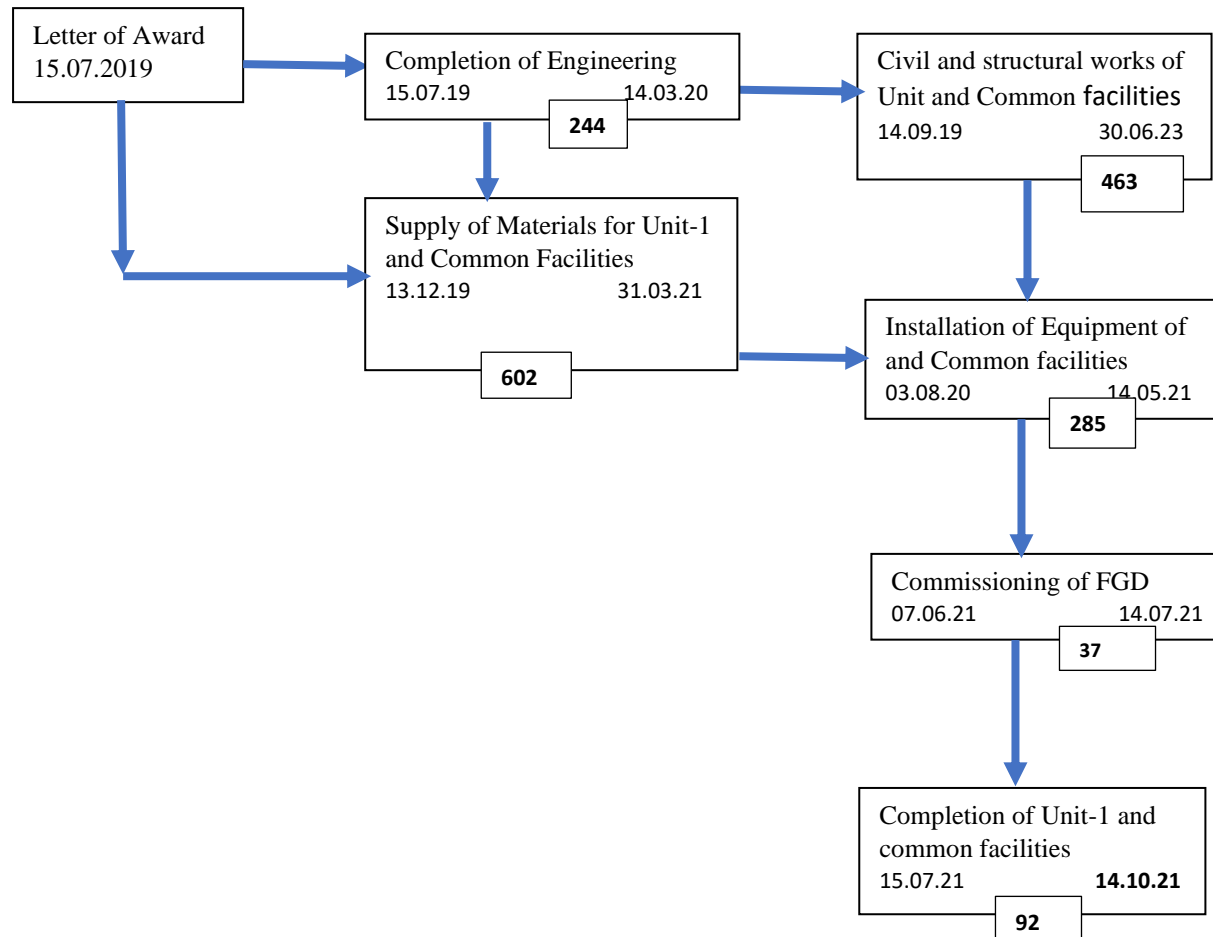


L1 SCHEDULE

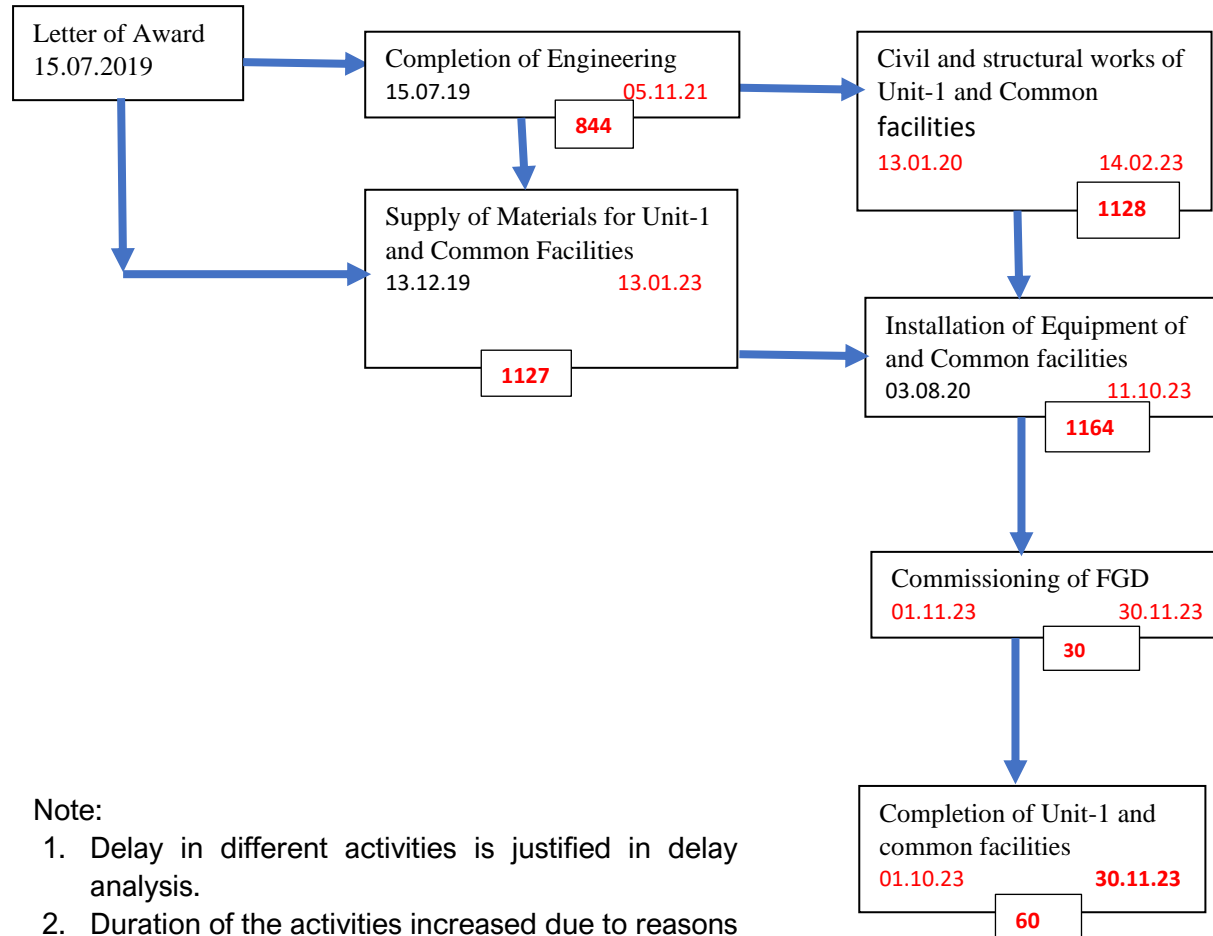
Date of LOI : 15.7.19



PERT Network of BTPS-A Original L1 Schedule



PERT Network of BTPS-A as per Anticipated Delay



Note:

1. Delay in different activities is justified in delay analysis.
2. Duration of the activities increased due to reasons mentioned in the delay analysis.



Email

KAZIMD HANIF

Information i.r.o. Petition No. 361/MP/2023 for Installation of Emission Control System in BTPS-A (1x500MW)

From : KAZIMD HANIF <kazi.hanif@dvc.gov.in> Sat, Mar 30, 2024 10:57 AM
Subject : Information i.r.o. Petition No. 361/MP/2023 for Installation of Emission Control System in BTPS-A (1x500MW) 4 attachments
To : cereg wbsedcl <cereg.wbsedcl@gmail.com>, JUVNLDELHI@GMAIL.COM, juvnldelhi@gmail.com
Cc : SANJIV SHRIVASTAVA <sanjiv.shrivastava@dvc.gov.in>, ARUN PATRA <arun.patra@dvc.gov.in>, SUBRATA GANGULY <subrata.ganguly@dvc.gov.in>, SAMIT MANDAL <samit.mandal@dvc.gov.in>, BIJOY MUKHERJEE <bijoy.mukherjee@dvc.gov.in>

Dear Sir(s),

Petition for determination of tariff for installation of **Emission Control System (FGD + CM) in BTPS-A (1x500 MW)** in compliance of Revised Emission Standards was submitted before Hon'ble CERC on 17.10.2023. As directed by Hon'ble CERC, under Sl.no. 4(b) of ROP on hearing dated- 13.03.2024, West Bengal State Electricity Distribution Company Limited (WBSEDCL) and Jharkhand Bijli Vitran Nigam Limited (JVVNL) have been added in the list of Respondent on 26.03.2024 for the subject petition.

Subject Petition along with copy of Acknowledgement, Screenshot of Respondent details & copy of ROP are attached herewith for your kind information please.

With regards,

Kazi Md Hanif,

Dy. General Manager (M),

Commercial Department,

DVC, Kolkata

Mob: 9831940849

 **BTPS_ECS_1st ROP (19.03.24).pdf**
92 KB

 **BTPS_ECS_Resspondent details (26.03.24).pdf**
66 KB

 **BTPS-A_ECS_Petition_Acknowledgement (17.10.23).pdf**
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 **BTPS-A_Petition for ECS (17.10.23).docx**
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FILING - RESPONDENT LIST

Petition No. : 361/MP/2023

Diary No. : 466/2023

Reference No. : 579/2023

[Add Respondent](#)
[Change Respondent Order](#)

Name	Represented By	Address	Added On	Mobile	E-Mail	
Punjab State Power Corporation limited (PSPCL)	Suresh Kumar Kansal	Dy. CE/ISB, shed T-1A, shakti vihar, PSPCL, Patiala, PUNJAB - 147001	12/10/2023	9646121804	seisbpspcl@gmail.com	
West Bengal State Electricity Distribution Company Limited (WBSEDCL)	Sri Sudipta Mukhopadhyay	Vidyut Bhavan, Block-DJ, Sector-II, Salt Lake, Kolkata-700091, Kolkata (Formerly Calcutta), WEST BENGAL - 700091	26/03/2024	8981131572	cereg.wbsedcl@gmail.com	
JHARKHAND BIJLI VITRAN NIGAM LIMITED (JBVNL)	PRASHANT CHATURVEDI	ENGINEERING BUILDING,HEC, DHURWA, Ranchi, JHARKHAND - 834004	26/03/2024	8218517838	JUVNLDELHI@GMAIL.COM	



CENTRAL ELECTRICITY REGULATORY COMMISSION
New Delhi

Petition No. 361/MP/2023

Subject : Petition under Sections 62 and 79(1)(a) of the Electricity Act, 2003, read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019, for determination of tariff on the installation of various **Emission Control Systems in Bokaro-A Thermal Power Station (1x500 MW)** of Damodar Valley Corporation (DVC) in compliance of the Revised Emission Standards.

Date of Hearing : **13.3.2024**

Coram : Shri Jishnu Barua, Chairperson
Shri P. K. Singh, Member

Petitioner : Damodar Valley Corporation (DVC)

Respondent : Punjab State Power Corporation Limited (PSPCL)

Parties present : Shri Kazi Md. Hanif, DVC

Record of Proceedings

The instant petition is filed by Damodar Valley Corporation (DVC) under Sections 62 and 79(1)(a) of the Electricity Act, 2003, read with Regulation 29 of the Central Electricity Regulatory Commission (Terms and Condition of Tariff) Regulations, 2019 for determination of tariff on the installation of various Emission Control Systems in Bokaro-A Thermal Power Station (1x500 MW) of DVC in compliance with the Revised Emission Standards by the Ministry of Environment, Forest and Climate Change (MoEFCC) vide notification dated 7.12.2015.

2. The representative for the Petitioner submitted that the Commission, vide order dated 20.9.2021 in Petition No. 459/MP/2019, has already granted in-principle approval for Additional Capital Expenditure (ACE) under Regulation 11 of the 2019 Tariff Regulations and approved the hard cost towards installation of WFGD systems to control SO₂ emissions and installation of Combustion Modification System to control NO_x emission. It was further submitted that the installation work of the Emission Control System (ECS) and FGD is almost complete; trial operation of the plant will commence on 15.3.2024 and is expected to be put into commercial operation.

3. The representative of the Petitioner submitted that tariff forms along with relevant information as per the 2019 Tariff Regulations have been filed and requested to grant interim tariff on a provisional basis for recovery of supplementary fixed charge from



date of operationalization of emission control system till disposal of the petition. He further submitted that any variation between the interim tariff and the final tariff approved would be adjusted as per the 2019 Tariff Regulations.

4. After hearing the representative of the Petitioner, the Commission directed as follows:

- a) Admit the instant petition.
- b) Petitioner to implead all the beneficiaries of DVC, including West Bengal State Electricity Distribution Company Limited (WBSEDCL) and Jharkhand Bijli Vitran Nigam Limited (JVVNL), as parties to the present petition and serve upon them a copy of the petition as well as file amended memo of parties by 31.3.2024.
- c) Issue notice to the Respondents, including WBSEDCL and JBVNL.

5. **The Commission further directed the Petitioner to submit the following information on an affidavit by 31.3.2024, with advance copies to the Respondents, including WBSEDCL and JBVNL:**

- a) Completion status of works for each of the major heads, along with percentage and expenditure incurred thereon, associated with WFGD as on 14.10.2021, 30.11.2023 and 29.02.2024.
- b) In view of the revised timelines for implementation of ECS, revision, if any, in the proposed 'Date of Operationalization' of these ECS systems. Further, the actions proposed to be taken to minimize the impact of these ECS systems on consumers during the period from 'Date of Operation' to the above timelines, particularly regarding utilization/service of these ECS systems.
- c) The original cost approved by the board, along with supporting documents, for WFGD with respect to the instant station out of the Rs. 2410.0 crore approved in February, 2019 for various stations of DVC. Furnish a detailed break up of the original cost estimate in terms of Form B of 2019 Tariff Regulations and reasons for variation in actual cost with respect to the original estimated cost.
- d) The original cost approved by the Board, along with supporting documents, for CMS with respect to the instant station out of Rs.124.55 crore approved in February, 2019 for various stations of DVC.
- e) The approval of the Board from the original cost estimation made for WFGD in February, 2019, the Revised Cost Estimate of Rs.405.93 crore made in June, 2021 and the Revised Cost Estimate of Rs.468.69 crore made in May, 2023 along with reasons and supporting documents thereof.
- f) Clear and legible copy of L1 schedule agreed between the Petitioner and Contractor in September, 2019 i.e. Annexure-III to the report on delay in execution of WFGD.
- g) The actual timelines (from date and to date) achieved, along with the PERT chart, for each of the activity listed in the L1 schedule for WFGD along with



the delay attributable to Petitioner, Contractor and both with respect to each such activity.

- h) The penalty levied on the Contractor on account of delay in execution of works in terms of award of contract and money recovered therefrom with respect to WFGD and CMS.
- i) The detailed break up of IEDC in terms of 'Form P' of the 2019 Tariff Regulations as on installation of CMS as well as WFGD, along with reasons for claiming IEDC over and above the normative O&M allowed to the generating station under relevant regulations.

6. The Commission further directed the Respondents to file their replies on an affidavit, by 24.4.2024, with an advance copy to the Petitioner, and the Petitioner, to file its rejoinder, if any, on an affidavit by 13.5.2024. The Commission directed the parties to strictly comply with the above timelines and observed that no extension of time would be entertained.

7. The matter will be listed for further hearing on 6.6.2024.

By order of the Commission

sd/-
(V. Sreenivas)
Joint Chief (Law)



Email

KAZIMD HANIF

Additional information in compliance of ROP for hearing on 13.03.2024 i.r.o. Petition No. 361/MP/2023

From : KAZIMD HANIF <kazi.hanif@dvc.gov.in> Sat, Mar 30, 2024 12:40 PM
Subject : Additional information in compliance of ROP for hearing on 13.03.2024 i.r.o. Petition No. 361/MP/2023 1 attachment
To : seisbpcpl@gmail.com, cereg wbsedcl <cereg.wbsedcl@gmail.com>, JUVNLDELHI@GMAIL.COM, juvndelhi <juvndelhi@gmail.com>
Cc : SANJIV SHRIVASTAVA <sanjiv.shrivastava@dvc.gov.in>, MAHESHKUMAR SINGH <mahesh.singh@dvc.gov.in>, JOYDEEP MUKHERJEE <joydeep.mukherjee@dvc.gov.in>, ARUN PATRA <arun.patra@dvc.gov.in>, SUBRATA GANGULY <subrata.ganguly@dvc.gov.in>, SUBIRKUMAR SAHA <subir.saha@dvc.gov.in>, SAMIT MANDAL <samit.mandal@dvc.gov.in>, BODHAN NAYEK <bodhan.nayek@dvc.gov.in>, KOUSTAV GHOSH <koustav.ghosh@dvc.gov.in>, BIJOY MUKHERJEE <bijoy.mukherjee@dvc.gov.in>

Dear Sir(s),

Clarification /additional information along with supportive documents in compliance with directives in **Record of Proceedings (ROP)** for hearing on 13.03.2024 i.r.o. "**Petition No. 361/MP/2023** for determination of tariff on installation of various Emission Control Systems (ECS) in BTPS-A (1x500 MW)" is being submitted before Hon'ble CERC on 30.03.2024.

The subject ROP Compliance is attached herewith for your kind information please.

With regards,
Kazi Md Hanif,
Dy. General Manager (M),
Commercial Department,
DVC, Kolkata
Mob: 9831940849

 **BTPS_ECS_ROP Compliance (30.03.24).pdf**
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