BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO	<u> </u>
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IN THE MATTER OF

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of Kawas Gas Power Station (656.20 MW) for the period from 01.04.2024 to 31.03.2029.

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Summary of Issues: Kawas Gas Power Station (Kawas GPS) (656.20 MW)

(In compliance with CERC notice dated 07.06.2024)

The major highlights of the Kawas GPS (656.20 MW) petition for determination of tariff for period 01.04.2024 to 31.03.2029 are as follows: -

The present petition is being filed under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for revision of tariff of Kawas GPS (656.20 MW) for the period from 01.04.2024 to 31.03.2029 on projection basis for period 01.4.2024 to 31.03.2029.

The instant station is located at Surat, Gujarat and the station achieved COD on 01.11.1993

The power generated from instant station is being supplied as per MoP allocation and respective PPAs to customers including GUVNL (Gujarat), MSEDCL (Maharashtra), EDG (Electricity Deptt. of Goa), DNHDDPDCL (UT of DNHDD).

The tariff for instant station for the period from 01.04.2019 to 31.3.2024 was determined by the Hon'ble Commission vide order dated 04.06.2022 in Petition No. 488/GT/2020. The capital cost allowed for tariff determination included the projected additional capital expenditure admitted by the Hon'ble Commission after prudence check. The petitioner vide affidavit dated 19.11.2024 had filed a separate true up petition for the period 01.04.2019 to 31.03.2024 for revision of tariff in line with the applicable provisions of Tariff Regulations 2019.

The tariff of Kawas GPS for the tariff period 2024-29 based on projected expenditure for 2024-29 is annexed with the petition as per provisions of Regulation 9 of CERC Tariff Regulations 2024.

The projected Additional Capital Expenditure claimed on cash basis for the FY 2024-25, 2025-26, 2026-27, 2027-28, 2028-29 are Rs 3.33 Cr, Rs 31.26 Cr, Rs 13.60 Cr, Rs. 0.60 Cr & Rs 0.60 Cr. respectively amounting to total of Rs 49.39 Crores during the 2024-29 period. The same has been depicted year wise in Form 9A of the Appendix-I along with applicable regulations and justification for the claims. It is humbly requested to approve the projected Additional Capital expenditure during the period of 2024-29.

The Hon'ble Commission may please allow the claims of water charges and security expenses for the instant station as per projections, as claimed by the Petitioner in Form 3A of Appendix-I.

It is further mentioned that the Kawas GPS is a central government owned thermal power station which is of national importance. Safety and security of these nationally important infrastructure projects against any threat perception is a prime concern. The main security of these central government owned thermal power station is provided by the Central Industrial Security Force (CISF). CISF is a statutory body set up under an Act of the Parliament of India and a central armed police force in India under the Ministry of Home Affairs (MHA) whose primary mission is to provide security to large institutions like Kawas GPS. Deployment of the CISF is done as per the security threat perception, survey and as per the guidelines of MHA. In addition to the CISF, certain security is provided by other local and national agencies for critically less sensitive locations as per the plant specific needs. In view of this Hon'ble Commission may

please allow the claims of security expenses as per projections as submitted in Form 3A.

The petitioner pleads that the Hon'ble Commission may please allow the claims of Capital spares for the instant station at the time of true-up. The same has not been claimed in Form-3A in the instant petition.

It is submitted that the useful life of the Station is getting over in the 2024-29 period in the FY 24-25 and accordingly Hon'ble Commission may be pleased to allow recovery of Unrecovered Depreciation up to 31.03.2014 of Rs 1.12 Cr in terms of Hon'ble Appellate Tribunal Judgement dated 13.06.2007.

In the light of above submission and as per the Petition being filed by the Petitioner for revision of tariff of Kawas GPS (656.20 MW), The Hon'ble Commission may please approve tariff for the tariff period 2024-29 as per provision of Regulation 9 of Tariff Regulations 2024.

Petition No	:		
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TARIFF FILING FORMS (THERMAL)

FOR DETERMINATION OF TARIFF FOR

Kawas Gas Power Station

PETITION FOR DETERMINATION OF TARIFF FOR THE PERIOD 01.04.2024 TO 31.03.2029

PART-I

APPENDIX-I

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION	NO
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IN THE MATTER OF

: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of Kawas Gas Power Station (656.20 MW)) for the period from 01.04.2024 to 31.03.2029.

AND IN THE MATTER OF

Petitioner: NTPC Ltd.

NTPC Bhawan

Core-7, Scope Complex

7, Institutional Area, Lodhi Road

New Delhi-110 003.

Respondents

- Maharashtra State Electricity Distribution Co Ltd. (MSEDCL) Prakashgad, Bandra (East), Mumbai 400 051
- Gujarat Urja Vikas Nigam Ltd. (GUVNL) Vidyut Bhavan, Racecourse Vadodara – 390 007
- 3 Electricity Department Government of Goa (EDG) Vidyut Bhawan, Panaji, Goa
- 4 Dadra And Nagar Haveli and Daman and Diu Power Distribution Corporation Limited (DNHDDPDCL).
 1st & 2nd Floor, Vidyut Bhavan, Silvassa-396230, DNH, India

The Petitioner humbly states that:

- The Petitioner herein NTPC Ltd. (hereinafter referred to as 'Petitioner' or 'NTPC'), is a company incorporated under provisions of the Company Act, 1956 and a Government Company as defined under Section 2(45) of the Companies Act, 2013. Further, NTPC is a 'Generating Company' as defined under Section 2(28) of the Electricity Act, 2003.
- 2) In terms of Section 79(1)(a) of Electricity Act, 2003, the Hon'ble Commission has been vested with the functions to regulate the tariff of NTPC, being a Generating Company owned and controlled by the Central Government. The regulation of the tariff of NTPC is as provided under Section 79(1)(a) read with Section 61, 62 and 64 of the Electricity Act, 2003 and the Regulations notified by the Hon'ble Commission in exercise of powers under Section 178 read with Section 61 of the Electricity Act, 2003.
- The Petitioner is having power stations/ projects at different regions and places in the country. Kawas Gas Power Station (656.20 MW) (hereinafter referred to as "Kawas GPS") is one such station located in the State of Gujarat. The power generated from Kawas GPS is being supplied to the respondents herein above.
- 4) The Hon'ble Commission has notified the Central Electricity Regulatory Commission (Terms & Conditions of Tariff) Regulations, 2024 (hereinafter 'Tariff Regulations 2024') which came into force from 01.04.2024, specifying the terms & conditions and methodology of tariff determination for the period 01.04.2024 to 31.03.2029.
- *(2) In case of an existing generating station or unit thereof, or transmission system or element thereof, the application shall be made by the generating company or the transmission licensee, as the case may be, by 31.11 2024, based on admitted capital cost including additional capital expensitive alrea y admitted and incurre up to 31.3 2024 (either based on actual or projected additional capital expensitive) and

estimated additional capital expenditure for the respective years of the tariff period 2024-29 along with the true up petition for the period 2019-24 in accordance with the CERC (Terms and Conditions of Tariff) Regulations, 2019."

In terms of above, the Petitioner is filing the present petition for determination of tariff for Kawas GPS for the period from 01.04.2024 to 31.03.2029 as per the Tariff Regulations 2024.

- The tariff of the Kawas GPS for the tariff period 1.4.2019 to 31.3.2024 was determined by the Hon'ble Commission vide its order dated 04.06.2022 in Petition No. 488/GT/2020 in accordance with the CERC (Terms & Conditions of Tariff) Regulations 2019. The petitioner vide affidavit dated 19.11.2024 had filed a separate true up petition for the period 01.04.2019 to 31.03.2024 for revision of tariff in line with the applicable provisions of Tariff Regulations 2019.
- 7) It is submitted that Hon'ble Commission vide order dated 04.06.2022 in Petition no 488/GT/2020 has allowed a capital cost of Rs 1932.54 Cr. as on 31.03.2024 based on the admitted projected capital expenditure for the 2019-24 period. However, the actual closing capital cost as on 31.03.2024 has been worked out in the foresaid true-up petition as Rs. 1921.31 Cr based on the actual expenditure after truing up exercise for the period 2019-24. Accordingly, the opening capital cost as on 01.04.2024 has been considered as Rs. 1921.31 Cr in the instant petition. The Hon'ble Commission may be pleased to accordingly adopt this adjustment in the admitted capital cost as on 31.3.2024 and determine the tariff in the present petition for the period 2024-29.
- 8) The capital cost claimed in the instant petition is based on the opening capital cost as on 01.04.2024 considered as above and projected estimated capital expenditures claimed for the period 2024-29 under Regulation 19 and Regulation 24, 25 and 26 of the Tariff Regulations, 2024.
- 9) It is submitted that Gas power station is crucial for providing necessary support to the grid with the ever-increasing renewable energy (RE) penetration. The Govt. Of India has set

a target of achieving 500 GW of renewable energy by 2030. With this scale of renewable energy addition into the grid in coming years, balancing power and quick ramping up/down support becomes critical for grid stability. Gas-based plants could play a vital role in balancing the grid due to their faster ramp-up rate and quick start time. Gas-based projects also have other benefits, as they produce clean energy (less CO2 emission) and utilise less resources in terms of land and water. Renewable source of energy like Solar and wind are highly variable and intermittent in nature. Gas-based plant can provide a vital role in helping the grid stability and thus combination of gas-based generation with RE can cushion and flatten the variability upto a large scale.

Peak demand season further necessitates the availability of gas-based generation which the country has witnessed in last 3-4 years. Gas power stations are scheduled by grid controller as and when required. Due to high cost of natural gas and costly import, the PLF of gas stations are very low due to poor scheduling by the beneficiaries. Gas power plant capacity has stagnated in the country due to very low demand and high energy cost and most of the stations have already completed their useful life. Therefore, preservation of the existing gas-based plant become even more necessary through proper maintenance and upkeep.

It is further submitted that scheme of flexible generation as being proposed and implemented by the CEA, gas station's role become more crucial. Flexible generation and further proposed reduction in technical minimum of coal stations, the role of gas power station becomes vital for grid security. Kawas gas power station shall complete its extended life in 2024-25 and to maintain this vital assets of national importance, additional capital expenditure is necessary. The petitioner proposes to undertake replacement/upgradation of some critical items like battery bank, HP/LP bypass control/compressors/air washers etc. These assets were installed during the COD of the station and have already outlived their useful life and therefore needs replacement or upgradation with better components to enhance the life of the plant and efficiency. Due to very old age of the components, spare parts and support from OEM is not available which necessitates their replacement. The petitioner has given the details and justification with necessary

documentary support in the appendix-I. The Hon'ble Commission is requested to allow the same.

10) Unrecovered Depreciation till 31.03.2014

- i) The Hon'ble Appellate Tribunal vide Judgement dated 13.06.2007 on the issue of "Admissibility of depreciation upto 90% of the value of the assets" had allowed the unpaid portion of the depreciation (because of under recovery of fixed charges due to availability lower than NAPAF) after the plant has lived its designated useful life.
- With regard to the above, the Hon'ble Commission vide Order dated 24.03.2017 in Petition No 341/GT/2014 for the instant Station noted the following:
 - "74. The petitioner also submitted that in terms of the Tribunal's judgment dated 13.6.2007 on the issue of "Admissibility of depreciation upto 90% of the value of the assets", was considered and the Tribunal has observed as under:

"In a regulatory cost plus regime all costs have to be reimbursed. Depreciation amount up to 90% being a cost has to be allowed over the life of the plant. If due to underperformance in a particular year the appellant is not able to recover full depreciation allowed in that year and if this denial is forever, it will tantamount to a penalty. In a contract between the appellant and the beneficiaries, only levy of liquidated damages can be permitted. It will, therefore, be enough deterrent for the appellant if the depreciation is not allowed during the year of underperformance. However, the same cannot be denied forever and, therefore, it will be only fair to allow the unpaid portion of the depreciation after the plant has lived its designated useful life. In this view of the matter the CERC needs to examine this aspect as per the aforesaid observations."

75. Accordingly, the details in respect of this generating station as furnished by the petitioner is as under:

(Rs in lakh)

Year	Target Availability (%)	Annual Availability (%)	% of Fixed charge/ depreciation recovered* (%)	Annual Fixed Charges	Dep. Included in AFC	Disincentive	Dep. Unrecovered due to disincentive
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1993-94	62.79	60.94	98	14650	5613	293	112	

^{*} As per the Govt of India notification dated 30.4.1994 and order dated 4.7.2013 in petition no. 78/2001.

We have examined the matter. Since R&M of the generating station has been undertaken by the petitioner, and the generating station has extended its useful life by 10 years, the unrecovered depreciation shall be reconsidered by the generating station in terms of the judgment of the Tribunal once the plant has lived its designated useful life."

- iii) It is submitted that since the useful life of the Station is getting over in the 2024-29 period in the FY 24-25, the Petitioner in the instant Petition has claimed an amount of Rs 112 lakh, as part of AFC in the year FY 24-25, against the aforementioned Unrecovered Depreciation up to 31.03.2014, as per the Hon'ble Commission's direction. The Hon'ble Commission may be pleased to allow the same.
- The Petitioner further respectfully submits that as per Regulation 36(1)(6) of the Tariff Regulations 2024, the water charges, security expenses and capital spares consumed for Gas generating stations are to be allowed separately. The details in respect of water charges such as type of cooling water system, water consumption, rate of water charges as applicable for 2023-24 have been furnished below. Water charges claimed is based on projection basis year on year and same may be allowed in tariff based on the same for the 2024-29. In accordance with provision of the Regulations, the petitioner shall be furnishing the details of actual for the relevant year at the time of truing up and the same shall be subject to retrospective adjustment.

Description	Remarks
Type of Plant	Gas based thermal power station
Type of cooling water system	Closed Circuit Cooling System
Rate of Water charges	39.32/4.89 Rs/CuM
Total Water Charges	229.26 lacs

Similarly, the Petitioner is claiming the security expenses based on the estimated expenses for the period 2024-29, the same shall be subject to retrospective adjustment based on actuals at the time of truing up. In respect of capital spares consumption, it is submitted that the same shall be claimed at the time of true-up in terms of the proviso to the Regulation 36(1)(6) based on actual consumption of spares during the period 2024-29.

13) The Petitioner humbly submits that the pay/wage revision for the employees of the Petitioner will be due w.e.f. 01.01.2027. Further, the wage/pay revision of CISF and Kendriya Vidyalaya employees will also be due for revision during the tariff period 2024-29. Regulation-36(1)(8) of CERC (Terms & Conditions of Tariff) Regulations-2024 provides as below:

"In the case of a generating company owned by the Central or State Government, the impact on account of implementation of wage or pay revision shall be allowed at the time of truing up of tariff."

In accordance with the above said regulation, the Petitioner shall approach the Hon'ble Commission for allowing the impact of Pay/wage revision of employees of the Petitioner i.e. NTPC Limited, CISF and Kendriya Vidyalaya (wherever applicable) as additional O&M at the time of truing-up of tariff for the control period 2024-29. The Hon'ble Commission may be pleased to consider the impact of wage/pay revision as an additional impact on O&M and allow the same as additional O&M over and above the normative O&M.

14) It is submitted that the Petitioner has already paid the requisite filing fee vide Transaction ID 37c568eba62158b7b321 on 24.04 2024 for the year 2024-25 and the details of the same have been duly furnished to the Hon'ble Commission vide email dtd. 29.04.2024. For the subsequent years, it shall be paid as per the provisions of the CERC (Payment of Fees) Regulations, 2012 as amended. Further Regulation 94 (1) of Tariff Regulations 2024 provides that the application fee and publication expenses may be allowed to be recovered directly from the beneficiaries at the discretion of the Hon'ble Commission. Accordingly, it is prayed that Hon'ble Commission may be pleased to allow recover filing fee and publication fee directly from the beneficiaries.

- 15) The petitioner has accordingly calculated the tariff for 2024-29 period based on the above and the same is enclosed as Appendix-I to this petition.
- 16) It is submitted that the Petitioner has uploaded the copy of the Petition at CERC site (Saudamini), the access of which is available to all the Respondents mentioned herein above and therefore the petition stands served to all the respondents. Further the Petitioner has posted the Petition on the company website i.e. www.ntpc.co.in.
- 17) In accordance with the 'Conduct of Business Regulations 2023' of the Hon'ble Commission, the Petitioner shall, within 7 days after filing the tariff petition, publish a notice about such filing in at least two daily leading digital newspapers one in English language and another in any of the Indian languages, having wide circulation in each of the States and Union Territories where the beneficiaries are situated, as per Form 14 appended to these regulations. Subsequently, the Petitioner shall submit the proof of publications as soft copies of the publications under an affidavit through the e-filing portal of the Hon'ble Commission within one week from the date of publication. Further, the Petitioner shall also submit the detail of expenses incurred for publication of the notice along with the prayer for recovery of Publication Expenses as per Regulation-94 of CERC Tariff Regulations 2024.
- 18) It is submitted that the petitioner is filing this tariff petition subject to the outcome of its various appeals/ petitions pending before different courts. Besides, the petitions filed by NTPC for determination of capital base as on 31.03.2024 through true-up exercise are pending before the Hon'ble Commission and would take some time. The Petitioner, therefore, reserves its right to amend the tariff petition as per the outcome in such appeals/ petitions, if required.

Prayers

In the light of the above submissions, the Petitioner, therefore, prays that the Hon'ble Commission may be pleased to:

- Approve tariff of Kawas GPS (656.20 MW) for the tariff period 01.04.2024 to 31.03.2029.
- Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries.

III)	Allow the recovery of pay/wage revision as additional O&M over and above the
	normative O&M as and when wage revision is implemented.

iv) Pass any other order as it may deem fit in the circumstances mentioned above.

Petitioner

Noida

BEFORE THE CENTRAL ELECTRICITY REGULATORY COMMISSION NEW DELHI

PETITION NO.....

IN THE MATTER OF



: Petition Under Section 62 and 79 (1) (a) of the Electricity Act, 2003 read with Chapter-III of the Central Electricity Regulatory Commission (Conduct of Business) Regulations, 2023 and Chapter-3, Regulation-9 of Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 for approval of tariff of Kawas GPS (656.20 MW) for the period from 01.04.2024 to 31.03.2029.

NTPC Ltd.
 NTPC Bhawan
 Core-7, Scope Complex
 Institutional Area, Lodhi Road
 New Delhi-110 003

Respondents:

 Maharashtra State Electricity Distribution Co Ltd. (MSEDCL) Prakashgad, Bandra (East), Mumbai 400 051

and others

AFFIDAVIT

- I, Sameer Kumar Aggarwal, Son of Late Shri B K Aggarwal, aged about 51 years, working as Additional General Manager (Commercial) in the office of NTPC Limited, having its registered office at NTPC Bhawan, Scope Complex, Core-7, Lodhi Road, New Delhi-110003 do hereby solemnly affirm, and state as follows:
 - That the deponent is the Additional General Manager (Commercial) of the Petitioner NTPC Ltd. and is well conversant with the facts and the circumstances of the case and therefore competent to swear this affidavit.
 - 2. That the accompanying Petition under Section 62 and 79 (1) (a) of the Electricity Act, 2003, has been filed by my authorized representative under my

fk Aggand

instruction and the contents of the same are true and correct to the best of my knowledge and belief.

- That the contents of Para No 1 to 18 as mentioned in the Petition are true and correct based on my personal knowledge, belief and records maintained in the office.
- That the annexures annexed to the Petition are correct and true copies of the respective originals.
- That the Deponent has not filed any other Petition or Appeal before any other forum or court of law with respect to the subject matter of the dispute.

हुर रिग्रिया समीर अग्रवा**रिश्वलाद्दरर A**GGARWAL

अपर महाप्रबंधक (वाणिज्यिक) Addl. General Manager (Commercial) एन दी पी सी लिमिटेड/NTPC LIMITED EOC, A-8A, Sector-24, Noida-201 301 (U.P.)

Verification:

Verified at Noida on this 27th day of November 2024, that the contents of my above noted affidavit are true and correct to my knowledge and no part of it is false and nothing material has been concealed therefrom.

(Deponent)

समीर अग्रवाल/SAMEER AGGARWAL अपर महाप्रबंधक (वाणिज्यिक) Addl. General Manager (Commercial) एन टी पी सी लिमिटेड/NTPC LIMITED EOC. A-8A. Sector-24, Noida-201 301 (U.P.)

YOGENDRA SINGH NOTARY NOIDA B NAGAR (U.P.) INDU

Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-1	Summary of Turiff	-
ORM-1 (I)	Statement showing claimed capital cost	-
ORM-1 (II)	Statement showing Return on Equity	~
FORM-2	Plant Characteristics	×
ORM-3	Normative parameters considered for tariff computations	-
FORM-3A**	Statement showing O&M Expenses	-
FORM-3B**	Statement of Special Allowance	NA
ORM-4	Details of Foreign loans	NA
FORM- 4A	Details of Foreign Equity	NA
FORM-5	Abstract of Admitted Capital Cost for the existing Projects	·
ORM-5A**	Abstract of Claimed Capital Cost for the existing Projects	-
FORM- 6	Pinancial Package upto COD	NA
FORM-7	Details of Project Specific Loans	NA
ORM- 8	Details of Allocation of corporate loans to various projects	- 1
FORM-9A**	Summary of Statement of Additional Capitalisation claimed during the period	-
ORM-9 ##	Statement of Additional Capitalisation after COD	1
ORM-10	Financing of Additional Capitalisation	1
ORM-11	Calculation of Depreciation on original project cost	NA
ORM-12	Statement of Depreciation	1
ORM-12A**	Statement of Unrecovered Depreciation	~
Section (Section)	young the movement of the control of	-
FORM-13	Calculation of Weighted Average Rate of Interest on Actual Loans	
ORM-14	Draw Down Schedule for Calculation of IDC & Financing Charges Details / information to be submitted in respect of Fuel for computation of Energy	NA
ORM-15	Charges 1 Non APM Gas	
ORM-15A1	Details / information to be submitted in respect of Fuel for computation of Energy	×.
	Charges1 : Gas Details / information to be submitted in respect of Fuel for computation of Energy	-
FORM-15A2	Charges1 LNG	
FORM-15A3	Details / information to be submitted in respect of Fuel for computation of Energy	*
FORM- 15B	Charges : Naphtha Computation of Energy Charges	-
FORM- 16	Details of Limestone for Computation of Energy Charge Rate	NA
FORM-17	Details of Capital Spares	==
FORM-18	Non-Taniff Income	
FORM-19	Details of Water Charges	##
FORM-20	Details of Statutory Charges	##
L	ist of Supporting Forms / documents for tariff filing for Thermal Stations	-
Form No.	Title of Tariff Filing Forms (Thermal)	Tick
FORM-A FORM-B	Abstract of Capital Cost Estimates Break-up of Capital Cost for Coal Lignite based projects	NA NA
ORM-C	Break-up of Capital Cost for Gas/Liquid fuel based Projects	NA NA
ORM-D	Break-up of Construction/Supply/Service packages	NA
ORM-E	Details of variables , parameters , optional package etc. for New Project	NA
ORM-F	Details of cost over run	NA
ORM-G	Details of time over run	NA
- ODA - 11	Statement of Additional Capitalisation during end of the useful life	NA
ORM-H	Details of Assets De-capitalised during the period	##
A STATE OF THE PARTY OF THE PAR	Reconciliation of Capitalisation claimed vis-a-vis books of accounts	##
ORM-I ORM-J		***
ORM-I ORM-J	Statement showing details of items assets/works claimed under Exclusions	
ORM-I ORM-J ORM-K	Statement of Capital cost	1
ORM-I		1
ORM -J ORM -J ORM -K ORM-L ORM-M	Statement of Capital cost	_
ORM -I ORM -J ORM -K ORM-L	Statement of Capital cost Statement of Capital Woks in Progress	1
ORM-J ORM-J ORM-K ORM-L ORM-M	Statement of Capital Cost Statement of Capital Woks in Progress Calculation of Interest on Normative Loan Calculation of Interest on Working Capital Incidental Expenditure up to SCOD and up to Actual COD	1
ORM-I ORM-J ORM-K ORM-L ORM-M ORM-N ORM-O FORM-P	Statement of Capital Cost Statement of Capital Woks in Progress Calculation of Interest on Normative Loan Calculation of Interest on Working Capital Incidental Expenditure up to SCOD and up to Actual COD Expenditure under different packages up to SCOD and up to Actual COD	V V NA
ORM-I ORM-J ORM-K ORM-K ORM-L ORM-M ORM-N ORM-N ORM-O ORM-P ORM-Q ORM-R	Statement of Capital cost Statement of Capital Woks in Progress Calculation of Interest on Normative Loan Calculation of Interest on Working Capital Incidental Expenditure up to SCOD and up to Actual COD Expenditure under different packages up to SCOD and up to Actual COD Actual cash expenditure	V V NA NA
ORM-I ORM-J ORM-K ORM-L ORM-M ORM-N	Statement of Capital Cost Statement of Capital Woks in Progress Calculation of Interest on Normative Loan Calculation of Interest on Working Capital Incidental Expenditure up to SCOD and up to Actual COD Expenditure under different packages up to SCOD and up to Actual COD	1

	List of supporting documents for tariff filing for Thermal Stations				
. No.	Information / Document	Tick			
1	Certificate of incorporation, Certificate for Commencement of Business, Memorandum of Association, & Articles of Association (For New Station setup by a company making tariff application for the first time to CERC)	NA			
	A. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures on COD of the Station for the new station & for the relevant years.	NA			
2	B. Station wise and Corporate audited Balance Sheet and Profit & Loss Accounts with all the Schedules & annexures for the existing station for relevant years.	1			
3	Copies of relevant loan Agreements	NA			
4	Copies of the approval of Competent Authority for the Capital Cost and Financial package.	NA			
5	Copies of the Equity participation agreements and necessary approval for the foreign equity.	NA			
6	Copies of the BPSA/PPA with the beneficiaries, if any	NA			
	Detailed note giving reasons of cost and time over run, if applicable.				
	List of supporting documents to be submitted:				
7	a. Detailed Project Report				
a.	b. CPM Analysis	NA			
	c. PERT Chart and Bar Chart				
	d. Justification for cost and time Overrun				
3	Generating Company shall submit copy of Cost Audit Report along with cost accounting records, cost details, statements, schedules etc. for the Generating Unit wise /stage wise/Station wise/ and subsequently consolidated at Company level as submitted to the Govt. of India for first two years i.e. 2019-20 and 2020-21 at the time of mid-term true-up in 2021-22 and for balance period of tariff period 2019-24 at the time of final true-up in 2024-25. In case of initial tariff filing the latest available Cost Audit Report should be furnished.	NA			
9	Any other relevant information, (Please specify)	NA			
10	Reconciliation with Balance sheet of any actual additional capitalization and amongst stages of a generating station	NA			
11	BBMB is maintaining the records as per the relevant applicable Acts. Formats specified herein may not be suitable to the available information with BBMB. BBMB may modify the formats suitably as per available information to them for submission of required information for tariff purpose.	NA			

-	ACTURA URBE-ARID TO L		nmary of T	arın					
	Name of the Petitioner:	NTPC Limit							
	Name of the Generating Station:	-	Power Station						
	Place (Region/District/State):	Western Re	gion/Surat/ Gu	arat					
	Ü						Amount	in Rs. Lakb	
S. No.	Particulars	Unit	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	
1	2	3	4	5	6	7	3	9	
1.1	Depreciation	Rs Lakh	7,184.50	1,927.06	1,356.64	2,018.79	639.00	54.00	
1.2	Interest on Loan	Rs Lakh	0.00	0.00	25.29	25.28	3.5		
1.3	Return on Equity	Rs Lakh	16,264.08	16,304.90	10,910.33	11,036.72	11,076.73	11,080.11	
1.4	Interest on Working Capital	Rs Lakh	33,115.81	13,260.00	13,225.51	13,289.93	13,327.51	13,384.30	
1.5	O&M Expenses	Ra Lakh	15,516.09	14233,70	15094.05	16003.68	16978.04	18019.6	
1.6	Special Allowance (If applicable)	Rs Lakh							
1.7	Unrecovered Depreciation	Rs. Lakh		112.00					
	Total	Rs Lakh	72080.48	45837.66	40811.82	42374.42	42021.28	42538.0	
2.1	Landed Fuel Cost (Gas-APM)	R±1000SC M		0.00					
	(%) of Fuel Quantity	(%)		0.00%					
2.2	Landed Fuel Cost (Gas-Non APM)	Rs/1000SC M		53594.47					
	(%) of Fuel Quantity	(%)				56.77%			
2.3	Landed Fuel Cost (RLNG)	Rs/1000SC M		47177:49					
	(%) of Fuel Quantity	(%)				43.1896			
2.4	Landed Fuel Cost (Naphtha)	Rs.KL		03880 33					
	(%) of Fuel Quantity	(%)				0.05%			
2.5	Energy Charge Rate (APM Gas-CC) ex-bus (Paise kWh)	P/Kwh				0.00			
2.6	Energy Charge Rate (Gas-Non APM-CC) ex- bus (Passe/kWh)	P/Kwh				1179.54			
2.7	Energy Charge Rate (RLNG-CC) ex-bus (Paise kWh)	P/Kwh		1030.78					
2.8	Energy Charge Rate (Naphtha-CC) ex-bus (Passe/kWh)	P/Kuh		1990.23					
2.9	Energy Charge Rate (APM Gas-OC) en-bus (Passe kWh)	P/Kuh		0.00					
3	Energy Charge Rate (Gas-NonAPM-OC) ex-bus (Paise kWh)	P/Kwh				1701.30			
3.1	Energy Charge Rate (RLNG-OC) ex-bus (Paise kWh)	P/Kwh				1486,74			
3.2	Energy Charge Rate (Naphtha-OC) ex-bus (Paise/kWh)	P/Kwh				2870.59			

	Name of the Petitioner:	NTPC Limite	d			
	Name of the Generating Station:	Kawas Gas P	ower Station			
			name of accessoration		Amount	in Rs. Lakh
	Statement showing	claimed cap	ital cost – (A	(+B)		
No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	1,92,131.14	1,92,464.14	1,95,590.35	1,96,950.35	1,97,010.35
2	Add: Addition during the year/period	333.00	3,126.21	1,360.00	60.00	60.00
3	Less: De-capitalisation during the year/period	3		(39)		121
4	Less: Reversal during the year / period	21	25	120	- 02	9
5	Add: Discharges during the year/ period		-	(90)	(±	-
6	Closing Capital Cost	1,92,464.14	1,95,590.35	1,96,950.35	1,97,010.35	1,97,070.35
7	Average Capital Cost	1,92,297.64	1,94,027.24	1,96,270.35	1,96,980.35	1,97,040.35
		- Later Assessment				
	Statement showing claimed cap	ital cost eligib	le for RoE a	at normal ra	te (A)	
No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
1	Opening Capital Cost	190297.71	190630.71	193756.92	195116.92	195176.9
2	Add: Addition during the year / period	333.00	3126.21	1360.00	60.00	60.0
3	Less: De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.0
4	Less: Reversal during the year / period	0.00	0.00	0.00	0.00	0.0
5	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.0
6	Closing Capital Cost	190630.71	193756.92	195116.92	195176.92	195236.9
7	Average Capital Cost	190464.21	192193.81	194436.92	195146.92	195206.9
				1		
State	ment showing claimed capital cost eligible	for RoE at or	ne year MCI	LR + 350 bp	s subject to	ceiling of
		14.00% (B)				
No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	-4	5	6	7
1	Opening Capital Cost	1833.43	1833.43	1833.43	1833.43	1833.4
2	Add: Addition during the year / period	0.00		0.00	0.00	0.0
3	Less: De-capitalisation during the year / period	0.00	- 303300	0.00	0.00	0.0
	Less: Reversal during the year / period	0.00		0.00	0.00	0.0
4	Add: Discharges during the year / period	0.00	0.00	0.00	0.00	0.0
4 5		1833.43	1833,43	1833.43	1833.43	1833.4
4	Closing Capital Cost Average Capital Cost	1833.43	1833.43	1833.43	1833.43	1833.4

	PART-I
	FORM- 1(IIA)
Name of the Petitioner:	NTPC Limited
Name of the Generating Station:	Kawas Gas Power Station

Statement showing Return on Equity at Normal Rate

					Amount i	in Rs. Lakhs
S. No.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7
	Return on Equity at Normal Rate					
1	Gross Opening Equity (Normal)	86,330.20	86,430.10	87,367.96	87,775.96	87,793.96
2	Less: Adjustment in Opening Equity	2	29,240.88	29,240.88	29,240.88	29,240.88
3	Adjustment during the year	2	¥	=	22	:
4	Net Opening Equity (Normal)	86,330.20	57,189.21	58,127.08	58,535.08	58,553.08
5	Add: Increase in equity due to addition during the year / period	99.90	937.86	408.00	18.00	18.00
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00
10	Net closing Equity (Normal)	86,430.10	58,127.08	58,535.08	58,553.08	58,571.08
11	Average Equity (Normal)	86,380.15	57,658.14	58,331.08	58,544.08	58,562.08
12	Rate of ROE (%)	18.782	18.782	18.782	18.782	18.782
13	Total ROE	16,223.92	10,829.35	10,955.74	10,995.75	10,999.13

(Petitioner)

	Name of the Petitioner:	NTPC Limited Kawas Gas Power Station									
	Name of the Generating Station:										
	Statement showing Return on	Equity at No	rmal Rate								
					Amount in I	ts. Lakh					
. No.	Particulars	2019-20	2020-21	2021-22	2022-23	2023-24					
1	2	3	4	5	6	7					
	Statement showing claimed capital cost eligible for RoE at one year MCLR + 350 bps subject to ceiling of										
	14.00%	70		0.574							
1	Gross Opening Equity (Normal)	550.03	550.03	550.03	550.03	550.03					
2	Less: Adjustment in Opening Equity	0.00	0.00	0.00	0.00	0.00					
3	Adjustment during the year	0.00	0.00	0.00	0.00	0.00					
4	Net Opening Equity (Normal)	550.03	550.03	550.03	550.03	550.03					
5	Add: Increase in equity due to addition during the year / period	0.00	0.00	0.00	0.00	0.00					
7	Less: Decrease due to De-capitalisation during the year / period	0.00	0.00	0.00	0.00	0.00					
8	Less: Decrease due to reversal during the year / period	0.00	0.00	0.00	0.00	0.00					
9	Add: Increase due to discharges during the year / period	0.00	0.00	0.00	0.00	0.00					
10	Net closing Equity (Normal)	550.03	550.03	550.03	550.03	550.03					
11	Average Equity (Normal)	550.03	550.03	550.03	550.03	550.03					
	Rate of ROE (linked to SBI MCLR +350 basis point) (%)	12.15	12.15	12.15	12.15	12.15					
12	Grossed up Rate of ROE with applicable tax rate (%)	14.723	14.723	14.723	14.723	14.723					
13	Total ROE	80.98	80.98	80.98	80.98	80.98					

(Petitioner)

Plant Cha	aracteristic	cs				PART-I FORM-2
Name of the Petitioner	NTPC Ltd.					
Name of the Generating Station	Kawas GP	S				
Nume of the denerating station	itanao or					
Unit(s)/Block(s)/Parameters	GT-1A	GT-1B	GT-2A	GT-2B	ST-1	St-2
Installed Capacity (MW)	106	106			116.1	
Schedule COD as per Investment Approval	01.06.1992	01.08.1992	01.09.1992	01.11.1992	01.11.1993	01.09.1993
Actual COD /Date of Taken Over (as applicable)						
Pit Head or Non Pit Head						
Name of the Boiler Manufacture						
Name of Turbine Generator Manufacture	GE	GE	GE	GE	GE	GE
Main Steams Pressure at Turbine inlet (kg/Cm ²) abs ¹ .						
Main Steam Temperature at Turbine inlet (°C) *						
Reheat Steam Pressure at Turbine inlet (kg/Cm ^{2) 1}	1					
Reheat Steam Temperature at Turbine inlet (°C) 1	1					
Main Steam flow at Turbine inlet under MCR condition (tons						
/hr) ²						
Main Steam flow at Turbine inlet under VWO condition (tons						
/hr)²	[
Unit Gross electrical output under MCR /Rated condition						
(MW) ²						
Unit Gross electrical output under VWO condition (MW) ²	t					
Guaranteed Design Gross Turbine Cycle Heat Rate	į.					
(kCal/kWh)3						
Conditions on which design turbine cycle heat rate						
guaranteed			-	220		
% MCR			1	IA		
% MCR % Makeup Water Consumption						
Design Capacity of Make up Water System						
Design Capacity of Inlet Cooling System						
Design Cooling Water Temperature (°C)						
Back Pressure						
Steam flow at super heater outlet under BMCR condition (tons/hr)						
Steam Pressure at super heater outlet under	1					
BMCR condition) (kg/Cm ²⁾						
Steam Temperature at super heater outlet under						
BMCR condition (°C)	1					
Steam Temperature at Reheater outlet at BMCR condition (°C)	1					
Design / Guaranteed Boiler Efficiency (%) ⁴						
11 (14 C) Fill 1 1 (14 C)						
Design Fuel with and without Blending of domestic/imported coal						
Type of Cooling Tower			N	DCT		
Type of cooling system ⁵			Closed cir	cuit Cooling		
Type of Boiler Feed Pump ⁶			Motor	Driven		
Fuel Details ⁷						
-Primary Fuel			Natu	ral Gas		-
-Secondary Fuel			1000000			
-Alternate Fuels						
Special Features/Site Specific Features ⁸						
Special Technological Features ⁵						
Environmental Regulation related features ¹⁰						
Any other special features						

Petitioner

PART-I FORM- 3

Normative parameters considered for tariff computations

NTPC Limited Name of the Petitioner: Name of the Generating Station: Kawas Gas Power Station (Year Ending March) Existing Particulars Unit 2024-25 2025-26 2026-27 2027-28 2028-29 2023-24 2 6 8

Base Rate of Return on Equity 96 15.50 15.50 15.50 15.50 15.50 15.50 Rate of Return on Equity on Add. Cap beyond original scope of work including add cap due to 06 12.15 12.15 12.15 12.15 12.15 change in law. Force majeure Effective Tax Rate 96 17.4720 17,4720 17,4720 17,4720 17,4720 17,4720 85.00 85 00 85.00 85 00 85.00 85.00 Target Availability 96 Peak Hours 85.00 85.00 85.00 85.00 85.00 85.00 Off-Peak Hours 85.00 85.00 85.00 85.00 85.00 85.00 8- Average Monthly Frequency Response 0-1 Performance ## Auxiliary Energy Consumption 96 2.75 2.75 2.75 2.75 2.75 2.75 Gross Station Heat Rate kCal/kWh 2050 00 2050.00 2050.00 2050.00 2050.00 2050.00 Specific Fuel Oil Consumption ml/kWh Cost of Coal/Lignite for WC1 in Days Cost of Main Secondary Fuel Oil for WC1 in Months 15 Fuel Cost for WC2 30 15 15 15 15 in days 15 15 Liquid Fuel Stock for WC2 15 15 15 15 in days 22.32 Rs lakh/MW 20 19 18.18 19 14 20:14 21.20 O&M Expenses % of O&M Maintenance Spares for WC 30.00 30.00 30.00 30.00 30.00 30.00 Receivables for WC 45 45 45 45 in Days 45 45 Storage capacity of Primary fuel# MT 11.90 11.90 SBI 1 Year MCLR plus 350 basis point3 12.00 11.90 11.90 11.90 Blending ratio of domestic coal/imported coal

^{**} Rate of Return on Add - cap beyong original scope

^{\$\$} Additional RoE due to better ramp rate would be claimed at the time of true-up or as per guidelines to be issued

⁼⁼ To be submitted at the time of truing up based on RPC certification.

					Part-I FORM-3A
	Calculation of O&	M Evnenses		ADDIT	IONAL FORM
of the Company :	NTPC Limited	VI LAPCHSCS			
of the Power Station :	Kawas Gas Power	Station			
		111		Amou	nt in Rs. Lakhs
Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
2	3	4	-5	7	8
O&M expenses under Reg.36(1)(1)					
Normative	11929.72	12559.67	13215.87	13911.44	14646.38
O&M expenses under Reg.36(1)(6)				1	
Water Charges *	261.29	287.42	316.16	347.78	382.55
Secutiry expenses**	2042.69	2246.96	2471.65	2718.82	2990.70
Capital Spares %%					
	Particulars 2 O&M expenses under Reg.36(1)(1) Normative O&M expenses under Reg.36(1)(6) Water Charges * Secutivy expenses**	of the Company: NTPC Limited Kawas Gas Power Particulars 2 2 3 O&M expenses under Reg.36(1)(1) Normative 11929.72 O&M expenses under Reg.36(1)(6) Water Charges * 2042.69	Normative Particulars 2024-25 2025-26	NTPC Limited of the Power Station : Kawas Gas Power Station Particulars 2024-25 2025-26 2026-27 2 3 4 5 O&M expenses under Reg.36(1)(1) 11929.72 12559.67 13215.87 O&M expenses under Reg.36(1)(6) 261.29 287.42 316.16 Secutiry expenses** 2042.69 2246.96 2471.65	Calculation of O&M Expenses of the Company: NTPC Limited Kawas Gas Power Station Amou Particulars 2024-25 2025-26 2026-27 2027-28 D&M expenses under Reg.36(1)(1) 11929.72 12559.67 13215.87 13911.44 O&M expenses under Reg.36(1)(6) 261.29 287.42 316.16 347.78 Secutiry expenses** 2042.69 2246.96 2471.65 2718.82

14233.70

15094.05

16003.68

16978.04

Total O&M Expenses

Petitioner

18019.64

^{*} Water charges claimed on projection basis subject to true up based on 20 % escalation from 2023-24 and 10% escalation in subsequent year in anticipation of increase in generation.

^{**} Security expenses claimed on projection basis subject to true up based on 10% escalation from 2023-24

^{%%} Capital spares details shall be given at the time of true up

			PART 1 FORM- 5
Abstract	of Admitted Capital Cost	for the existing Projects	TOKII- 3
Name of the Company :	NTPC Limited	 	
Name of the Power Station :	Kawas Gas Power Station		
			Amount in Rs Lakh
Last date of order of Commission	on for the project	Date (DD-MM-YYYY)	04-06-2022
Reference of petition no. in wh	ich the above order was passed	Petition no.	488/GT/2020
	itted and /or considered) as on the above order by the Commission:(0.5500 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.000 (1.	
Capital cost			193254.19
Amount of un-discharged liabili forming part of admitted capita	10000000000000000000000000000000000000		
Amount of un-discharged liabili admitted capital cost (but not fo cost being allowed on cash basis	orming part of admitted capital		
Gross Normative Debt		(Rs. in lakh)	105838.42
Cumulative Repayment			105838.42
Net Normative Debt			0.00
Normative Equity			87415.77
Cumulative Depreciation			171428.79
		1	733.02

PART FORM- 5A Abstract of Admitted Capital Cost for the existing Projects NTPC Limited Name of the Company: Name of the Power Station: Kawas Gas Power Station Amount in Rs Lakh Reference of Final True up petition Affidavit dated Capital Cost allowed in the Main 2019-24 Tariff Petition no. 488/GT/2020 vide order dt 04 06 2022 as on 31 3 24 1,93,254.19 Adjustment as per Para (7) of this petition -1.123.05Following details as considered by the Petitioner as on the last date of the period for which final true-up tariff is claimed: Capital cost as on 01.04.2024 1,92,131.14 Amount of un-discharged liabilities included in above (& forming part of admitted capital cost) Amount of un-discharged liabilities corresponding to above admitted capital cost (but not forming part of admitted capital cost being allowed on cash basis) Gross Normative Debt 1.05,250.91 (Rs. in lakh) Cumulative Repayment 1.05,250.91 Net Normative Debt 0.00 Normative Equity 86.880.23 Cumulative Depreciation 170501 63 Freehold land 733.02 (Petitioner)

^{*}Additional form

PART-I FORM- 9A Additional Form

Year wise Statement of Additional Capitalisation after COD

Name of the Petitioner	NTPC Limited
Name of the Generating Station	Kawas Gas Power Station
COD	01-11-1993
For Financial Year	2024-29 (Summary)
I mykola i na Anthan (MT) u sistem ma.	Amount in Rs Lakh

			ACE C	laimed (Proje	ction)			Admitted Cost
Sl. No.	Head of Work /Equipment	2024-25	2025-26	2026-27	2027-28	2028-29	Regulation under which claimed	by the Commission, if any
- 1	2	2 3 4 5 6		7	8	9		
A.	For assets eligible for normal RoE							
1	Battery banks supply, installation and comissioning	100.00	300.00					
2	Air conditioning system	23.00	22.00					
3	HT/LT breakers	60.00	60.00	60.00	60.00	60.00		
4	Replacement of Reciprocating Air Compressors	100.00			1			
5	HP/LP Bypass system Upgradation		200.00	100.00				
6	GE OWS/HMI Upgradation		2000.00	1,200.00			As per relevant	
7	LT Feeder panel for colony switchgear		75.00				regualtions given in	
8	Replacement of Air Washer Units (DVM)		178.57				Form-9	
9	Drinking water pipe line replacement		150.00					
10	Replacement of Reciprocating Air Compressors		110.64					
11	HCL Tank		30.00				1	
12	Replacement of pump for collection pit for separation of storm water from effluent.	50.00			V-2000			
	Total (A)	333.00	3,126.21	1,360.00	60.00	60.00		
В.	For assets eligible for RoE at One year MCLR+350 bps	subject to ceil	ing of 14.00%					
1								
2		Ī		i				
	Total (B)	2 1	- 5		5.	E.3		
Total.	Add. Cap. Claimed (A+B)	333.00	3,126.21	1,360.00	60.00	60.00	1	

(Petitioner)

-					-			PAR
_				52	er uiten Statemer	of of Astronomy Co	aptitalisation after COD	FORM
	of the Patitioner			NTPC Limited	ar wroad anagement	it of Hadisquist C	sprawacow sign coo	
	of the Generating Station			Mawas Gas Fow	er Staffon			
OD	or any opportunity quadran			01-11-1990	91. 94411-051			
or F	nanolai Year			2024-25	11		w :	
_	Contraction of the Contraction o					-		mount in As Lat
H.			United States of the Control of the	Claimed (Projects		Regulations under which	LECTION .	Admitted Cost b the Commission
	Head of Work Æguipment	Account been as per IESANF	Un-discharged Liability included in on: 3	Cash basis	IDC included in on. If	clamed	Justification	any
1	.2		4.5	8= (5.4)	- 8	7	8:	
A.	For service digible for normal RoII							
n-			1	1	Ī .		1	
3	Battery backs supply/installation and comissioning	100.00	9 0	100.30	1347	:25(2)(c)	It is submitted that the bettery barks installed at NTPC kawas have become very old and have builting their useful life. These systems were commissioned and put to use at the time of COC of the station and the station has commissed more than 10 years of continuous approache. With the passage of time and aging, these equipmental associal have become and aging, these equipmental associal have become with these cattery barks and all a baid ahape. These systems have already completed their useful life and have become out and devotes. Problems are occurring frequently with these battery barks provide crucial back up during power failures and electrical frust and true prevents camage to crutical place appropriate and provide system redundancy. Since battery barks have become and and obscissals, frequent repair and maintenance is being resorted which is effecting the plant relationly and affecting sustained operation running generability. Therefore, these battery barks needs to be repaired and maintenance in the provide commission is requested to allow the experience of any observations. Therefore, these battery barks needs to be repaired and affecting experience of the power requirement. The relevant documents are attached as Annexus-A.	
	Air conditioning system	21.00	,*)	23.00		25(Z)(C)	As pringly out above that to apply lead these are conditioning systems have already complained than the basis, to be molaced. The are conditioning system installed at various places at EFFC Kawas are very out and have become conditioning system. Also, these systems have become earlier poor a portional surviver for upseep of an analysis obtained system. Also, these systems have become earlier than the passage of time and not able to maintain required amounted throughout and the temperature remain on higher add the they affecting plant operation and discontining to plant positions on their throughout working in their. Therefore, air conditioning system has to be represent with new system in phoses manner for cooling sequentials. The plant and building premises. The Herbits CERC a requisited to allow the same.	
3	HTS,T breakers	60:00	93	\$8.00)#3	25(2)(c)	HTALT breakers have become one and boxesets and frequent problem of jamming and breaker lock but is being faced which is affecting the system reliability. As these brookers are very aid and have outlived their weeful if e and OEM augusts is not available, hence these breakers have to be replaced with new breakers to keeping the machine in healthy condition for sustained plant operation. The Hontoe commission may please allow the same.	
	Replacement of Reciprocating Air Compressors	100.00	84	100.00)(4)	2%2)(c)	Currently installed air compressions have become very old and have compristed to useful life. Modulett maintainunus and repair is required to keep it in working condition. Since compressions are very old and commissioned at the time of COD, they have sinally sufficient bent useful life and head proper replacement, for reliable paid operation, producered of again parts in a tig challenge and efficiency has also reduced. It is proposed to replace these did and obsciets compressions within the very efficient script compressions which is needed for proper and university place and obsciets for the foreign of the proper and university that operation of Kaway Gos place. The Horthas Commission is required to allow the same	
0	Replacement of pump for collection pit for separation of storm water from effluent.	50.00	83	50.00	38	25(2)(0)	It is submitted that pumps installed for collection of (album water are collected) have become sid and due to aging problem, it needs to be replaced with new pumps. The Handile commission is requested to side the same.	
	Sub Tostal A	332.00	(7)	533.00				
8	For assets digible for Roll at One year MCLR+368 a	ips orbject to exilin	of 14,00%					
1								
	But Total B	0.00	.6.00	0.00	0.00			
ate!	Add. Cap. Claimed A+B	333.00	0.00	333.00	0.00			

								FAR
					O STREET STREET	Linear Control of the	0133UNUSUPAIA NO 1	FOR
				Χœ	er wise Statement	t of Additional Capit	alisation after COO	
	of the Patitioner			MTPC Limited			AND THE BOOK HOUSE A.	
OG	of the Generating Station			Mawas Gas Power 01-11-1985	- Blation			
	anolal Year			2025-26				
UE PIN	ditosi vinir			Anta-te				Amount in Rs L
B .			ACE	Claimed (Projected	n	Regulations under		Admitted Cost by
No.	Hoas of Work Eq. ipment	Accrual business per GAVP	Un-discharged Lidbitly included in ook 3	Cash tass	CDC included in GR. 3	which claimed	Authoritism	Commission, If a
1	. 2		4	6= (3-4)		7	8.	
0.1	For assets eligible for surrouf Roll.			demonstration		-	***	
4		-		-	·		Particular strength on a Commission of the Commi	
1	HPLP Bycass system Oppraction	200 00	8	200.00	*	2542(41)	HPLP bypeas system. Covers and instrumentation (UBI) pared and have become obsciste and no support is available from CBA Considerance setflicate from CBAs statistics as Annexists . Therefore, these bid card is to be upgraded with new cards to before operational control of HPLP bypeas ayearn thus ensuring reliability of the system. The Horizon commission is required to allow the same.	
2	GE OWSHAM Upgradulon	2000.00	89	2,000.00	¥	25(2)(1)	It is submitted that and GE CAYS HM is based on whitow 7 version, which has been declared absolute from Microsoft (CEM) and therefore no support is available from CEM. Obselved on certificate is placeful as Assessment. Therefore, partier could be supported with the latest version. The Harrise Commission is requested to object the same.	
ì	Sattery barries supply installation and communiting	300.00	24	300.00		25(2)(0)	As per juitification given in form 6: 34-25	
	LT Feeder panel for colony switzingsar	75.00	S	711-011	49	262)(0)	The LT feeder pane the collect with these books and earlied to useful the Day to aging, frequent problems, der being faced like implings and faults, inventore LT feeder penel reside to be expliced with new one. Those system were continuously at the time of CIDS of the pixel and have almody completed more than 30 years of service. These systems few a creaty specially beyond their justful the and needs replacement. The feedbe commission is requested to good the service of the pixel of CIDS of the pixel and have presented the pixel of the feedbe commission is requested to justice the service.	
8	HTILT SHakers	(60.20)	- 3	00.00	+	292ini	As per justification given in form 0: 24-25	
•	Represented at Air Waster Units (DVM)	178.57	s	\$79.53	7.	25(2)(r)	It is submitted that an weather units have become very old and obstates and frequent problem is being faced due to non- availability of scarce; and these air weather units have outlined that useful the. These air weathers were commissioned at time of COD and aready is their than useful the Because of aging issue, were until tear with the passage of time, the air weathers are not weising efficiently and lamperature are maintening on higher side. As are wisher units are official to maintening pooler temperature all official point excepting, these systems need to be respaced with haw one for efficient print unitating plant coveration. The Herithia Continuation is very estated by alleys the same.	
7	Replacement of Recordating Ar Compressors.	110.94	- 3	11054	20	25(2)(c)	As per justification given in form () 18425	
	HCL tark (PRP)	10.00	S	bu oit		262)(0)	It is submitted that HCL tank used for strong and in DM plant is of metals; type and has become nysted due to very old age and it has cultived to useful file, therfore it is proposed to replace this tank with FRP (fore miniforced grass) tank so gate is suitain continued plant operation. FRP tank has high strength and intertness to chemical and therefore suitable for strong HCL. The northic CERC is regulated to allow the Same.	
8 3	Containing water pipe the replacement	150.06	es.	152.00	7.0	25(2)(t)	Driving water pipe into are very did and have become named. Prequent leave and consequent reper work is being immediate to maintain pipeline for driving water requirement. These pipelines were said during CCD of the plant and have completed their said that is to agree, where and have and commissor, makes an being faced by the politiment in the form of designation in apply of driving water for the employees and wooders. Driving water is a because of the employee in the proposed as the proposed as the proposed of reliable driving water to be entirely whether the proposed is replaced of reliable driving water facilities to be exployed to other working water places to be a to be commented or other working water appropriate with the water and other proposed as the proposed as replaced or other water.	
10	Alf conditioning system:	22.00		22.00		25(2)(1)	As per justification given in form 9 S4-25	
	Sutt Toefal A.	3,128.21	33	3,126.21	**			
В	For marcia eligible for Ball or One year MCLR-1990 hyp	subject to miling of 14.	8014			-	<u>*************************************</u>	
1		N. C.						
11.	Sun Total B	9	14					
	eas zouse:	-	-					
reduct t	dd, Cap. Claimed A+E	2128.21	0.00	3128.21	0.80			

							14	PART-	
								FORM-	
			Year wise Stateme	nt of Additional C	apitalisation afte	r COD	**		
lam	e of the Petitioner			NTPC Limited	A SHITTH CONTRACTOR INC.				
(am	of the Generating Station			Kawas Gas Powe	er Station				
COD				01-11-1993					
or F	inancial Year			2026-27					
	MILEONIA SECO						X	Amount in Rs Lak	
SL			ACE	Claimed (Projecte	d)	Regulations		Admitted Cost by	
No.	Head of Work /Equipment	Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	under which claimed	Justification	the Commission, if	
1	2	3	4	5= (3-4)	6	7	8	9	
A.	For assets eligible for normal RoE						West of the second seco		
1	HP/LP Bypass system Upgradation	100.00	3.7	100.00	35	25(2)(c)	As per justification given in form 9_25-28.	11	
2	GE OWS/HMI Upgradation	1200.00	//5	1,200.00	25	25(2)(c)	As per justification given in form 9_25-26.		
	HT/LT breakers	60.00	133	60.00		25(2)(c)	As per justification given in form 9_24-25		
	Sub Toatal A	1,360.00	13	1,360.00	2				
В	For assets sligible for RoE at One year MCLR+350 bps subject to ceiling of 14.00%								
1									
	Sub Total B	·	3.4		8				
Total	Add. Cap. Claimed A+B	1360.00	0.00	1360.00	0.00				

							4	PART-
								FORM-9
		-17	Year wise Statemen	t of Additional Ca	spitalisation afte	COD		W 5440
	e of the Petitioner			NTPC Limited	to a contract of	rate cost.		
Nam	e of the Generating Station			Kawas Gas Pow	er Station			
COD	₩ <u>—</u>		3	01-11-1993				
or F	inancial Year			2027-28				v
C-0-97.	0 0175014 45404						3	Amount in Rs Lakh
SI			ACE C	laimed (Projecte	d)	Regulations		Admitted Cost by
No.	Head of Work /Equipment	of Work /Equipment Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	under which claimed	Justification	the Commission, if
1	2	3	4	5= (3-4)	6	7	8	9
A.	For assets eligible for normal RoE							A.
1	HT/LT breakers	60.00		60.00		25(2)(c)	As per justification given in form 9_24-25	
	Sub Toatal A	60.00	92	60.00	*			
В	For assets eligible for RoE at One year M	ICLR+350 bps subject to ceilin	g of 14.00%					
1								
	Sub Total B	255	62	9	8.			
Total	Add. Cap. Claimed A+B	60.00	0.00	60.00	0.00			

								PART-
								FORM-
		-117	Year wise Stateme	nt of Additional C	apitalisation afte	r COD		-11 AGGGGWG
ame	of the Petitioner			NTPC Limited	P. P. LEWIS CO. P. C. L.			
	of the Generating Station			Kawas Gas Powe 01-11-1993	er Station			
TAPLE 1								
or F	inancial Year		N.	2028-29			mp.	nev zananem
	MITCHALL 4 SACA			300000				Amount in Rs Lak
SL			ACE	Claimed (Projected)		Regulations		Admitted Cost by
No.		Accrual basis as per IGAAP	Un-discharged Liability included in col. 3	Cash basis	IDC included in col. 3	under which claimed	Justification	the Commission, it
1	2	3	4	5= (3-4)	6	7	8	9
A.	For assets eligible for normal RoE						1.0	
1	HT/LT breakers	60.00	3.7	60.00	*	25(2)(c)	As per justification given in form 9_24-25	
	Sub Toatal A	60.00	35	60.00	5 .			
В	For assets eligible for RoE at One year MC	LR+350 bps subject to ceiling	of 14,00%					
1								
100	Sub Total B	-	14		*			
	Manager see a company	1 1000000		eggete wite	2 per 2 chi			-
otal Add. Cap. Claimed A+B 60.00 0.00		60.00	0.00					

Name of the Petitioner				NTPC Li	mited					
Name of the Generating Station					as Power S	Station				
Date of Commercial Operati	on			01-11-199	3					
								Amount i	n Rs Lakh	
Financial Year (Starting from			Actual					Admitted		
COD)1	2024-25	2025-26	2026-27	2027-28	2028-29	2024-25	2025-26	2026-27	2027-28	2028-2
1		3	4	5	6	7	8	9	10	11
Total Loan2 Equity Internal Resources		A	dd cap is p	proposed to	o be finan	ced in Deb	ot:Equity r	atio of 70:	30	
Others (Pl. specify)										
Total										
Note: 1. Year 1 refers to Financial Year 2. Loan details for meeting the ad		The property of the second second			** [1.14] (1 1.1-1.42 1.1 11)			r is relevant		
									(Petit	ioner)

PART-I FORM-12

Statement of Depreciation

Annual Control of the	
Name of the Company :	NTPC Limited
Name of the Power Station :	Kawas Gas Power Station

						(Amount	in Rs Lakh)
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	.2	3	4	5	6	7	8
1	Opening Capital Cost	191923.66	192131.14	192464.14	195590.35	196950.35	197010.35
2	Closing Capital Cost	192131.14	192464.14	195590.35	196950.35	197010.35	197070.35
3	Average Capital Cost	192027.40	1,92,297.64	1,94,027.24	1,96,270.35	1,96,980.35	1,97,040.35
1a	Cost of IT Equipments & Software included in (1) above	185.46	205.28	205.28	205.28	205.28	205.28
2a	Cost of IT Equipments & Software included in (2) above	19.82	25		1982	3:	28
3a	Average Cost of IT Equipments & Software	102.64	102.64	102.64	102.64	102.64	102.64
4	Freehold land	733.02	733.02	733.02	733.02	733.02	733.02
5	Rate of depreciation	0.000	0.000	0.000	0.000	0.000	0.000
6	Depreciable value	1,72,184.48	1,72,428.68	1,73,985.33	1,76,004.12	1,76,643.12	1,76,697.12
7.	Balance useful life at the beginning of the period	1.23	0.23	0.00	0.00	0.00	0.00
8	Remaining depreciable value	8,836.93	1,927.06	1,556.64	2,018.79	639.00	54.00
9	Depreciation (for the period)	7,184.50	1,927.06	1,556.64	2,018.79	639.00	54.00
10	Depreciation (annualised)	7,184.50	1,927.06	1,556.64	2,018.79	639.00	54.00
11	Cumulative depreciation at the end of the period	170532.04	1,72,428.68	1,73,985.33	1,76,004.12	1,76,643.12	1,76,697,12
12	Less: Cumulative depreciation adjustment on account of un- discharged liabilities deducted as on 01.04.2009	0.00	0.00	0.00	0.00	0.00	0.00
13	Add: Cumulative depreciation adjustment on account of liability Discharge	0,00	0.00	0.00	0.00	0.00	0.00
13	Less: Cumulative depreciation adjustment on account of de- capitalisation	30.42	0.00	0.00	0.00	0.00	0.00
14	Net Cumulative depreciation at the end of the period after adjustments	1,70,501.63	1,72,428.68	1,73,985.33	1,76,004.12	1,76,643.12	1,76,697.12

(Petitioner)

SBI VIII T-1 D-13

	Date	Rate of Int	Nos of Days		W. Avg Rate
	01-12-2015	9.300	122	1135	
	01-Apr-16				
l			122	1135	9.300

SBI VIII T-1 D-21

Date	Rate of Int	Nos of Days		W. Avg Rate
21-09-2016	9.300	146	1358	
14-Feb-17	8.300	46	382	
01-Apr-17				
		192	1740	9.060

SBI VIII T-1 D-24

Date	Rate of Int	Nos of Days		W. Avg Rate	
14-Feb-17	8.300	46	382		
01-Apr-17					
		46	382	8.300	

1						Form-13
					(Amoun	t in lacs)
Si. no.	Particulars	2024-25	2025-26	2026-27	2027-28	2028-29
	2-1010A-1-1010-					

1	Bonds 54-Series:	0				
	Gross loan - Opening	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
	Cumulative repayments of Loans	900.00	1,500,00	1,500.00	1,500.00	1,500.00
	Net loan - Opening	600,00	- 1	12		125
	Addition	3	16	34	8	2
	Repayments of Loans during the year	800,00	- 6	34	æ	3
	Net loan - Closing	5.	163	9	38	(2)
	Average Net Loan	300.00		57	22	17.
	Rate of Interest on Loan	8.5200%	0.0000%	0.0000%	0.0000%	0.0000%
	Interest on loan	25.58	201:10:57:0	300		
2	HDFC Bank LtdIV	- John Control				
	Gross loan - Opening	18,000.00	18,000.00	18,000.00	18,000.00	18,000.00
	Cumulative repayments of Loans	6,000.00	8,000.00	10.000.00	12,000.00	14,000.00
	Net loan - Opening	12,000.00	10,000.00	8,000.00	6,000.00	4,000.00
	Addition	- 1	183	9	- 38	
	Repayments of Loans during the year	2,000.00	2,000.00	2,000.00	2,000.00	2,000.00
	Net loan - Closing	10,000.00	8,000.00	6,000.00	4,000.00	2,000.00
	Average Net Loan	11,000.00	9,000.00	7,000.00	5,000.00	3,000.00
	Rate of Interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.9500%
	Interest on loan	874.50	715.50	556.50	397.50	238 50

3	HDFC Bank Ltd -VI	li '		i i	1	
	Gross loan - Opening	1,500.00	1,500.00	1,500.00	1,500.00	1,500.0
	Cumulative repayments of Loans			186,67	333.33	500.00
	Net loan - Opening	1,500:00	1,500.00	1,333.33	1,168.67	1,000.00
	Addition	-	-			
	Repayments of Loans during the year	9	166.67	188.87	168.67	166.67
	Net loan - Closing	1,500.00	1,333.33	1,166.67	1,000.00	833.33
	Average Net Loan	1,500.00	1,418.67	1,250.00	1,083.33	916.67
	Rate of interest on Loan	7.9500%	7.9500%	7.9500%	7.9500%	7.95009
	Interest on loan	119.25	112.83	99,38	88.13	72.88
4	59I-VIII					
	Gross loan - Opening	6,000.00	5,000.00	6,000.00	6,000.00	6,000.00
	Cumulative repayments of Loans	2,000.00	2,666.67	3,333,33	4,000.00	4,668,67
	Net loan - Opening	4,000.00	3,333.33	2.668.67	2,000.00	1,333.33
	Addition	=	-	3		-
	Repayments of Loans during the year	668.67	668.87	686.67	686.67	688.87
	Net loan - Closing	3,333.33	2,888.67	2,000.00	1,333.33	656.67
	Average Net Loan	3,888.87	3,000.00	2,333.33	1,868.67	1,000.00
	Rate of Interest on Loan	8.2000%	8.2000%	8.2000%	8.2000%	8,20009
	Interest on loan	300.67	246.00	191.33	136.67	82.00
	Total Loan	-				
	Gross loan - Opening	27,000,00	27,000.00	27,000.00	27,000.00	27,000.00
	Cumulative repayments of Loans	8,900.00	12,166.67	15,000.00	17,833.33	20,666.67
	Net loan - Opening	18,100.00	14,833.33	12,000.00	9,166.67	6,333.33
	Addition	-			25	
	Repayments of Loans during the year	3,266.67	2,833.33	2,833.33	2,833.33	2,833.33
	Net loan - Closing	14,833.33	12,000.00	9,166.67	6,333.33	3,500.00
	Average Net Loan	15,466.67	13,416,67	10,583.33	7,750.00	4,916.67
	Rate of Interest on Loan	8.0161%	8.0059%	8.0051%	8.0038%	8.00089
	Interest on loan	1.319.98	1.074.13	847.21	520.29	393.38

S. No.	Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
	1 State Bank of India - VII	8.2500%	01-Apr-19	14-05-2019	43.00	3.55	7.9342%
Ü		8.1500%	14-May-19		92.00	7.50	196-21-62-01-23-0
		7.9500%	14-Aug-19		92.00	7.31	
		7.7000%	14-Nov-19		92.00	7.08	
		7.6500%	14-Feb-20	31-Mar-20	47.00	3.60	
					366.00	29.04	7.9342%
	State Bank of India - VII	7.650%	01-Apr-20	13-May-20	43.00	3.29	6.8560%
		7.000%	14-May-20	13-Aug-20	92.00	6.44	353.5.5.5.5.5.
		6.650%	14-Aug-20	31-Mar-21	230.00	15.30	
			-	33137743-331	365.00	25.02	
	State Bank of India-VII	6.65%	01-04-2021	31-03-2022	365	24.27	6,65%
	State Bank of India - VII	6.65%	01-04-2022	13-05-2022	43.00	2.86	
	State Bank of India - VII	6.75%			92.00	6.21	
	State Bank of India - VII	7.15%			92.00	6.58	
	State Bank of India - VII	7.60%			92.00	6,99	
	State Bank of India - VII	8,00%			46.00	3.68	
					365.00	26.32	7.2108%
î	State Bank of India - VII	8.00%	01-Apr-23	13-May-23	43.00	3.44	
Q.	State Bank of India - VII	8.10%	14-May-23	29-Jun-23	47.00	3.81	
					90.00	7.25	8.05%
				47.04.04.0	22.22		77777
	2 HDFC Bank Limited-IV	8.450%		17-04-2019	16.00	1.35	8.0492%
		8.400%	- I - I - I - I - I - I - I - I - I - I	29-07-2019	103.00	8.65	
		8.300%	29-Jul-19		31.00	2.57	
	1	8.200%	29-Aug-19	29-09-2019	31.00	2.54	

S. No.	Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
		8.100%	29-Sep-19	29-10-2019	30.00	2.43	
ĺ		8.000%	29-Oct-19	01-12-2019	33.00	2.64	
		7.650%	01-Dec-19	01-03-2020	91.00	6.96	
		7.450%	01-Mar-20	31-Mar-20	31.00	2.31	
					366.00	29.46	8.0492%
	HDFC Bank Limited-IV	7.450%	01-Apr-20	31-May-20	61.00	4.54	6.3982%
		6.300%	01-Jun-20	23-Dec-20	206.00	12.98	
		5.950%	24-Dec-20	31-Mar-21	98.00	5.83	
					365.00	23.35	
	HDFC Bank Limited-IV	5.95%	01-04-2021	31-03-2022	365	21.72	5.95%
	HDFC Bank Limited-IV	5.95%	01-04-2022	23-05-2022	53.00	3.15	
	HDFC Bank Limited-IV	6.35%	24-05-2022	23-06-2022	31.00	1.97	
	HDFC Bank Limited-IV	6.85%	24-06-2022	23-08-2022	61.00	4.18	
	HDFC Bank Limited-IV	7.35%	24-08-2022	23-10-2022	61.00	4.48	
	HDFC Bank Limited-IV	7.85%	24-10-2022	23-12-2022	61.00	4.79	
	HDFC Bank Limited-IV	8.20%	24-12-2022	31-12-2022	8.00	0.66	
	HDFC Bank Limited-IV	7.95%	01-01-2023	28-02-2023	59.00	4.69	
	HDFC Bank Limited-IV	8.01%	01-03-2023	31-03-2023	31.00	2.48	
					365.00	26.40	7.2335%
-	HDFC Bank Limited-IV	8.01%	01-Apr-23	31-May-23	61.00	4.89	
[]	HDFC Bank Limited-IV	7.95%	01-Jun-23	31-Mar-24	305.00	24.25	
					366.00	29.13	7.96%
					22/22		
0	3 HDFC Bank Ltd. VI	8.450%		26-06-2019	86.00	7.27	8.0587%
	1	8.400%	26-Jun-19	29-07-2019	33.00	2.77	

n Interest Rate	0.	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
8.300%		29-Jul-19	29-08-2019	31.00	2.57	
8.200%			29-09-2019	31.00	2.54	
8.100%			29-10-2019	30.00	2.43	
8:000%			01-12-2019	33.00	2.64	
7.650%		01-Dec-19	01-03-2020	91.00	6.96	
7.450%		01-Mar-20	31-Mar-20	31.00	2.31	
				366.00	29.50	8.0587%
VI 7.450%		01-Apr-20	31-May-20	61.00	4.54	6.3982%
6.300%		01-Jun-20	23-Dec-20	206.00	12.98	
5.950%		24-Dec-20	31-Mar-21	98.00	5.83	
				365.00	23.35	
5.95%		01-04-2021	31-03-2022	365	21.72	5,95%
VI 5.95%		01-04-2022	23-05-2022	53.00	3.15	
VI 6.35%		24-05-2022	23-06-2022	31.00	1.97	
VI 6.85%		24-06-2022	23-08-2022	61.00	4.18	
VI 7.35%		24-08-2022	23-10-2022	61.00	4.48	
VI 7.85%		24-10-2022	23-12-2022	61.00	4.79	
VI 8.20%		24-12-2022	31-12-2022	8.00	0.66	
VI 7.95%		01-01-2023	28-02-2023	59.00	4.69	
VI 8.01%		01-03-2023	31-03-2023	31.00	2.48	
				365.00	26.40	7.2335%
VI 8.01%		01-Apr-23	31-May-23	61.00	4.89	
VI 7.95%		01-Jun-23	31-Mar-24	305.00	24.25	
				366.00	29.13	7.96%
-		100000000000000000000000000000000000000			7.95% 01-Jun-23 31-Mar-24 305.00	7.95% 01-Jun-23 31-Mar-24 305.00 24.25

S. No.	Bank Loan	Interest Rate	Applicable from	Applicable upto	Number of Days	Product	Weighted Average Rate of Interest
4	State Bank of India - VIII	8.2500%	01-Apr-19	14-05-2019	43.00	3.55	7.9342%
Ž		8.1500%	14-May-19		92.00	7.50	
		7.9500%	14-Aug-19	14-11-2019	92.00	7.31	
		7.7000%	14-Nov-19	14-02-2020	92.00	7.08	
j.		7.6500%	14-Feb-20	31-Mar-20	47.00	3.60	
					366.00	29.04	7.9342%
	State Bank of India - VIII	7.650%	01-Apr-20	13-May-20	43.00	3.29	6.8560%
		7.000%	14-May-20	13-Aug-20	92.00	6.44	
		6.650%	14-Aug-20	31-Mar-21	230.00	15.30	
					365.00	25.02	
	State Bank of India-VIII	6.65%	01-04-2021	31-03-2022	365	24.27	6,65%
	State Bank of India - VIII	6.65%	01-04-2022	13-05-2022	43.00	2.86	
	State Bank of India - VIII	6.75%	14-05-2022	13-08-2022	92.00	6.21	
	State Bank of India - VIII	7.15%	14-08-2022	13-11-2022	92.00	6.58	
	State Bank of India - VIII	7.60%	14-11-2022	13-02-2023	92.00	6.99	
	State Bank of India - VIII	8.00%	14-02-2023	31-03-2023	46.00	3.68	
					365.00	26.32	7.2108%
	State Bank of India - VIII	8.00%	01-Apr-23	13-May-23	43.00	3.44	
	State Bank of India - VIII	8.10%	14-May-23		92.00	7.45	
	State Bank of India - VIII	8.15%	14-Aug-23	The second secon	184.00	15.00	
Ĭ	State Bank of India - VIII	8.20%	14-Feb-24		47.00	3.85	
					366.00	29.74	8.13%

	CV SSALATE		9	FY 2015-16		194	Y 2016-17		(H)	Y 2017-18	T	Circ.	2018-19	
	FY 2014-15										_			
Date	Rate	Days	Date	Rate	Days	Date	Rate	Days	Date	Rate	Days	Date	Rate	Days
SBI VII- T-1-E	05													
State Bank o	of India-VII													
01-04-2014	10.2500%	365.00	01-04-2015	10.2500%	9.00	01-04-2018	9.3000%	122.00	01-04-2017	8.30%	135	01-04-2018	7.85%	13
01-04-2015	10.2500%		10-Apr-15	10.1000%	59.00	01-08-2016	9.1000%	197.00	14-08-2017	7.90%	92	14-08-2018	7.95%	93
			8-Jun-15	9.9500%	57.00	14-02-2017	8.3000%	46.00	14-11-2017	7.85%	138	14-11-2018	8.20%	9.
			4-Aug-15	9.7000%	62.00	01-04-2017			01-04-2018			14-02-2019	8.25%	4
			5-Oct-15	9:3000%	179.00							01-04-2019		
		10.2500%	01-04-2016		9.6213%			9.0660%			8.0290%			8,01389
HDFC Bank L	tdIV													
														_
												29-06-2018	8.00%	- 1
												17-07-2018	8.10%	9.
												17-10-2018	8.35%	9.
												17-01-2019	8.45%	
												11-11-11-11-11-11-11-11-11-11-11-11-11-	0.4974	7
												01-04-2019	0.4074	8.27079
	4000											11-11-11-11-11-11-11-11-11-11-11-11-11-	0.40/4	
HDFC Bank t	tđVI	\										11-11-11-11-11-11-11-11-11-11-11-11-11-	2.40%	
HDFC Bank L	tđVI	\										11-11-11-11-11-11-11-11-11-11-11-11-11-	8 30%	
HDFC Bank t	tdVI	Y .										01-04-2019		8.27071
HDFC Bank t	tdVI	Š.										01-04-2019 11-10-2018 26-12-2018	8 30%	8.27079 77 91
HDFC Bank t	tdVI	1										01-04-2019	8 30%	8.27079
HDÉC Bank t	tdVI											01-04-2019 11-10-2018 26-12-2018	8 30%	8.27079 77 91
HDPC Bank L	tdVI		r)									01-04-2019 11-10-2018 26-12-2018	8 30%	8.27079 77 91
HDFC Bank 6		295.00	01-04-2015	10.1500%	9.00	01-04-2016	9.3000%	122.00	01-04-2017	8.30%	125	01-04-2019 11-10-2018 26-12-2018	8 30%	8.27079 77 91
	SBI-VIII		01-04-2015 10-Apr-15		711000	01-04-2016 01-08-2016	583550000000000	122.00 197.00	01-04-2017 14-08-2017	8.30% 7.90%	1192	01-04-2019 11-10-2018 26-12-2018 01-04-2019	8 30% 8 45%	8.27079 7/ 9 8.38379
01-04-2014	SBI-VIII 10.15%				711000		58375305350			352.511	1192	01-04-2019 11-10-2018 26-12-2018 01-04-2019	8 30% 8 45% 7 85%	8.27079 77 9 8.38379
01-04-2014 21-01-2015	SBI-VIII 10.15%		10-Apr-15		59.00		9.1000%	197.00		352.511	92	01-04-2019 11-10-2018 26-12-2018 01-04-2019	8 30% 8 45% 7 85%	8.27079 77 9 8.38379
01-04-2014 21-01-2015	SBI-VIII 10.15%		10-Apr-15 8-Jun-15	10.0000%	59.00 57.00	01-08-2016	9.1000%	197.00	14-08-2017	7.90%	92	01-04-2019 11-10-2018 26-12-2018 01-04-2019 01-04-2018 14-08-2018	8 30% 8 45% 7 85% 7 95%	8.27079 77 9 8.38379
01-04-2014 21-01-2015	SBI-VIII 10.15%		10-Apr-15 8-Jun-15 4-Aug-15	10.0000% 9.8500%	59.00 57.00	01-08-2016 14-02-2017	9.1000%	197.00	14-08-2017 14-11-2017	7.90%	92	01-04-2018 26-12-2018 01-04-2019 01-04-2018 14-08-2018	8 30% 8 45% 7 85% 7 95% 8 20%	8.27079 77 9 8.38379 13 9.

	riginal	0
73	8.00%	17-04-2018
118	8.00%	29-06-2018
92		17-07-2018
9.		17-10-2018
74	8.45%	17-01-2019
8.2140%	-	01-04-2019
15	8.30%	26-09-2018
76	8.30%	11-10-2018
96	8.45%	2 6 -12-2018
8.377%		01-04-2019

Statement Giving Details of Project Financed through a Combination of loan Form 8 TRANCHE NO BP NO 5050000521 D00004 T00001 Unsecured Loan From HDFC Bank Ltd.-IV Source of Loan: HDFC Bank Ltd.-IV Currency: INR Amount of Loan: 20.00.00.00.000 Total Drawn amount: 12.45.00.00.000 Date of drawl 29.06.2018 Interest Type: Floating Fixed Interest Rate: Base Rate, If Floating Interest 8.00% Margin, If Floating Interest: NIL Are there any Caps/ Floor: Y/N Frequency of Intt. Payment MONTHLY If Above is yes, specify Caps/ Floor: Moratorium Period : 3 Years Moratorium effective from : 29.06.2018 Repayment Period (Inc. Moratorium): 12 Years Repayment Frequency: 9 Yearly Instalment Repayment Type AVG First Repayment Date: 17.04.2021 RUPEE Base Exchange Rate: Date of Base Exchange Rate: N.A. Project Code Project Name Amount D00004 90,00,00,000 29.06.2018 KORBA R&M T00001 T00001 D00004 RAMAGUNDAM R&M 2,20,00,00,000 29.06.2018 70,00,00,000 29.06.2018 D00004 UNCHAHAR R&M T00001 90,00,00,000 29.06.2018 T00001 D00004 RIHAND R&M 1,80,00,00,000 29.06.2018 D00004 KAWAS R&M T00001 T00001 D00004 AURAIYA R&M 1,80,00,00,000 29.06.2018 TSTPP R&M 90,00,00,000 29.06.2018 T00001 D00004 D00004 1,85,00,00,000 29.06.2018 T00001 GANDHAR R&M 30,00,00,000 29.06.2018 T00001 D00004 NCTPP R&M T00001 D00004 KAHALGAON R&M 30,00,00,000 29.06.2018 ANTA R&M 80,00,00,000 29.06.2018 T00001 D00004

12,45,00,00,000

Total Allocated Amount

Statement Giving Details of Project Financed through a Combination of loan Form 8

T00001 n From HDFC Bank Ltd.	D00002	6		
n From HDFC Bank Ltd.	VI			
10	**			
HDFC Bank Ltd. VI				
INR				
11.10.2018				
Floating				
8.30%				
NIL				
Y/N				
MONTHLY				
		la:		
11.10.2018				
THE PARTY OF THE P				
11/11/2003				
5.07.200				
		4		
N.A.				
Project Name	Amount			
		11.10.2018	700001	D0000
			10 7 N O 10 TO	D0000
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				D0000
			-	D0000
			The second second	D0000
THE PARTY OF THE P			1 St. 7 St. (0.19 M.)	D0000
The Party of the P	A STANISH AND STANISH AND STANISH AS	THE RESERVE OF THE PERSON NAMED IN	 Castley 2 (2 2 2 2) 	D0000
MANAGEMET SANSON THE				D0000
 			4	D0000
		and the second second second		D0000
	A STATE OF THE STA		91.70 (OH)	D0000
	The second secon		- NEW 2000	D0000
	A. 62 G 54 A 66 G C 66	The second second second		D0000
			-	D0000
				D0000
			1,00001	DOOOL
	15,00,00,00,000 5,00,00,00,000 11.10.2018 Floating 8.30% NIL Y/N MONTHLY	15,00,00,00,000 5,00,00,000 11.10.2018 Floating 8.30% NIL Y/N MONTHLY 6 Years 11.10.2018 15 Years 9 Yearly Instalment AVG 26.09.2025 RUPEE N.A. Project Name Amount BARH-I 55,00,00,000 TAPOVAN VISHNUGARH 10,00,00,000 BONGAIGAON 10,00,00,000 BONGAIGAON 10,00,00,000 LARA-I 33,00,00,000 SOLAPUR 14,00,00,000 LARA-I 33,00,00,000 CADARWARA 68,00,00,000 DARLIPALLI 34,00,00,000 TANDA II 31,00,00,000 TANDA II 31,00,00,000 KHARGONE 48,00,00,000 TELANGANA 42,00,00,000 TELANGANA 42,00,00,000 TELANGANA 42,00,00,000 TELANGANA 42,00,00,000 KHARGONE 48,00,00,000 TELANGANA 42,00,00,000 AURAIYA R&M 50,00,0000 KAWAS R&M 15,00,00,000 KAWAS R&M 15,00,00,000 GANDHAR R&M 35,00,00,000	15,00,00,00,000 5,00,00,000 11.10.2018 Floating 8.30% NIL Y/N MONTHLY 6 Years 11.10.2018 15 Years 9 Yearly instalment AVG 26.09.2025 RUPEE N.A. Project Name BARH-I 55,00,00,000 11.10.2018 TAPOVAN VISHNUGARI BONGAIGAON 10,00,0000 11.10.2018 SOLAPUR 14,00,00,000 11.10.2018 BONGAIGAON 10,00,0000 11.10.2018 LARA-I 33,00,00,000 11.10.2018 NORTH KARANPURA 68,00,00,000 11.10.2018 DARLIPALLI TANDA II 31,00,00,000 11.10.2018 RAMMAM 3,00,00,000 11.10.2018 RAMRAGONE 48,00,00,000 11.10.2018 RAWAS R&M 50,00,00,000 11.10.2018 RAWAS R&M 50,00,00,000 11.10.2018 RAWAS R&M 50,00,00,000 11.10.2018	15,00,00,00,000 5,00,00,00,000 11.10.2018 Floating 8.30% NIL Y/N MONTHLY 6 Years 11.10.2018 15 Years 9 Yearly instalment AVG 26.09.2025 RUPEE N.A. Project Name Amount BARH-I 55,00,00,000 11.10.2018 100001 TAPOVAN VISHNUGARH 10,00,00,000 11.10.2018 100001 BONGAIGAON 10,00,000 11.10.2018 100001 SOLAPUR 14,00,00,000 11.10.2018 100001 LARA-I 33,00,00,000 11.10.2018 100001 LARA-I 33,00,00,000 11.10.2018 100001 NORTH KARANPURA 42,00,00,000 11.10.2018 100001 NORTH KARANPURA 42,00,00,000 11.10.2018 100001 TANDA II 31,00,00,000 11.10.2018 100001 TELANGANA 42,00,0000 11.10.2018 100001 TELANGANA 42,00,0000 11.10.2018 100001 TELANGANA 42,00,0,000 11.10.2018 100001 NCTPP R&M 50,00,00,000 11.10.2018 100001 NCTPP R&M 50,00,00,000 11.10.2018 100001 KAWAS R&M 15,00,00,000 11.10.2018 100001 KAWAS R&M 15,00,00,000 11.10.2018 100001

Statement Giving Details of Project Financed through a Combination of loan Form 8

BP NO 5050000442	T00001	D0001		
Unsecu	ed Loan From SBI-VIII]	
Source of Loan :	SBI-VIII			
	The state of the s		1	
Currency:	INR		-	
Amount of Loan :	1,00,00,00,00,000			
Total Drawn amount :	5,00,00,00,000			
Interest Type :	Floating			
Fixed Interest Rate :			1	
Base Rate, If Floating Interest	D0001-3-10.10%		1	
Margin, If Floating Interest:	0.15%		1	
Are there any Caps/ Floor:	Y/N			
Frequency of Intt. Payment If Above is yes, specify Caps/ Floor:	Monthly			
Moratorium Period :	6 Years		1	
Moratorium effective from :	21.01.2015		1	
Repayment Period (Inc Moratorium)	15 Years			
Repayment Frequency:	9 Yearly Installments			
Repayment Type :	AVG			
First Repayment Date:	31.01.2022		1	
Base Exchange Rate:	RUPEE		1	
Date of Base Exchange Rate :	N.A.			
Project Code	Project Name	Amount		
***************************************	BARH-I	1,00,00,00,000	21.01.2015	D0001
	FARAKKA R&M	25,00,00,000		D0001
	TSTPP R&M	40,00,00,000	THE PARTY AND ADDRESS OF	D0001
	SINGRAULI R&M	40,00,00,000		D0001
	RAMAGUNDAM R&M	50,00,00,000		D0001
	KAWAS R&M	60,00,00,000		D0001
	KORBA R&M	60,00,00,000		D0001
	GANDHAR R&M	1,25,00,00,000	Annual Company of the	D0001
Total Allocated	(Inches) served the Mexico execution	5,00,00,00,000.00	per en antique de la contra	

SBI New York	2014-15				
	01-04-2014	2.24820%	44	0.9892	
	15-05-2014	2.17290%	186	4.0416	
	17-11-2014	2.17615%	135	2.9378	
	01-04-2015		365	7.9686	2.1989%
	2015-16				
	01-04-2015	2.17615%	46	1.0010	
	17-05-2015	2.26415%	183	4.1434	
	16-11-2015	2.45050%	53	1.2988	
	08-01-2016	2.00050%	84	1.6804	
	01-04-2016			7,3,0,0,0,0,0,0	
			366	8.12361	2.2355%
	2016-17				
	01-04-2016	2.00050%	45	0.90023	
	16-05-2016	2.30665%	184	4.24424	
	16-11-2016	2.65822%	136	3.61518	
	01-04-2017	2.0302276	130	3.01310	
	01-04-2017		365	2 7506A	2.4171%
—— —			303	0.75504	2.41/17
	2017-18	-			
	01-04-2017	2.65822%	44	1.16962	
	15-05-2017	2.83933%	184	5.22437	
	15-11-2017	3.01618%	137	4.13217	
	01-04-2018		1077		
			365	10.52615	2.9046%
	2018-19				
	01-04-2018	3.01618%	44	1.32712	
	15-05-2018	3.91500%		1.05-55000-11-12-22-4	
	15-05-2018	4.25500%	184 137	7.20360 5.82935	
	01-04-2019	4,2330070	13/	0.02935	
	0.1-04-2019		365	14.36007	3.9625%
			202	14.50007	JAJUE J 10

Month Perticulars OPEMING (Opening St Value of St QUANTITY QUANTITY of Adjustment Ses supplis Normative Net gas su; PRICE Amount on Assustment Assustment Assustment TRANSPORT	the generating Station (3) QUANTITY Stock of Gas Stock Y of gas/RU/G/Upoid fuel substited by gas whi (+/-) in quantity supplied made by Gas Red by Gas Company (3+4) a transit 5 Handling lesses usplied (5 - 6) charged by the Gas/Cil Company mt (+/-) in amount charged by Gas Company Sampling and such other Similar charges ount charged (5 +9+10)	Unit (1000 SCM)/MT Rs (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) Rs Rs Rs Rs Rs Rs Rs R	2,00 2,00 0,00 0,00 0,00 0,00 0,00 0,00	Mey 23 Naturel Ges APM 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00	Aug-23 Natural Ses APM 0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0c6-23 5.00 5.00 5.00 0.00 0	Nov-13 Natural Get AFM
Month Perticulars OPEMING Coparing St Value of St QUARTITY OUARTITY OUARTITY OUARTITY Hot gas sur Net gas sur PRICE Acquatment Handling S Total Amo TRANSPOR Trensports By Sale By Sale By Sale By Ship	(QUANTITY Stock of Gae Stock Y of gat/RUNG/Uquid flue! supplied by gas int (+/-) in quantity supplied made by Gas lied by Gas Company (3+4) is transit & Handling lesses upplied (5 - 6) therged by the Gas/CII Company strip-/-/- in amount charged by Gas Company Sampling and such other Similar charges ount charged (5+9+10) ORTATION	(1000 SCM)/MT Rs (1000 SCM)	5,00 5,00 0,00 0,00 0,00 0,00 144 0,00	Mey 23 Naturel Ges APM 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	0.30 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0 0 0.00	######################################	0,50 0,00 0,00 0,00 0,00	0.00 0.00 0.00	AFM DD
OPENING I Opening St Value of St QUANTITY Opening St QUANTITY Opening St Adjustmen Gas supplie Normative Not gas su; PRICE Amount on Adjustmen Hending S Total Amo TRANSPOI TRANSPOI Transporta By Sale By Sale Sy Ship	QUANTITY Stock of Gas Stock Y Of gaz/RUNG/Upoid fuel suptilled by gas int (+/-) In quantity supplied made by Gas led by Gas Company (3+4) a transft & Hendling lesses upplied (5 - 6) thereas by the Gas/Cin Company int (+/-) In amount charged by Gas Company Sampling and such other Similar charges ount charged (3+8+10) DITATION	(1000 SCM)/MT Rs (1000 SCM)	5,00 5,00 0,00 0,00 0,00 0,00 144 0,00	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0 0 0.00	######################################	0,50 0,00 0,00 0,00 0,00	0.00 0.00 0.00	AFM DE D
Opening St value of St QUARTITY O QUARTITY O Quantity of Adjustmentive Net gas siz PRICE Amount of Acquatment Handing S Total Amo Transports By Sale By Sale Sy Ship	Stock of Gas Stock Y of gaz/RUHG/Liquid fuel supplied by gas int (+/-) in quantity supplied made by Gas led by Gas Company [31-4] s transit 5: Handling lesses upplied (5 - 6) charged by the Gas/Cill Company int (+/-) in amount charged by Gas Company Sampling and such other Similar charges dont charged (5+9+10) DETATION	Rs (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM)	0.00 0.00 0.00 0.00 144 0.00	00.0 00.0 00.0 00.0 00.0 00.0 00.0	0.00 0.00 0.00 0.00	0.00 0 0 0,00 1,00	0.00 0.00 0.00 0 0 0.00 70A	0.00 0.00 0.00 0.00	0.00 0 0 0.00	8.0 2.0
Opening St value of St QUARTITY O QUARTITY O Quantity of Adjustmentive Net gas siz PRICE Amount of Acquatment Handing S Total Amo Transports By Sale By Sale Sy Ship	Stock of Gas Stock Y of gaz/RUHG/Liquid fuel supplied by gas int (+/-) in quantity supplied made by Gas led by Gas Company [31-4] s transit 5: Handling lesses upplied (5 - 6) charged by the Gas/Cill Company int (+/-) in amount charged by Gas Company Sampling and such other Similar charges dont charged (5+9+10) DETATION	Rs (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM)	0.00 0.00 0.00 0.00 144 0.00	00.0 00.0 00.0 00.0 00.0 00.0 00.0	0.00 0.00 0.00 0.00	0.00 0 0 0,00 1,00	0.00 0 0 0.00 194	0.00 0.00 0.00 0.00	0.00 0 0 0.00	8.0
Value of SI QUANTITY QUANTITY QUANTITY QUANTITY QUANTITY QUANTITY QUANTITY REPORT AND COMMON THE GRAND THE	Stock Y of gat/RUHS/Uquid fuel supplied by gas of (+/-) in quantity supplied made by Gas Hed by Gas Company (3+4) is transit & Handling losses upplied (5 - 6) charged by the Gas/Cill Company of (+/-) in amount charged by Gas Company Sampling and such other Similar charges ount charged (5+8+10) ORTATION	Rs (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM)	0.00 0.00 0.00 0.00 144 0.00	00.0 00.0 00.0 00.0 00.0 00.0 00.0	0.00 0.00 0.00 0.00	0.00 0 0 0,00 1,00	0.00 0 0 0.00 194	0.00 0.00 0.00 0.00	0.00 0 0 0.00	8.0
QUANTITY Quantity of Adjustmen Gas supplied Hormstone Heading Street Heading Stre	of gaz/RUNG/Liquid fuel suptilled by gas int (+/-) in quantity supplied made by Gas led by Gas Company (3+4) a transf & Hendling lesses uspilled (3 - 6) interged by the Gas/Cill Company int (+/-) in amount charged by Gas Company Sampling and such other Similar changes aunt charged (3+8+10) DRIATION	(1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM)	0.00 0.00 0.00 0.00 HA 0.00	0.00 0.00 0.00 0.00 MA 0.00	0.00 0.00 0.00 0.00	0.00 0 0.00	0.00 0 0.000 NA	0.00 0 0.00	0.00 0 0.00	0.0
Quantity of Adjustment Gas supplied Hormstone Histogas our PRUCE Amount on Adjustment Hendling, S. Total Amount TRANSPORT Trensports By Sall By Road By Ship	of gat/RUNG/Uguid fuel supplied by gas int (+/-) in quantity supplied made by Gas lied by Gas Company (3+4) is transft 5. Handling lesses supplied (5 - 6) theread by the Gas/Cli Company int (+/-) in amount charged by Gas Company Sampling and such other Similar charges sount charged (5 +9+10) DRIATION	(1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) Rs Rs Rs	0.00 2.00 144 2.00 0.00	0.00 0.00 MA 0.00	0.00 0.00 Ast	0 0,00 NA	0 0.00 NA	0 0,00 NA	0.00	
Adjustmen Gas supplication Hermative Het gas sur PRICE Amount of Adjustmen Hending, S Total Ampor Transports By Sall By Road Sy Ship	int (+/-) in quantity supplied made by Gas Had by Gas Company (3+4) is transit 5. Handling lesses upplied (5 - 6) Imarged by the Gas/Cli Company Int (+/-) in amount charged by Gas Company Sampling and such other Similar charges don't charged (3+9+10) DETATION	(1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) (1000 SCM) Rs Rs Rs	0.00 2.00 144 2.00 0.00	0.00 0.00 MA 0.00	0.00 0.00 Ast	0 0,00 NA	0 0.00 NA	0 0,00 NA	0.00	
Gas supplication in the gas sur PRICE Amount on Adjustmen Hending, Son TRANSPORT Transports By Sale By Sale By Sale By Sale By Sale	iled by Gas Company (3+4) s transit & Handling lesses upplied (5 - 6) Interged by the Gas/Cil Company Int (+/-) in amount charged by Gas Company Sampling and such other Similar charges dont charged (5+9+10) BITATION	(1000 SCM.) (1000 SCM.) (1000 SCM.) (1000 SCM.) Rz Rz Rz Rz	0.00 NA 0.00 0.00	0.00 MA 0.00	0.00 NA	9.00 NA	0.00 NA	0.00 NA	0.90	
Normative Not gas our PRICE Amount on Adjustmen Hendling S Total Amo TRANSPOR Transports By Rail By Road By Ship	e transit & Handling lesses uppilled (5 - 6) Charged by the Gas/Oil Company Int (+/-) in amount charged by Gas Company Sampling and outh other Similar charges ount charged (5 +9+10) ORTATION	(1000 SCM) (1000 SCM) (1000 SCM) R2 R2 R2 R3	9.00 0.00 0.00	NA 0.00	762	NA.	Pat	NA	100	6.0
Net gas sur PRICE Amount on Adjustmen Hendling S Total Amo TRANSPOR Transports By Rail By Road By Ship	upplied (5 - 6) Inerged by the Gas/CII Company Int (+ / -) In amount charged by Gas Company Sampling and such other Similar charges ount charged (5 + 9 + 10) PETATION	(1000 SCM) R2 R2 R3 R3	0.00 0.00	0.00	100	1000				
PRICE Amount on Adjustmen Handling S Total Amo TRANSPOR Transporta By Sail By Road By Ship	therged by the Gas/Oil Company int (+/-) in amount charged by Gas Company Sampling and such other Similar charges don't charged (\$+9+10) REATION	R1 E1 R1 R2	0.00	0.00	0,00	0.00	0.00		NA.	
Amount on Adjustmen Handling S Total Amo TRANSPOR Transporta By Sall By Road By Ship	ont (+/-) in amount charged by Gas Company Sampling and such other Similar charges don't charged (5+9+10) REATION	Rs Rs	5.60		2000			0.00	0.00	9.0
Adjustmen Hendling S Total Amo TRANSPOR Transports By Real By Read By Ship	ont (+/-) in amount charged by Gas Company Sampling and such other Similar charges don't charged (5+9+10) REATION	Rs Rs	5.60							3.5
Handling S Total Amo TRANSPOR Transporta By Sall By Poad By Ship	Sampling and such other Similar charges ount charged (\$ +9+10) HTATION	Rs Rs			0.00	0.00	0.00	0.00	0.00	0.0
Total Amo TRANSPOR Transporta By Sail By Road By Ship	ount charged (\$ +9+10) HITATION	84	0.00	0.00	0.00	0	0	9	0	
TRANSPOR Transporta By Bail By Road By Ship	RITATION	1000		0.00	0.00	0	2	0	0	
Transports By Sail By Road By Ship	manufacture and the second sec	327	0.00	0.00	0,00	0.00	0.00	0.00	0.00	9.0
By Bail By Road By Ship	ration charges by Rall / Ship / Road Transport		- 1							
By Road By Ship	ACADINE TO A CONTRACT OF THE PARTY OF THE PA									
By Ship		81	5.00	0.00	0.00	0.00	0.00	0,00	0.00	0.0
-		25	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.0
By Flore		84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
		21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Adjustmen	int (+/-) in amount charged by rallways /	Rs.	0.00	0.00	0.00	0	0	0	0	171
Demunage	ge charges, if any	81	5.00	0.00	0.00	0.00	0.00	0,00	0.00	6.6
Total frams	sportation charges (12+/- 13 - 14)	25	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.0
Total amou	ount charged for Sas/Oll supplied including	84	0.00	0.00	0,00	0.00	0.00	0.00	0.00	0.0
TOTAL COS	DST	Programme Control			22000	- 2				
Landed Co	ost of Gas (2+16) / (1+7)	#s/1000 SCM/MT	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
Blanding R	Ratio			NA.			NA.		- stanil	NA
Weighted	average cost of Gas			NA.		.90	764		A-	NA.
QUAUTY	SOUTH STATE OF THE			771-2						
GCV of Gas	as of the opahing stock as per bill of Gas	(KC#I/SCAF)	tiA.	744	hA.	加车	MA	NA.	NA.	
SEV of Gas	as supplied as per bill of Gas company	(kcal/SOM)							- 177	
GCV of Gas	as of the Opening stock as received at station	(koal/SCM)	TLA.	ha	NA	NA.	1/A	:NA	NA	5.6
GCV of Gas	es supplied as received at station	(ktal/SCM)		0	0	0		ō.		
Waighted	average GCV of Gas as received	(kca)/5CM)	-0	0	0	0	0	0	0	
				1						

Vame of the generating Station					
Month		Dec-23	1nn-34	Feb-24 Natural Ses	Mar-24
erticulars	Unit			APM	
PENING QUANTITY					
Opening Stock of Gas	(1000 SCM)/MT	0,00	0.00	0.00	0,0
raius of Stock	As	2.00	0.00	0.00	0.0
QUANTITY	-01.				- 115
Quantity of gaz/RUNG/Liquid fuel supplied by gas	(1000 SCM)	0.00	0.00	0.00	0:0
Idjustment (+/-) in quantity supplied made by Eas	(1000 SCM)	0	0	0	10
Sas supplied by Gas Company (3+4)	(1000 SCM)	0,00	0.00	0.00	0,0
Vormative bransit & Handling losses	(1000-SCM.)	114	NA	764	. 14
let gas supplied (5 - 6)	(2000 SCM)	0.00	0.00	0,00	0.0
RICE				2000	-20
Impurit charged by the Gas/Oil Company	Ra	0.00	0.00	0.00	0.0
Coustment (+ / -) In amount charged by Gas Company	81	0	0	. 0	
landling Sampling and such other Similar charges	As .		0	0	
fotal Amount charged (\$+9+10)	84	0.00	0.00	0,00	(0.0
RANSPORTATION	21				
Pensportation charges by Rall / Ship / Road Transport					
ing to Carlot Annual Property of the Carlot Annual	81	0.00	0.00	0.00	0.0
ly Road	25	2.00	0.00	0.00	0.0
ay Shirp	RE	0.00	0.00	0.00	0.0
V Pice	21	0.00	0.00	0.00	0.0
Idjustment (+/-) in amount charged by railways /	Rs .	0	0	0	
An ingredient to the property of the property	84	2.00	0.00	0.00	0.0
transportation charges (12+/- 13 - 14)	85	2.00	0.00	0.00	0.0
Total amount charged for Sas/Oli supplied including	74	0.00	0.00	0.50	0.0
TOTAL COST					
anded Cost of Gas (2+16) / (1+7)	#s/1000 SCM/MT	0.00	0.00	0.00	0.0
Bending Ratio				NA.	
Valented systems cost of Gas			111	NA	
Name of the Control o	(Vezi/SEAR)	NA.	710	NA.	N.
			1777		- 172
SCV of Gas of the Opening stock as received at station	(koal/SCM)	NA.	tia.	AII	f No.
SCV of Gas supplied as received at station	(ktal/SCM)	- 1	0	0	
Weightod average GCV of Gas as received	(kdai/SCM)	0	ō	0	
	Opening Stock of Gas (sius of Stock QUANTITY GENERAL Sas supplied ty Gas Company (3+4) Infrastive bransh & Handling losses let gas supplied (3 - 6) RRICE Amount charged by the Gas/Oil Company Quantity (+/-) in amount charged by Gas Company landling Sampling and such other Similar charges (otal Amount charged (5 +9+10) TRANSPORTATION Transportation charges by Rall / Snip / Road Transport by Sas by Ship by Pice Idjustment (+/-) in amount charged by rallways / Semurage charges, if any Otal transportation charges (12+/-13+14) Intal amount charged for Gas/Oil supplied including OTAL COST anded Cost of Gas (2+16) / (1+7) Bending Ratio Naighted average cost of Gas QUANTITY SCL of Gas supplied as per bill of Gas company SCL of Gas supplied as per bill of Gas company		Specific Speck of Gase Speck of Speck Speck of Speck		### PENING QUANTITY 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0

Details of Sourcewise fuel for computation of Energy Charges				FORM -15				
Company				NTFCLtd				
Name of the generating Station			Fave	s Gas power project				
Month		Apr-23	May-23	Jun-23	16-23	Aug-23	Sep-23	Oct-23
St. Farticulars	Unit						Committee	f Gas
A) OPENING QUANTITY	77.00		T		T			
1 Opening Stock of Gas	(1000 SCM)/MT	9.00	5.00	0.00	0.00	500	0.00	0.00
1 Value of Stock	Rs.	0.00	5.00	0.00	0.03	0.00	0.00	2.0
5) QUANTITY					1,000	Ge s.		-1150
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 SCM)/MT	902.82	0.00	9,030.05	13,173.19	25,329.13	10,668.74	10,939.79
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	3.00	0.00	0.00	0.00	0.0
3 Ses supplied by Gas Company (3+4)	(1000 SCM)/MT	902.52	5.00	9,030.05	13,173.19	25,329.13	10,888.74	10,939.7
6 Normative transit & Handling losses	(1000 SCM)/MT	NA.	NA	NA.	NA.	NA.	NA	NJ
7 Net gas supplied (3-8)	(1000 SCM)/NIT	902.82	0.00	9,030.05	13.173.19	25,329,13	10,688.74	10,939.7
C) PRICE	1,100,000	53569	15,174			300000		
8 Amount charged by the Gas/Oil Company	RS	4,47,29,283.97	0.00	40,34,75,110.65	65,57,48,786.83	1,25,35,21,779.33	\$4,98,09,857.97	53,04,09,994.1
9 Adjustment (+ / -) In amount charged by Gas Company	Rs	9.00	5.50	0.00	0.00	0.00	0.00	0.0
10 Handling Sampling and such other Similar charges	Ps.	0.00	0.00	0.00	0.00	0.00	0.00	5,0
11 Total Amount charged (2+5+10)	Rs .	4,47,29,383.97	0.00	40.34,75,110.65	65,57,48,786.88	1,25,35,21,779,23	54.98.09.857.97	53,04,09,994.11
D) TRANSFORTATION	Rs	111/4/1000	1000			2 22 18 12 2 2 18 18 18 18		
12 Transportation charges by Rall / Ship / Road Transport	100							
By Raft	Rs	9.00	5.00	0.00	0.00	0.00	0.00	0.0
By Road	Rs	0.00	0.00	9.00	0.00	0.00	0.00	5.0
By Ship	Rs	0.00	0.00	0.00	0.00	0.00	0.00	0.00
By Pipe	Rs	15,12,374.03	0.00	1,52,26,133.36	2,23,82,594.07	4,31,09,841.77	1,82,54,485,57	0.0
13 Adjustment (+/-) in amount charged by railways / transport company	RS	0.00	0.00	0.00	0.00	0.00	0.00	-0.0
14 Demurrage charges, if any	Rs	0.00	5.00	0.00	0.00	0.00	0.00	0.0
15 Total transportation charges (12+/+13 - 14)	Rs	15,12,374.03	0.00	1,32,26,133.38	2,23,82,694.07	4,31,09,84E.77	1,82,54,485.57	0,0
15 Total amount charged for Gas/Oil supplied including transportation (11+	Rs .	4,62,41,858.00	0.00	41,87,01,244.01	67,81,31,480.90	1,29,66,31,621.00	96,80,64,293.34	53,04,09,994.1
E) TOTAL COST		1100000000					200000000	
17 Landed Cost of Gas (2+16) / (1+7)	Rs/1000-SCM/MT	51,219,13		46,367.54	51,478.15	51,191.32	53,245.68	48,484.5
12 Blending Ratio				NA.	NA.	NA	NA	147
19 Weighted average cost of Sas				NA	HA	NA.	:NA	:Ni
F) QUAUTY		2711-11	17 Pm		17114	#5771B	11543	+17
20 SCV of Gas of the opening stock as per bill of Gas company	(kcai/SCNI)	HA	NA.	NA.	NA	NA	NA	N/
21 GCV of Gas supplied as per till of Gas company	(xcsi/SCM)	9552.92	0.00	9613.60	9557.49	9573.68	9682.10	9528.4
22 GCV of Gas of the Opening stock as received at station	(ktal/SCM)	NA.	NA.	NA	NA.	NA	NA	147
23 GCV of Gas supplied as received at station	(xcat/SCM)	3552.92	0.00	9615.60	9537.49	9973.68	9682.20	9928.4
24 Weighted everage GCV of Gas as received	(ktsi/SCM)	9552.92		3615:60	9557.49	9573.66	9682.20	9528.44

Wt Avg Price Wt Avg GCV For 2023-24 52594.47 9577.92

Details of Sourcewise fuel for computation of Energy Charges Company						
Name of the generating Station						
Month		Nov-23	Dec-23	Jan-24	Feb-24	War-24
SL Farticulars	Unit	1004.65	1000	220.50	148.65	1000.57
	9711					
A) OPENING QUANTITY	(1000 SCM)/MT	0.00	5.00	0.00	0.00	20
1 Opening Stock of Gas	Rs Rs	0.00	5.00	0.00	0.00	0.0
2 Value of Stock	396.5	0,00	, 10,900	9.60	5,02	30
5 QUANTITY					271122	22
Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 SEM)/MIT	3,996.95	7,217,40	13,659.84	5,463.99	0,0
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0,00	0.00	0.00	0,00	0.0
5 Gas supplied by Gas Company (3+4)	(1000 SCM)/MT	3,996.95	7,217.40	13,853.84	3,453.99	2.0
6 Normative transit & Handling losses	(1000 SCM)/MT	NA	NA	NA:	NA.	NJ
7 Net gas aupplied (3 - 6)	(1000 SCM)/NIT	3,966.99	7,217.40	13,655.84	5,463.99	0.0
C) PRICE						
8 Amount charged by the Gat/Gil Company	RS	32,91,82,867.69	43,49,57,003,74	89,35,27,866.76	21,82,34,847,00	0.0
Adjustment (+ // -) In amount charged by Gas Company	Rs	9,00	5.50	0.00	0.00	6.0
10 Handling Sampling and such other Similar charges	Rs .	0,00	0,00	0.00	0,00	0.0
11 Total Amount charged (8+9+10)	Rs .	31,51,81,857.69	43,49,57,002.74	69,35,27,665.76	21,82,34,847.00	0.0
D) TRANSPORTATION	Rs	CARRIER COLLUNIA	(00000000000000000000000000000000000000	2.5040000		
12 Transportation charges by Rall / Ship / Road Transport						
By Rail	Rs	0.00	5.50	0.00	0.00	0.0
By Roed	Rs	0,00	0.00	0.00	0,00	0.0
By Ship	Rs .	0.00	0.00	0.00	0.00	0.0
By Pipe	Rs	0.00	0.00	0.00	0.00	0.0
13 Adjustment (+/-) in amount charged by railways / transport company	76	0,00	0.00	8,00	0.00	0.0
14 Demurrage charges, if any	Rs	0.00	5.00	0.50	0.00	6.0
13 Total transportation charges (12+/-13 - 14)	Ps.	0.00	0.00	9.00	0.00	0.0
15 Total amount charged for Gas/Oil supplied including transportation (11+	Rs	37,51,87,857.69	43,49,57,002.74	69.35,27,665.76	21.82.34.847.00	0.0
EL TOTAL COST		COMMITTEE CO.	- CAMBRAGOS			
17 (anded Cost of Gas (2+16) / (1+7)	Rs/1000 SCM/MT	82,981.35	60,265.05	50,771.29	39,940.56	
13 Blending Ratio		NA.	714	NA	NA.	10
19 Waighted average cost of Sac		NA	NA!	NA.	NA.	100
FI QUAUTY		CINCO				
20 SC/ of Gas of the opening stock as per bit of Gas company	(kcai/SCM)	HA	NA.	NA.	NA	NJ.
21 GCV of Gas supplied as per bill of Gas company	(xcsi/SCM)	9499.31	9641.20	9605.68	9522.E7	5.0
21 GCV of Gas of the Opening stock as received at station	(ktal/SCM)	NA.	744	NA	NA.	10
23 GCV of Gas supplied as received at station	(xcal/SCM)	9499.31	9641.20	9605.89	9522.67	0.0
24 Weighted everage GCV of Gas as received	(krai/SCM)	9499.31	9641.20	3605.69	9522.67	9.00

Petitioner

Details of Sourcewise fuel for computation of Energy	Cherges			FORM-15					
Company				MTPC					
Name of the generating Station				Gas power project					
Month		Apr-23	Msy-23	Jun-23	Jul-23	Aug-23	Sep-23	Oct-23	Nov-23
SL Particulars	Unit						HLNG	i.	
A) OPENING QUANTITY							5.00		
1 Opening Stock of Gas	(1000 SCM)/MT	0.00	5.00	0.00	200	0.00	0.00	0.00	0.0
I Value of Stock	Rx	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.5
6 QUANTITY									
3 Quantity of gas/RUNG/Liquid fuel supplied by gas	(1,000 SCM)/MT	4,434.99	10,721 68	14,725.25	4,930,67	2,613.56	6,106.99	14,400.63	5
4 Adjustment (+/-) In quantity supplied made by Gas	(1000 SCM)/MT	0.00	0.00	0.00		0	- 1	0	
5 Gas supplied by Gas Company (2+4)	(1000 SCM)/MT	4,424.85	10,721.58	14,725,25	4,530.57	2,613.56	2,108.35	14,400.65	0.0
S Normative transit & Handling losses	(1000 SCM)/MT	0.00	0.00	0.00	NA.	MA	NA.	NA	ti
7 Net gas supplied (3 - 6)	(1000 SCM]/MT	4,434.85	10,721.68	14,726.25	4,930.67	2,513.36	8,108.99	14,400.63	0.5
C) PRICE			2000	Seattle State of the State of t	.,,200000			THE STREET	-201
8 Amount charged by the Gas/Cil Company	Rs	20,83,57,463.29	49,32,15,121.97	64,37,16,307.73	21,54,62,808.90	11,51,61,776.12	36,72,65,529.54	70,13,12,496.28	0.0
9 Adjustment (+ / -) In amount charged by Gas	R¢	0.00	5.00	0.00		0		0	- 3
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00	0.00	0	0	b	0	- 6
11 Total Amount charged (8+9+10)	Rs	10,83,57,463,29	49,37,15,121,97	64,37,36,397,73	21,54,62,808.60	11,51,61,776.18	36,72,55,389.54	70,13,58,496.28	0.5
D) TRANSPORTATION	Rs		7770770300000	S-SHIPSTONIA CANA	200000000000000000000000000000000000000				
12 Transportation charges by Rall / Ship / Road Transport									
By Rail	R¢	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.0
By Road	Rx	0.00	0:00	0.00	0.00	0.00	0.00	0.00	0.5
By Ship	Rs	0.00	0.00	0.00	2.00	0.00	2.00	0.00	0.0
By Pige	R\$	77,86,905.71	1,81,83,520.99	2,43,30,239.27	83,86,274,40	45,27,318.56	1,39,82,592.47	0.00	0.0
13 Adjustment (+/-) in amount charged by railways /	Rs	0.00	0.00	5.00	- 6	0		0	
\$4 Demurrage charges, if any	Rs	0.00	5.00	0.00	0.00	0.00	0.00	0.00	0.0
13 Total transportation charges (12+/- 13 + 14)	Rx	77,85,905.71	1,81,83,620.99	2,43,30,239.27	23,85,274,40	43,27,318.56	1,39,82,592.47	0.00	0.0
15 Total amount charged for Sas/Oil supplied including	R\$	21,51,44,389.00	51,13,98,742.96	66,80,66,937.00	27,38,49,083.00	11,96,89,094.74	38,18,48,187.01	70,13,18,496.28	0.5
E) TOTAL COST			100000000000000000000000000000000000000	303 587 2 11 11 11 11 1				541.000.00	9241
17 Landed Cost of Gas (2+15) / (1+7)	Re/3000 SCNI/AIT	48,847.84	47,697.63	45,365.70	45,399.32	45,795.43	47,091.81	48,700.48	
sa Blanding Ratio		1/1			107		NA	**	
19 Waighted average cost of Gas							NA.		
FI QUALITY					10				
20 GCV of Gas of the opening stock as per bill of Gas	(kcal/SCM)	NA NA	162	NA.	NA.	NA.	A45	NA.	14
21 GCV of Gas supplied as per till of Gas company	(kcsi/SCM)	10036.93	9672.82	9423.01	9567.21	9743.87	9699.85	9710.48	- 1
22 GCV of Gas of the Opening stock as received at	(KCAI/SCM)	NA	NA	NA.	NA	NA.	NA.	NA.	19
23 GCV of Gas supplied as received at station	(kcal/SCM)	10036.93	9671.82	5423.01	9567.21	9743.87	9899.85	9710.48	
34 Weighted average GEV of Gas as received	(kt#l/SCM)	10036.95	9672.82	5423.01	5567,21	9743.87	9699.85	5710.48	

Company						
Name of the generating Station						
Month			Dec-23	Jan-24	Feb-24	Mer-24
SL Particulars	1 1	Jnit		200.00		
A) OPENING QUANTITY						
1 Opening Stock of Gas	(3,000)	CM I/MT	0.00	0.00	0.00	0.0
I Value of Stock	1,000	Rx	0.00	8.00	0.00	0.0
BI QUANTITY				5,55		
3 Quantity of gas/RENG/Liquid fuel suc	onliad by see (1000)	CM //MT	. 0	3,707.86	2:844:79	1,424.7
4 Adjustment (+/-) in quantity supplies	AND RESIDENCE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	CM J/MT	- 6	0	0	350505
5 Gas supplied by Gas Company (3+4)		CM I/MT	0.00	3,707.86	2.844.79	1,424.7
S hiprostive transit & Handling losses	1,000	CM I/MT	NA	NA	NA.	N
7 Net gas supplied (5 · 6)		CM //MT	0.00	3,707.86	2 844 79	1.424.7
C) PRICE	10000	-		3131133		
8 Amount charged by the Gas, Oil Com	nam .	Rs	0.00	18 17 19 800 90	13:23.87.855.00	6.74.33.926.0
9 Aguetment (+ / -) In amount charges	CONTRACTOR OF THE PARTY OF THE	86	0		- 4	
10 Handling Sampling and such other St		Rs	e	0	0	
11 Total Amount charged (8+9+10)		Rs	0.00	18.17.19.800.90	13.73.87.835.00	6.74.33.926.0
D) TRANSPORTATION		Rs				71.7500
12 Transportation charges by Rall / Ship	/ Road Transport	100				
By Rail		86	0.00	0.00	0.00	20
Sv Paed		Rs	0.00	8.00	0.00	0.0
ByShip		Rs	0.00	0.00	0.00	0.0
By Plos		Rs	0.00	0.00	0.00	0.0
13 Adjustment (+/-) in amount charged	No rethings /	Ra	G	0	0	
14 Demurrage charges, if any	ag rannaga)	RE	0.00	0.00	0.00	20
15 Total transportation charges (12+/-	13-141	Rs	0.00	0.00	0.00	0.0
15 Total amount charged for Gas/DII su	The first contract of	Rs	0.00	18,17,19,800.90	13,73,87,835.00	6.74.33.926.0
E) TOTAL COST	Spirit State of State	-		3717177	25,52,47,727,72	71.7222
17 Landed Cost of Gas (2+15) / (1+7)	Pa/100	B SEM/ART		49,009.35	46,536.95	47,330.3
13 Elending Ratio	PE	25		- 8	77	3
104 615 115 25 5 15 15 7						
19 Walghted average cost of Gas						
FI QUALITY		- Dental				
20 GCV of Gas of the opening atock as p	Grant a Contract of the Contra	USCM)	NA.	NA.	NA.	9503.1
21 GCV of Gas supplied as per bill of Ga		I/SCM)	0	9907.08	9515.12	
22 SCV of Gas of the Opening stock as a	100000000000000000000000000000000000000	(/SCM)	NA.	NA	NA.	Nu
23 GCV of Gas supplied as received at st		I/SCM)	0	9607.08	9515 12	9502.3
34 Weight ad average GEV of Gas as rec	ATVES (RE	I/SCM!		9607.08	9515.12	5503 73

Details of Sourcewise fuel for computation of Energy Company				NTPC					
Name of the generating Station			Kawa	s Gas power project					
Month		Apr-23	May-23	Jun-23	Full-23	Aug-23	5ep-23	Oct-23	Nov-23
St. Farticulars	Unit			3335,743			Liquia fuel-Nag	otha/HSD	1,112
A) OPENING QUANTITY	75.112						1-3680-30000	manaraa	
1 Opening Stock of Gas	(1000 SEM)/MT	3,070.58	3,070.58	3,070.38	2,070.52	2,741.22	2,962 11	2,979,74	2,979.74
I Value of Stock	Rs Rs	28.64.20.677.98	28.64.20.877.93	28.64.30.877.93	28,64,20,877,93	27,80,86,678.10	27.80.86.678.10	27.76.76.599.80	17,7E,7E,558.8
6I QUANTITY		. 20,04,20,072.20	20,04;20;277.33	. 44,04,40,474,33	20,04,00,007.200	21,00,00,00,00	27,60,46,076.20	27,76,70,0333.00	4.7,75(7.6,200,0
3 Quantity of gas/RLNG/Liquid fuel supplied by gas	BLOOG SCM I/MT	0.00	0.00	0.00	0	.0	0	: 0	
4 Adjustment (+/-) in quantity supplied made by Gas	(1000 SCW)/MT	0.00	0.00	0.00	01		7	- 0	
The state of the s	(1000 SCM)/MT	0.00	0.00	0.00	0.00	2.00	0.00	0.00	5.00
5 Gas supplied by Gas Company (2+4) 6 hormstive transit & Handling losses	(1000 SCM)/MT	0.00	0.00	0.00	NA	NA NA	7.77	All	no no
TO THE PROPERTY OF THE PARTY OF		0.00	0.00	2.00	0.00	0.00	0.00	0.00	0.0
7 Net gas supplied (5 - 6) CL PRICE	(1000 SCM)/MT	0.00	936	2,00	9.901	9.00	0.00	240	2.0
the first to be a second or the second or th		7.44		2.0		222	2.20	0.00	0.0
B Amount charged by the Ges/Oil Company	Rs Rs	0.00 5.00	0.00	5.00	6.00	-0.00	0.00	0.00	0.0
9 Adjustment (+ / -) In amount charged by Gas				0.00	9				
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00		0		0		
11 Total Amount charged (8+9+10)	RE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
D) TRANSPORTATION	Ra .								
13 Transportation charges by Rall / Ship / Road Transport									- 22
Ey Rail	Rs	5.00	0.00	0.00	0.00	0.00	0.00	0.00	5.0
By Road	Rs	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0,0
ByShip	R¥.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
By Pige	Pa .	0,00	0.00	0.00	0.00	0.00	0.00	0.00	0.0
13 Adjustment (+/-) in amount charged by railways /	Rs	0.00	5.05	0.00	0			ā	
14 Demurrage charges, if any	Ris	5.00	0.00	0.00	0.00	9.00	0.00	0.00	5.0
15 Total transportation charges (12+/-13 - 14)	Rs	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9,0
15 Total amount charged for Gas/Oil supplied including	- RK	0.00	0.00	2.00	9.50	0.00	0.00	0.00	0.0
E) TOTAL COST									
17 Landed Cost of Gas (2+15) / (1+7)	Rs/1000SCM/MT	93,278.94	93,278.94	93,278.94	93,278.94	1,01,424.12	93,220.91	93,188.05	93,188.09
SS Elending Ratio			41	NA NA					- 11
19 Waighted average cost of Gas				NA.					
F QUALITY			10						
20 GCV of Gas of the opening stock as per bill of Gas	(Aca(/SCM)	16A	NA.	NA NA	NA.	NA .	NA.	HA	: 16
21 GCV of Gas supplied as per till of Gas company	(NC4(/SCNI)	11799.24	11299.24	11299.34	11041.51	11799.24	8013.39	9013.39	9013.3
21 SCV of Gas of the Opening stock as received at	(kcal/SCM)	NA.	NA.	NA	NA.	N.A	niA.	NA .	N/
23 GCV of Gas supplied as received at station	(Acal/SCM)	11799 24	11299.34	11299.24	11041.51	11299.34	9013.39	9013.39	9013.3
34 Weighted average GCV of Gas as received	(kcal/SCM)	11299.24	11299.24	11799.24	11041.51	11299.24	9013.39	9013.39	9013.3

	Company					
Т	Name of the generating Station					
Т	Month		Dec-23	Jan-14	Feb-24	Mar-24
5	Particulars	Unit				
A	OPENING QUANTITY					
	Opening Stock of Gas	(1000 SEM)/MT	2,979.74	2.964.11	2,960.57	2,347.2
1	Value of Stock	Rs	27,76,76,538.80	27,60,78,807,46	27.55.23.111.06	27,49,26,303,26
6	QUANTITY					
1	Quantity of gas/RENG/Liquid fuel supplied by gas	BLOOD SCM I/MT	.0	-0		
	Adjustment (+/-) in quantity supplied made by Gas	(1000 SCW)/MT	0	0	- 0	
3	Gas supplied by Gas Company (3+4)	(1000 SEM)/MT	0.00	0.00	0.00	0.00
4	hiprorative transit & Handling losses	(1000 SCM)/MT	NA.	NA.	NA.	No.
3	Net gas supplied (5 - 6)	(1000 SEM)/MT	0.00	0.00	2.00	0.00
c	PRICE			1500		
1	Amount charged by the Gas/Cil Company	RS	0.00	0.00	5.00	6.00
7	Adjustment (+ / -) In amount charged by Gas	Ra	0		0	
30	Handling Sampling and such other Similar charges	Rs		0	0	
ý	Total Amount charged (8+9+10)	Ris	0.00	0.00	0.00	0.0
D	TRANSPORTATION	Ra .				
1	Transportation charges by Rall / Ship / Road Transport					
ī	By Rail	Ra	0.00	0.00	200	2.00
Т	Sy Roed	Rs	3.00	0.00	0.00	0.0
Ī	ByShip	Ris	0.00	0.00	2.00	2.0
Т	By Pipe	Ra	0.00	9.00	9.00	0.0
2	Adjustment (+/+) in amount charged by reliways /	Rs	0		ō	
1	Demurrage charges, if any	Ra	0.00	0.00	0.00	0.00
1	Total transportation charges (12+/- 13 - 14)	Rs	3.00	9.00	0.00	0.00
5	Total amount charged for Gas/Oll supplied including	Ris	0.00	0.00	2.00	0.00
E	TOTAL COST					
1	Landed Cost of Gas. (2+15) / (1+7)	Rs/1000SCM/MT	93,183.05	93,140.58	93,060.92	93,145.9
\$2	Blanding Ratio	-2 -3	100	- 75		
23	Walgnted average cost of Gas					
F	QUALITY					
20	GCV of Gas of the opening stock as per bill of Gas	(kca@SCM)	NA.	NA.	NA.	:30
ž	GCV of Gas supplied as per till of Gas company	(NCS(/SCNI)	9013.38	9013.39	9013.39	9013.39
2	GCV of Gas of the Opening stock as received at	(kcal/SCM)	NA.	NA.	564	N/
2	GCV of Gas supplied as received at station	(Neal/SCM)	9013.39	9013.39	9013.39	9013.39
2	Weighted average GEV of Gas as received	(kcal/SCM)	9013 39	9013.39	5013.39	9013 3

						Add	Part-1 Form-15B ditonal Form			
	C	omputation of	Energy Cha	rges						
SI.No.	Description	Unit		APM Gas	NON APM /COMMITED Gas	LNG	Naphtha			
		Gas/RLNG	Naphtha		GA 5					
					2024-25					
1	Normative Heat Rate (For CC Operation)	(Kcal/kwh)	(Kcal/kwh)		2050					
2	Normative Heat Rate (For OC Operation)	(Kcal/kwh)	(Kcal/kwh)		3010					
3	Capacity	MVV	MW	556.20						
4	Normative Availability Factor	%	%	85.00%						
5	APC for CC operation	%	%	2.75%						
6	APC for OC operation	0	%	1.00%						
7.	Weighted Average Rate of Fuel	Rs/1000SCM	Rs./KL	0.00	53594.47	47177.49	93889.3			
8	Weighted Average GCV of Fuel	Kcal/SCM	Kcal/Kg	0.00	9577.92	9847.86	9944.35			
9	Rate of Energy- Ex Bus-CC	(Paise/kwh)	(Paise/kwh)	0.00	1179.54	1030.78	1990.23			
10	Rate of Energy- Ex Bus-OC	(Paise/kwh)	(Paise/kwh)	0.00	1701.30	1486.74	2870.5			
11	Mode of Operation on Fuel during preceding years (% of Schedule Generation)	2)	14	0.00%	56.77%	45.18%	0.05%			
12	Weighted Average Cost of Fuel as per above in 2024-29- Ex Bus CC	(Paiselkwh)	(Palse/kwh)	1115.70						
13	Weighted Average Cost of Fuel as per above in 2024-29- Ex Bus OC	(Paise/kwh)	(Paise/kwh)		1609.2	0				
14	Closed Cycle operation (CC)	%	%		67.40					
15	Open Cycle operation (OC)	%	%		32.68					
16	Weighted Average Cost of Fuel as per above in 2024-29- Ex Bus CC & OC	(Faise/kwh)	(Paise/kwh)		1276.5	8				
	Below WC Calculation at CC Operation									
17	Year	II.	2024-25	2025-26	2026-27	2027-28	2028-29			
18	No. Of days	Days	365	365	100.70,7	366	366			
19	ESO in a year	MU	4779.54	4779.54	4779.54	4792.84	4779.5			
20	Fuel cost for One month	Rs Lakh	50845.72	50845.72	50845.72	50985.02	50845.7			
21	Fuel cost for 15 days	Rs Lakh	25074.60	25074.80	25074.60	25074.80	25074.80			
22	Cost of Liquid stock for 15 days	Rs Lakh	22.72	22.72	22.72	22.72	22.7			

	<u> </u>			PART-					
_	192410970	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAM		FORM- I					
	States	neut of Capital cost							
-		Carlo de Maria	Aı	nount in Kylakis					
-	e of the Petitioner	NTPC Lid.							
	e of the Generating Station	KAWAS GPS							
COD	g =0/	61.11.1993							
SL	Particulary	2024-25							
Nr.	50.5 E103.4 CE 11								
NAC THE	s'i Opening Gross Black Arunett as just broks	2,34,476,17	264,84	234211.9					
	3rj Administ of EDC in A(6) shore	2,137.05	-	-2,131.0					
	S) Amount of FC in Atabatonic								
	slt Amenit of FERV in Ata) show:	2.870.07	41	7.870.07					
	ch Amesent of Historia Cont in April alterny		17						
	D. Aminor of IEDC in A(u) afterio	-61	14						
	4) Addition to Gross Black Assurant Aging the period								
	(Direct purchases)								
	31) Around of IDC or Big Johns								
13.	c) Amount of FC in B(a) above								
	-it Amount of FERV in Bis) shore:								
	of Amenet of History Cust in Big allows								
	fr Amount of HERC in Blot above								
	THE PROPERTY OF STREET OF STREET OF STREET								
	a) Addition to Gross Black Associated their period. (Transferred from CWIP)								
	20 Amount of IDC in Ctal above								
c	s) Amount of FC in C(a) almos								
	all America of FERV in Cital above:								
	ch Amount of Holaina Cost in Clair above								
	O Amount of IEDC in Clay afters								
_	at Didetion is Grown Rhade Amount disting the puried								
	NJ Adminit of LDC at Dta) above								
	43 Amount of FC in D(u) above								
D	-f) Amount of FERV as D(a) show:								
	sh Amesent of Holaina, Cost in Dict along								
	D Amount of (EDC in D(a) above								
	e) Change Gross Whick American are pur house-								
	No Assume of ODC in Fig.) afters:								
25	s) Amount of FC in F(x) stone								
E	2) Agreement of FERV at Ety) shows								
	\$1. Amount of History, Cost in First shows								
	O Amenor of (EDC in Eta) about								

	Statement	of Capital Works in Progress	4	PART-I FORM- M
Name	of the Petitioner	NTPC Ltd.		
of the second	of the Generating Station	KAWAS GPS		
COD	a the Graetating Station	01.11.1993		
COD		01.11.1993		// T. T. T. T. 11
-		· -		(Amount in Rs Lakh)
Sl. No.	Particulars	+		
		Accrual Basis	2024-25 Un-discharged Liabilities	Cush Busis
	a) Opening CWIP as per books	244.88	10.21	234.67
	b) Amount of IDC in A(a) above			
A	c) Amount of FC in A(a) above			
*	d) Amount of FERV in A(a) above			
	e) Amount of Hedging Cost in A(a) above			
	f) Amount of IEDC in A(a) above			
_	a) Addition in CWIP during the period	1		
	b) Amount of IDC in B(a) above			
201	c) Amount of FC in B(a) above	1		
В	d) Amount of FERV in B(a) above			
	e) Amount of Hedeine Cost in B(a) above			
	f) Amount of IEDC in B(a) above			
_	a) Transferred to Gross Block Amount during the period	1		
	b) Amount of IDC in C(a) above			
c	c) Amount of FC in C(a) above			
	d) Amount of FERV in C(a) above	1	T	
	e) Amount of Hedging Cost in C(a) above			
	f) Amount of IEDC in C(a) above			
	a) Deletion in CWIP during the period	1		
	b) Amount of IDC in D(a) above			
D	c) Amount of FC in D(a) above			
-	d) Amount of FERV in D(a) above			
	e) Amount of Hedging Cost in D(a) above			
	f) Amount of IEDC in D(a) above			
	a) Closing CWIP as per books			
	b) Amount of IDC in E(a) above			
	c) Amount of FC in E(a) above			
Ε	a) Amount of FERV in E(a) above			
	e) Amount of Hedging Cost in E(a) above	1		
	f) Amount of IEDC in E/a) above	10 11		

PART-I FORM- N

Calculation of Interest on Normative Loan

Name of the Company: NTPC Limited
Name of the Power Station: Kawas Gas Power Station

(Amount in Rs Lakh) Existing 2024-25 2025-26 2027-28 S. No. Particulars 2026-27 2028-29 2023-24 5 1 3 6 1,05,250.91 1.05.484.01 1 Gross Normative loan - Opening 1,05,098.92 1,07,672.36 1.08,624.36 1.08.666.36 Cumulative repayment of Normative loan up to 2 1.05.098.92 1.05,250.91 1.05.484.01 1.07.040.66 1.08.624.36 1.08.666.36 previous year Adj. in repayment due to liability discharge* 3 0.00 0.00 0.00 0.00 0.00 0.00 4 Adj. in repayment due to decap* 16.90 0.00 0.00 0.00 0.00 0.00 Net Normative loan - Opening 631.70 5 0.00 Add: Increase due to addition during the year / б 2188.34 952.00 42.00 42.00 74.95 233.10 period Less: Decrease due to de-capitalisation during the 7 -16.900.00 0.00 0.00 0.00 0.00 year / period Less: Decrease due to reversal during the year / 0.00 0.00 0.00 0.00 8 0.00 0.00 period Add: Increase due to discharges during the year / 0 93.95 0.00 0.00 0.00 0.00 0.00 period Less: Repayment of Loan 168.90 233.10 1556.64 1583.70 42.00 42.00 10 Net Normative loan - Closing 11 0.00 631.70 315.85 Average Normative loan 0.00 315.85 12 0.00 Weighted average rate of interest (%) 13 8.0228 8.0161 8.0059 8.0051 8.0038 8.0008 Interest on Loan 0.00 25.28 14 0.00 25.29 0.00 0.00 Cumulative repayment of Normative loan at the 1.05.250.91 1,07,040.66 1,08,666.36 1.08,708.36 15 1,05,484.01 1.08.624.36 end of the period after adjustments

*Additional data

(Petitioner)

PART 1 FORM- O

Calculation of Interest on Working Capital

Name	of the Company :	NTPC Limite	d				
	of the Power Station :	Kawas Gas P	ower Station				
						(Amount	in Rs Lakh)
S. No.	Particulars	Existing 2023-24	2024-25	2025-26	2026-27	2027-28	2028-29
1	2	3	4	5	6	7	8
1	Cost of Coal/Lignite						
2	Cost of Main Secondary Fuel Oil						
3	Fuel Cost	1,00,967.12	25,074.60	25,074.60	25,074.60	25,074.60	25,074.60
4	Liquid Fuel Stock		22.72	22.72	22.72	22.72	22.72
5	O & M Expenses	1,293.01	1186.14	1257.84	1333.64	1414.84	1501.64
6	Maintenance Spares	4,654.83	4270.11	4528.21	4801.11	5093.41	5405.89
7	Receivables	1,60,313.04	80875.02	80255.40	80448.05	80390.36	80468.22
8	Total Working Capital	267227.99	111428.59	111138.77	111680.11	111995.92	112473.07
9	Rate of Interest	12.0000	11.9000	11.9000	11.9000	11.9000	11.9000
10	Interest on Working Capital	32067.36	13260.00	13225.51	13289.93	13327.51	13384.30

Petitioner

Summary of issue involved in the petition

	of the Company :	NTPC Limited						
Name of the Power Station :		Kawas Gas Power Station						
1	Petitioner:	NTPC Limited	NTPC Limited					
2	Subject	Approval of tariff of Kawas (656.20 MW) for the period from 01.04.2024 to 31.03.2029						
3	Prayer: i) Approve tariff of Kawas GPS for the tariff period 2024-29. ii) Allow the recovery of filing fees as & when paid to the Hon'ble Commission and publication expenses from the beneficiaries. iii) Allow the recovery of pay/wage revision as additional O&M over and above the normative O&M. iv) Pass any other order as it may deem fit in the circumstances mentioned above.							
4	Respondents Six(4) nos of respondents							
	Name of Respondents							
5	1 MSEDCL, Maharashtra 2.GUVNL, Gujarat 3.Eletricity Deptt, Goa 4.DNHDDPDCL							
	Cost (Approved cost) (In Rs Crore)							
	Claim	2024-25	2025-26	2026-27	2027-28	2028-29		
	AFC (Rs Lakh)	1100000000	40811.82	42374.42	42021.28	42538.05		
	2	45837.66	40811.82	C 5000 (1000 (1000))	42021.20	42330.03		
-	Capital cost(Rs Lakh)	1,92,297.64	1,94,027.24	ASSISTANCES	1,96,980.35	A 050 350 3		
		000000000000000000000000000000000000000	De aversesses	ASSISTANCES	100000000000000000000000000000000000000	A 050 0550		
	Capital cost(Rs Lakh) Initial spare NAPAF (Gen)	1,92,297.64	De aversesses	ASSISTANCES	100000000000000000000000000000000000000	1,97,040.3		





KWS-012-LMI-OD-OPS-ELEC-004 Dated: 11.10.2023 Capacity Testing of DC Batteries

- The measurement shall normally be taken hourly (0.2 C 5 discharging) but voltage shall be checked at 5 to 10 minutes interval when the total battery voltage has fallen below 1.05 x n.
- Discharging of the battery bank is to be continued up to achieving of end voltage 1.0 x n,
 (do not stop the discharging on achieving 100% capacity). Do not bypass or remove any cell during the discharge even if the voltage of lagging cells falls below 1.0 volts or reverse polarity is observed, however these weak cells can be identified and replaced by healthy ones later.
- Apply temperature correction to the capacity achieved as per curve
 Capacity Calculation = Amperes x Hours x Temperature correction.
- 4.4 The replacement of battery banks shall be as per the table below:

S.no.	Battery type	Replacement criteria
I	Lead Acid-Tubular	Capacity 80 % or 10 years of service life whichever is earlier
2	Lead Acid- Plante	Capacity 80 % or 20 years of service life whichever is earlier
3	Nickel Cadmium	Capacity 85 % or 10 years of service life whichever is earlier

4.5 A report shall be prepared after the completion of capacity test of each battery bank which shall include details of weak cells, replacement action and the actual capacity observed during the test.

5.0 RESPONSIBILITY

The head of electrical maintenance shall be responsible for maintenance of records, of these tests and taking corrective action where necessary

NTPC LIMITED

NTPC Bhawan, Scope Complex, 7, Institutional Area New Delhi 110003 India

September 13, 2023



Control Component India Pvt. Lt APIIC Industrial Park, Door no, 282-1D, Kadalur Village, Sullurpet, Sri Potti Sriramulu Nellore, Andhra Pradesh — 524401

Replacement of existing Positioning card GC02 cabinet with SmarTrak card- ST2 for HP/LP Bypass Valves

IMI CCI Budgetary Proposal 221201-102101-1 Rev 1

Customer Ref. # E-mail

K/Attn: Mr Niray Dhruy

Dear Sir,

We thank you for your above referenced inquiry and for giving IMI CCI the opportunity to be of service to you. Enclosed is a budgetary Techno-commercial proposal based on the information that was provided. IMI CCI looks forward to receiving all the necessary information to provide a formal quote. If at any time during the development design stages assistance is needed in regards to control valves and/or the overall system please feel free to reach out to us for assistance or with questions.

IMI CCI takes pride in our experience of over 50 years in the industry, specializing in providing solutions for severe service applications and having many principal engineers or "Valve Doctors" who are available at your convenience.

Thank You,

Your Factory Sales Contact

Ashwini Thangaraj

Sr.Engineer- Inside Sales- MEA & India

Phone: +91 9611706937

E-mail: ashwini.thangaraj@imi-critical.com

Your Local Sales Contact

Akash Bhatiya

Sr. Engineer- Outside Sales Phone: +91 8320564572

E-mail: akash.bhatia@imi-critical.com





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Project Replacement of existing Positioning card GC02 cabinet with SmarTrak card- ST2 for HP/LP Bypass Valves

Customer NTPC LIMITED

Customer ref. No. E-mail

Proposal # 221201-102101-1 Date of issue Sep 13, 2023



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- · Scope of Supply (Priced)
- Technical Notes
- Commercial Notes
- . IMI CCI Standard T&Cs
- Product Brochure



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Bid Tabulation - Scope of Supply

Project Replacement of existing Positioning card GC02 cabinet with SmarTrax card- ST2 for HPILP Bypass Valves

Customer NTPC LIMITED Customer Rat # E-mail

Proposal # 221201-102101-1 2023-09-13 Date of leade



Budgetary Technical & Commercial Summary 1

March 11	VO No.	Service	Marchael Marchael	Unit Price	QTY	Extd. Price
item			Description / Features			INR
*	VO# 249485	HP & LP Bypass system	GC02 to SmartTrak-ST2 upgrade: The proposed New SmartTrak Cabhet consists of the following items: * 4 x SmartTrak2 Controller for insounting in existing control cabinet * 4 x Power transformer 230/AC/24/DC 10A and relevant fuses * 4 x LVD-3 position transducer signal conditioner including fuse for mounting in existing cabinet * USS cable for taptop connection * Necessary Drawlings * Operation and Maintenance Manual 2 SmartTrak controller cabinets are required for 4 valves in the HP Bypass unit and another 2 SmartTrak controller cabinets are required for 4 valves in the HP Bypass unit and another 2 SmartTrak controller for 4 valves in the LP Bypass unit. HPBP - 1 x steam conditioning Valve, 1 x Spray Control Valve and 2 x Spray Block Valve. LPBP - 1 x steam shut-off valve, 1 x steam conditioning Valve, 1 x Spray Control Valve and 1 x Spray Block Valve. LPBP - 1 x steam shut-off valve, 1 x steam conditioning Valve, 1 x Spray Control Valve and 1 x Spray Block Valve. HP Bypass Valve accessories for 2 units * 4 x LVDT Position transducer RAG 2000 HR (0-100 mm), including 20 m cable and connector 4 x Proportional hydraulic scleroid valve * Set of Cables with DiN-connector for hydraulic valves * Dott set for hydraulic valves * 4 x Directional hydraulic scleroid control valve * 4 x Directional hydraulic scleroid valve * 5 set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves * Set of Cables with DiN-connector for hydraulic valves	₹54,44,630.00	(A	₹ 2,17,78,520.0

Sub Total ₹ 2,17,78,520.00 Commercial Notes: Shipping EXW Included 1) Delivery (per incoterms 2010) TOTAL CONTRACT VALUE ¥ 2,17,78,520.00

1.1) Location IMI CCI Nellore, Andra Pradesh 1.2) Incotern 2010 EXW IMI CCI Nellore

1.3) Delivery: 35 weeks after technical and commercial clarified order.

2) Prices

2.1) Currency INR, excl. VAT and other taxes, fees 2.2) Validity: 30 days from date of offer 2.3) Payment Payment terms shall be as per below:

100% advance payment along with the Purchase Order

Mosse:

1) Please see the attached Terms and Conditions.

2) Based on the size of the opportunity partial delivery may occur.

3) The prices are based on the quantity of components per design, if less are required IMI CCI reserves the right to adjust pricing.

4) IMI OCTs encissed budgetary proposal is being provided for planning purposes only and does not represent a firm commitment on behalf of IMI OCT. This is because IMI OCT is unable to provide a firm commitment for the effort without mutually acceptable terms and conditions, accept of supply and detailed.



HPBP Controller Upgrade-NTPC-Kawas



Technical Notes:

We have received a request from NTPC LIMITED to replace the existing Positioning card GC02 cabinet with SmarTrak card- ST2 for HP/LP Bypass Valves installed in NTPC-Kawas Power Plant. Since the existing controller card is obsolete, customer wants to upgrade it with the new controller.

The existing is GC02 Positioning card which is obsolete and hence we are proposing an upgraded new model SmarTrak2 controller against existing Serial no. 249485.

2 SmartTrak controller cabinets are required for 4 valves in the HP Bypass unit and another 2 SmartTrak controller for 4 valves in the LP Bypass unit.

As requested by M/s. NTPC Limited, IMI has provided the below accessories for HP & LP Bypass valves.

- LVDT Position transducer
- Proportional hydraulic solenoid control valve
- Directional hydraulic solenoid valve
- Set of Cables with DIN-connector for hydraulic valves
- Bolt set for hydraulic valves

Notes:

- The ST-2 controllers to be mounted in existing control cabinet, replacing the existing and obsolete 2-channel PCS in the same cabinet.
- Signal interphase with DCS will be the same as existing interphase, however, some internal cabling will need to be re-wired.
- A new position transmitter amplifier is included to replace the existing and obsolete amplifier. To be mounted in the existing cabinet, located on the HVP.
- Installation material (like extra cables and cable tags) is NOT included.
- Position transmitters (LVDT) are selected to fit on existing valve yokes, including 20
 m cable and connector.
- New proportional and directional valves are offered to fit on existing valve blocks on the HVP's.
- Cable set for proportional and directional valves is included (3 m each).



HPBP Controller Upgrade-NTPC-Kawas



- Bolt set for hydraulic valves are included.
- Documentation includes the electric diagrams and O&M manual.
- Installation material other than offered above like cables, screws, hydraulic tubes etc. is not included in IMI scope of supply.
- IMI CCI Field Service is recommended Installation and commissioning of the upgrade, FS quoted would be issued separately as per customer request.
- With reference to the Actuator picture provided from site, the limit switches are missing. We assume that they are removed from the valves and is not needed. Customer to confirm whether limit switches are required or not.



Commercial Notes

Replacement of existing Positioning card GC02 cabinet with SmarTrak card- ST2 fo Project Customer

NTPC LIMITED

Customer Ref No. IMI CCI Proposal #

E-mail 221201-102101-1

Date of Issue 13-Sep-23



Prices are in INR excl. VAT and other taxes based on following terms and conditions. Prices:

36 Delivery time: weeks EXW CCI Nellore

after receipt of technical and commercially clear order.

Indicated delivery time is based on actual factory load. If delivery requirements differ, expediting will be

investigated upon request.

Terms of delivery: **EXW** CCI Nellore (Incoterms 2010)

IMI CCI reserves the right to perform (manufacture) the work in any of its fully certified facilities.

In view of the COVID-19 / coronavirus pandemic (the "Pandemic"), any lead or delivery times agreed between the parties shall be indicative only. Customer acknowledges that Supplier / IMI CCI has no control over the impact of this Pandemic and that Supplier reserves its right to change or amend the indicated lead or delivery times depending on the current circumstances at any time, even after placement and acceptance of a purchase order, In case of any delay in delivery or performance directly or indirectly caused by, or due to, the Pandemic, including but not limited to governmental acts or decrees, quarantine restrictions, disruption of supply chains or transportation channels of freight, disruption of production through increased sickness leave, and shortage of

materials Supplier / IMI CCI shall not be in default and is excused from performance of its obligations and not be liable for delay or any liquidated damages as long as the situation directly or indirectly caused by the Pandemic

continues.

IMI CCI standard export packing included. (available on Request) Packing:

IMI CCI Standard painting procedure is considered. (available on Request) Painting.

Documentation: Price includes IMI CCI standard documentation (2 sets), English Version.

Proposal based on IMI CCI standard QCP and certificates. (available on Request) QCP:

Warranty Seller warrants title and that the goods will be free from defects in materials or workmanship under normal use and service until the expiration of the earlier of twelve (12) months from the date of initial operation or eighteen

(18) months from the date of shipment.

Warranty on repairs shall be valid till the end of the original warranty period and replaced part would have 12 months warranty from the date of replacement which shall end in any event one year after the original warranty period. The warranty expressly does not cover soft goods required to inspect or maintain any part of the equipment damage to the extent resulting from failure to keep equipment in good repair. The validity of the foregoing warranty requires adherence to CCI installation, startup and maintenance guidelines and the use of equipment in accordance with specified operating conditions. In case of a defect the purchaser or the end-user shall provide free access to the goods and all information available to support detecting the root cause of the

problem.

Payment Terms Payment terms shall be as per below:

100% advance payment along with the Purchase Order

Commercial Notes

Replacement of existing Positioning card GC02 cabinet with SmarTrak card- ST2 fo Project Customer

NTPC LIMITED

Customer Ref No. E-mail

IMI CCI Proposal # 221201-102101-1 Date of Issue 13-Sep-23

IMI CCI

Limitation of Liability

Notwithstanding any other provision in this agreement to the contrary, Seller's and its affiliates' maximum aggregate liability for any and all claims, damages and losses arising out of any cause whatsoever (whether such cause be based in contract, negligence, warranty, strict liability, tort or otherwise) shall not exceed the contract price, except for any gross negligence and/or willful misconduct of the Seller.

Notwithstanding any other clause in this agreement to the contrary neither Buyer nor the Seller shall be responsible to the other party for consequential damages or indirect losses of any kind, such as but not limited to loss of profit or revenue, loss of energy or production, loss of product or use, any costs of business interruption, loss of customers or contracts, costs of substitute energy and similar costs.

The Seller shall not be liable at all on any ground whatsoever if damages and losses are caused by the product not being stored, handled, installed, operated, maintained and repaired properly by the Buyer or any other party according specifications and manuals provided by Seller.

This entire clause shall also apply for all on site work performed by Seller, its affiliates or its agents or sub-sellers.

Indemnity

Subject to the Limitation of Liability, Seller shall indemnify and hold harmless Buyer from and against all third party claims to the extent resulting from Seller's negligent acts or omissions, where there is a duty to act, arising from Seller's performance under the contract, including injuries to persons and damages to property.

Validity: 30 days from the date of submittal.

Order and invoicing: Order to be placed to our office:

Control Component India Pvt. Ltd.

APIIC Industrial Park, Door no. 282-1D, Kadalur Village, Sullurpet, Sri Potti Sriramulu Nellore, Andhra

Pradesh - 524401.

Cancellation Charges

Cancellation charges shall be below based on the number of days after receipt order and in percentage of the

total P.O. Value

o From PO date until 6 weeks after PO: 15%

o From 7 weeks after PO until 12 weeks after PO: 30% o From 13 weeks after PO until 18 weeks after PO: 70%

o From 19 weeks after PO until 7 weeks before contractual delivery: 90% o From 6 weeks before contractual delivery until contract delivery date: 100%

Taxes and Duties IGST @ 18% shall be applicable over the quoted price.

IMI CCI conducts its business in an ethical and legal manner and is committed to obey the law in all countries where we do business, in particular the U.S. Foreign Corrupt Practices Act and other countries' anti-bribery laws. As a result, this proposal from IMI CCI is expressly conditioned on the agreement of the counterparty not to engage in bribery or any other corrupt activities in connection with the sale of IMI CCI products or services.

IMI CCI's enclosed budgetary proposal is being provided for planning purposes only and does not represent a firm commitment on behalf of IMI CCI. This is because IMI CCI is unable to provide a firm commitment for the effort without mutually acceptable terms and conditions, scope of supply and detailed project schedule.

For all Terms not mentioned in this T&C's, IMI CCI's latest Standard Terms and Conditions applies. (attached)

IMI CCI's Standard Terms and Conditions of Sale for Goods and Services (Rev.0 August 2016)

IMI CCI is referred to in these terms and conditions as "Seller" and the customer or person or entity purchasing goods, services, parts and materials from Seller is referred to as "Buyer". "Goods" and/or "Services" mean the products, parts and materials manufactured by Seller or the services rendered, both as set out in Seller's technical documentation and quotation.

1. BASIS OF CONTRACT

These terms and conditions shall apply to any contract concluded (the "Contract") for the sale or supply of Goods and/or Services from Seller to Buyer whether the Contract for such sale is concluded by acceptance by Seller of Buyer's purchase order or by acceptance by Buyer of Seller's quotation, unless the parties expressly agree in writing in the Contract that these terms and conditions shall not apply to a specific Contract. In the event of a conflict between the pre-printed terms provided in any purchase order or other document and these terms and conditions, these terms and conditions shall prevail. All inconsistent or additional terms and conditions in any Buyer acknowledgement, invoice or other forms or which Buyer may seek to impose or incorporate by trade practice are expressly objected to and rejected by Seller and shall not bind Seller unless expressly agreed to in writing including as stated on Seller's quotation or sales order acknowledgement.

2. PRICE AND PAYMENT

- 2.1 Unless otherwise specified in writing by Seller, the price quoted or specified by Seller for the Goods and/or Services shall remain in effect for thirty (30) days after the date of Seller's quotation, or acknowledgment of Buyer's order for the Goods and/or Services, whichever occurs first, provided an unconditional authorisation from Buyer for the supply of the Goods and/or Services is received and accepted by Seller within such time period. If such authorisation is not received and accepted by Seller within such thirty (30) day period, Seller shall have the right to change the price for the Goods and/or Services.
- 2.2 Once accepted, the price will become firm, however, Seller shall be entitled to increase such price to take account of cost escalation in the event that delivery of the Goods or provision of the Services is delayed beyond standard delivery schedules for reasons outside of the control of Seller and/or to take account of foreign currency fluctuations where the same differ from currency exchange assumptions in Seller's proposal.
- 2.3 Unless otherwise specified in Seller's quotation, payment terms are net thirty (30) days after the date of invoice. Any amounts not paid when due shall bear interest at the rate of 1.5% per month or at the highest rate permitted by law (whichever is less) from the due date until paid.
- 2.4 If Buyer defaults in any payment when due, Seller, without incurring any liability to Buyer or any other party, may, at its option and in addition to other remedies available, declare all work complete with payment immediately due and payable together with interest as provided in the preceding paragraph on all outstanding amounts due therein; stop all further work and deliveries until all past due payments and interest have been made and/or require that any further deliveries be paid for prior to shipment. If requested by Seller, Buyer shall obtain a bond or other security to provide guarantees of payment to Seller.
- 2.5 As and if requested by Seller, Buyer shall at its expense establish and keep in force payment security in the form of an irrevocable, unconditional, sight letter of credit or bank guarantee allowing for pro-rata payments as Goods are shipped and Services are performed, plus payment of cancellation and termination charges, and all other amounts due from Buyer under the Contract ("Payment Security"). The Payment Security shall be (a) in a form, and issued or confirmed by a bank acceptable to Seller, (b) payable at the counters of such acceptable bank or negotiating bank, (c) opened at least sixty (60) days prior to both the earliest scheduled shipment of Goods and commencement of Services, and (d) remain in effect until the latest of ninety (90) days after the last scheduled Goods shipment, completion of all Services and Seller's receipt of the final payment required under the Contract. Buyer shall, at its expense, increase the amount(s), extend the validity period(s) and make other

appropriate modifications to any Payment Security within ten (10) days of Seller's notification that such adjustment is necessary in connection with Buyer's obligations under the Contract.

2.6 Seller is not required to commence or continue its performance unless and until any required Payment Security is received, operative and in effect and all applicable milestone payments have been received. For each day of delay in receiving all applicable milestone payments or acceptable Payment Security, Seller shall be entitled to a matching extension of the schedule. If at any time Seller reasonably determines that Buyer's financial condition or payment history does not justify continuation of Seller's performance, Seller shall be entitled to require full or partial payment in advance or otherwise restructure payments, request additional forms of Payment Security, suspend its performance or terminate the Contract.

3. TAXES AND OTHER CHARGES

Unless otherwise specified in writing by Seller: (a) transportation and insurance charges shall be based upon point of manufacture and shall be paid by Buyer, (b) installation charges shall be borne by Buyer, and Seller has no obligation to install the Goods for Buyer and (c) any taxes, duties or other charges imposed or incurred in relation to the performance of the obligations contemplated in the Contract shall be borne by the party that incurred such obligation or as the law specifically provides as being responsible for such tax, duty or other charge.

4. DELIVERY, RISK AND TITLE

- 4.1 Unless otherwise specified in Seller's quotation, delivery of the Goods shall be ex works (EXW, Incoterms 2010) Seller's manufacturing facility. Delivery shall be deemed to be completed when Seller informs Buyer in writing that the Goods are ready for shipment and can be picked up at the delivery location ("Delivery"), upon which time the risk to the Goods shall pass to Buyer. If Buyer delays shipment on notification of completion of the Goods, if Buyer fails to collect the Goods after Seller's notification or if Seller has agreed to deliver the equipment other than ex works and shipment is postponed by or due to Buyer's delay or request, Seller may tender delivery and store the equipment at Buyer's expense (and at a rate of 1% of contract value per month) and risk. Such tender shall constitute delivery and the full purchase price for the Goods tendered shall be immediately due and payable by Buyer.
- 4.2 Any claims regarding shortages in delivery must be made within thirty (30) days from Delivery and must be accompanied by the packing list(s) covering the shipment.
- 4.3 Title shall only pass upon receipt of full payment of the purchase price for the Goods by Seller.
- 4.4 Performance of the Contract is contingent upon Buyer supplying to Seller, when needed, all required technical information, including drawing approval and all required commercial documents, delivery instructions and other instructions required for the supply of the Goods. Unless otherwise agreed, Seller shall have the right to make partial deliveries.

5. WARRANTY

- 5.1 Subject to the limitation of liability and the conditions set out below and unless otherwise specified in Seller's quotation, Seller warrants title to the Goods, that the Goods, upon delivery, shall conform with the specifications listed in the Contract (or to Seller's currently published specifications if there are no specifications in the Contract) and shall be free from defects in material and workmanship. The warranty period shall expire on the earlier of twelve (12) months from the date of commissioning or eighteen (18) months from the date of Delivery to Buyer.
- 5.2 Subject to the limitation of liability and the conditions set out below and unless otherwise specified in Seller's quotation, Seller warrants that in performing the Services, it will exercise all reasonable skill, care and due diligence and shall perform the Services in accordance with professional practice. Seller warrants that all Services performed shall be free from faulty workmanship for a period of ninety (90) days from completion of the Services.
- 5.3 The above warranties are given by Seller subject to the following conditions:
- (a) Seller shall be under no liability in respect of any defects arising from any drawing, design or specification supplied by Buyer or if the Goods differ from their specification as a result of changes made to ensure that they comply with applicable statutory or regulatory standards;

- (b) Seller shall be under no liability in respect of any defects arising from fair wear and tear, wilful damage, negligence, abnormal working conditions, failure to follow Seller's instructions, storage, installation, start up, maintenance and repair guidelines, modification, disassembly, alteration or repair of the Goods without Seller's written approval or where the Goods have been subject to corrosion or have been misused, mishandled or improperly installed;
- (c) Seller shall be under no liability under the above warranties (or any other warranty, condition or guarantee) if the total price of the Goods has not been paid by the due date for payment;
- (d) the above warranties do not extend to the supply of soft goods required to inspect or maintain any part of the Goods supplied;
- the above warranties does not extend to parts, materials or equipment not manufactured by Seller in respect
 of which Buyer shall only be entitled to the benefit of any such warranty or guarantee as is given by the
 manufacturer to Seller;
- (f) Seller shall be under no liability if Buyer makes any further use of the Goods after giving notice in accordance with clause 5.5.

5.4 Any claim by Buyer which is based on any defect in the quality of the Services shall be notified to Seller as soon as possible within the warranty period. Failure by Buyer to give such written notice within the applicable time period specified above shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Seller's liability is limited solely to correct performance of that portion of the Services found by Seller to be defective or at Seller's option, refunding to Buyer purchase price allocable to the nonconforming part of the Services.

5.5 Any claim by Buyer which is based on any defect in the quality or condition of the Goods or their failure to respond to specification shall be notified to Seller within 30 days from the date of Delivery or (where the defect or failure was not apparent on a reasonable inspection) within a reasonable time after discovery of the defect or failure during the warranty period. Failure by Buyer to give such written notice within the applicable time period specified above shall be deemed an absolute and unconditional waiver of Buyer's claim for such defects. Buyer shall only have the right to reject Goods that do not conform to Seller's warranties.

5.6 Seller must receive written notice of any defect within the warranty period and be given a reasonable opportunity to examine the Goods and all information available so that Seller can detect the root cause of any defect. Seller's liability is limited solely to repair or replacement of any Good at Seller's point of manufacture or, at Seller's option, refunding to Buyer the purchase price allocable to the nonconforming portion of the Contract. However, for Goods not installed by Seller, Buyer shall be responsible for removal, return and reinstallation costs.

5.7 Before returning any Goods to Seller, Buyer must contact Seller for a return authorisation confirmation and provide a failure report detailing the claimed warranty defect or failure. Upon return confirmation, Buyer will return the Goods to Seller, freight prepald. After Seller verifies that the Goods were nonconforming or defective under this clause 5, Seller will credit Buyer for the cost of returning the Goods. Unless approved in advance by Seller, Seller shall not be liable for any transportation charges for the return of the Goods nor any other costs or charges incurred by Buyer. Goods repaired and parts replaced during the warranty period shall be in warranty for the remainder of the original warranty period.

5.8 Subject to this clause 5, SELLER MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, NON-INFRINGEMENT OR ANY OTHER MATTER WITH RESPECT TO THE GOODS AND/OR SERVICES, whether the Goods are used alone or in combination with any other material. BUYER IS NOT AUTHORISED TO MAKE ANY WARRANTY OR ASSUME ANY OBLIGATION OR LIABILITY ON SELLER'S BEHALF IN CONNECTION WITH THE SALE, INSTALLATION OR USE OF THE GOODS. Seller's warranties shall not be enlarged by, nor shall any obligation or liability of Seller arise due to, Seller providing technical advice concerning processing, further manufacture, other use or resale of the Goods provided hereunder.

6. LIMITATION OF LIABILITY

6.1 This clause sets out the entire financial liability of Seller (including any liability for the acts of omissions of their respective employees, agents and subcontractors) to Buyer in respect of (i) any breach of the Contract howsoever

arising, (ii) any use made or resale of the Goods by Buyer, or of any product incorporating any of the Goods, and (iii) any representation, statement or tortuous act or omission (including negligence) arising under or in connection with the Contract.

6.2 NOTHING IN THIS CONTRACT SHALL LIMIT OR EXCLUDE SELLER'S LIABILITY FOR DEATH OR BODILY INJURY RESULTING FROM NEGLIGENCE, FRAUD OR FRAUDULENT MISREPRESENTATION, OR OTHER LIABILITIES WHICH CANNOT BE EXCLUDED BY LAW.

6.3 WITHOUT PREJUDICE TO CLAUSE 6.2, SELLER SHALL NOT UNDER ANY CIRCUMSTANCES WHATSOEVER BE LIABLE TO BUYER IN CONTRACT, TORT (INCLUDING NEGLIGENCE), STRICT LIABILITY, WARRANTY, INDEMNITY OR OTHERWISE FOR ANY (I) LOSS OF ANTICIPATED PROFITS OR REVENUES, (II) LOSS OF USE OR ANY LOSSES IN RELATION TO BUSINESS INTERRUPTION, (III) LOSS OF PRODUCTION, (IV) NON-OPERATION OF OTHER EQUIPMENT, (V) COST OF CAPITAL, (VI) DOWNTIME COSTS (VII) COST OF PURCHASED OR REPLACEMENT POWER AND/OR FACILITIES, (VIII) DAMAGE TO ENVIRONMENT, (IX) CLAIMS OF CUSTOMERS OF BUYER FOR DAMAGES OR (X) INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE OR CONSEQUENTIAL DAMAGES THAT ARISES UNDER OR IN CONNECTION WITH THE CONTRACT, EVEN IF SELLER IS ADVISED IN ADVANCE OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.

6.4 WITHOUT PREJUDICE TO CLAUSE 6.2, SELLER'S TOTAL LIABILITY WITH RESPECT TO ANY AND ALL CLAIMS; LOSSES AND DAMAGES ARISING OUT OF ANY CAUSE WHATSOEVER (WHETHER SUCH CAUSE BE BASED IN CONTRACT, TORT (INCLUDING NEGLIGENCE) STRICT LIABILITY, WARRANTY OR OTHERWISE) RELATED HERETO SHALL IN NO EVENT EXCEED THE CONTRACT PRICE OF THE GOODS OR SERVICES IN RESPECT OF WHICH SUCH CAUSE ARISES.

6.5 All Seller liability shall end upon expiration of the applicable warranty period, provided that Buyer may continue to enforce a claim for which it has given notice prior to that date by commencing an action or arbitration, as applicable under this Contract, before expiration of any statute of limitations or other legal time limitation but in no event later than one year after expiration of such warranty period.

6.6 If Buyer is supplying Goods or Services to a third party, or using Goods or Services at a facility owned by a third party, Buyer shall either (i) indemnify and defend Seller from and against any and all claims by, and liability to, any such third party in excess of the limitations set forth in this Clause 6, or (ii) require that the third party agree, for the benefit of and enforceable by Seller, to be bound by all the limitations included in this clause 6.

- 6.7 The following terms ("a" through "c") apply specifically to all projects involving nuclear applications:
- (a) Buyer (including for the purpose of this clause Owner/Operator) agrees to hold harmless, indemnify and keep indemnified Seller (for and on behalf of itself and each of its group undertakings, and their respective officers and employees) (each an Indemnified Person) from and against all losses, liabilities, obligations, claims (Including claims from third parties), demands, damages, penalties, expenses and fees suffered or incurred by Seller or any other Indemnified Person, arising out of any actual or alleged nuclear damage caused by the Goods or which otherwise occurs in consequence of the performance of or failure to perform the Contract, whether by Seller, or any sub-contractors of Buyer or Seller, and any actual or alleged nuclear damage arising in consequence of any activities from time to time carried out in relation to the Contract, whether or not resulting from the negligence of Seller.
- (b) Buyer undertakes to provide and to maintain, or procure that Owner/Operator of the site provides and maintains, throughout the operational life of the site and for ten years thereafter, insurance covering nuclear damage. Such policy will be placed with recognised international Nuclear Pools (Liability and Property) on industry standard terms, will provide for all suppliers and sub-suppliers to be covered as additional insured and will include a waiver of subrogation for the benefit of Seller. Buyer will pay any deductible applicable to such insurance (or, as applicable, procure that Owner/Operator pays such deductible). Buyer will provide a copy of the insurance certificate to Seller upon written request.
- (c) In this clause, the term "liability" means any form of liability or obligation whatsoever including but not limited to liability for nuclear damage (as defined below) and liability for misrepresentation, under contract, common

law, equity or any statutory provision whether or not based on negligence or breach of any express or implied duty to act with care or skill. The term "nuclear damage" means injury or death to persons and damage to any property or facility and/or damage or harm to the environment, natural resources, flora and fauna (and including the property and/or facility of Buyer and Owner/Operator and/or the site) arising out of or resulting from radioactive, toxic, explosive or other hazardous properties (or any combination of such properties) of any nuclear matter in connection with which the Goods are directly or indirectly used, including but not limited to ionizing radiation or contamination by radioactivity from any nuclear fuels, radioactive products or any nuclear waste from the combustion of nuclear fuels coming from, originating in, or sent to, any site at which the Goods are to be installed and/or used, whether or not such injury, death or damage results from the negligence of Seller.

7. CHANGES

- 7.1 Each party may at any time propose changes in the schedule or scope of Goods or Services. Seller is not obligated to proceed with any change until both parties agree upon such change in writing. The written change documentation will describe the changes in scope and schedule, and the resulting changes in price and other provisions, as agreed.
- 7.2 The scope, Contract Price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or regulations. However, no adjustment will be made on account of a general change in Seller's manufacturing or repair facilities resulting from a change in laws or regulations applicable to such facilities. Unless otherwise agreed by the parties, pricing for additional work arising from such changes shall be at Seller's time and material rates.
- 7.3 Seller reserves the right to change or modify the design and construction of any of its products, in due course of its manufacturing procedure, without incurring any obligation to furnish or install such changes or modifications on products previously or subsequently sold. Seller also reserves the right to amend the specifications of the Goods if required by any applicable statutory or regulatory requirements.
- 7.4 In the event of a significant delay or price increase of raw materials during the performance of the Contract through no fault of the Seller, the Contract price, time of completion or contract requirements shall be equitably adjusted via Change Order in accordance with the procedures of the Contract documents. A change in raw material price will be considered significant when the price of an item increases by 3% based on the London Metal Exchange (LME) index between the date of proposal and the date of purchase of raw materials. Seller shall have the right to cancel the Contract or Order, without damages, if Buyer does not agree to an equitable price adjustment due to a significant increase in price of raw materials. As a condition to causing any price adjustment, Seller shall give Buyer at least ten (10) days prior written notice of any such changes, along with the written justification thereof (i.e., evidence of increase in third party costs) and provide Buyer with a detailed schedule of Supplier's new pricing. Any change in price shall be effective upon ten (10) days written notice to Buyer of such change.

8. TERMINATION AND SUSPENSION

- 8.1 Buyer may terminate the Contract (or the portion affected) for cause if Seller (i) becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for it or any of its assets, or files or has filed against it a proceeding under any bankruptcy, insolvency, dissolution or liquidation laws, or (ii) commits a material breach of the Contract which does not otherwise have a specified contractual remedy, provided that:
 (a) Buyer shall first provide Seller with detailed written notice of the breach and of Buyer's intention to terminate the Contract, and (b) Seller shall have failed, within 30 days after receipt of the notice, to commence and diligently pursue cure of the breach
- 8.2 Seller may suspend or terminate the Contract (or any affected portion thereof) immediately for cause if Buyer (i) becomes insolvent, makes an assignment for the benefit of its creditors, has a receiver or trustee appointed for it or any of its assets, or files or has filed against it a proceeding under any bankruptcy, insolvency dissolution or liquidation laws, or (ii) materially breaches the Contract, including, but not limited to, a breach by the Buyer of clauses 10 or 12, failure or delay in Buyer providing Payment Security, making any payment when due, or fulfilling any payment conditions.

8.3 If the Contract (or any portion thereof) is terminated, Buyer shall pay Seller for all Goods completed, lease fees incurred and Services performed before the effective date of termination, plus expenses reasonably incurred by Seller in connection with the termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set forth in the Contract (for work toward milestones not yet achieved and where there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at Seller's then-current standard time and material rates. In addition, Buyer shall pay Seller a cancellation charge equal to 80% of the Contract price applicable to uncompleted made-to-order Goods and 15% of the Contract price applicable to all other uncompleted Goods.

8.4 Either Buyer or Seller may terminate the Contract (or the portion affected) upon twenty (20) days advance notice if there is a Force Majeure Event (as described in clause 9) lasting longer than one hundred and twenty (120) days. In such case, Buyer shall pay to Seller amounts payable under clause 8.3, excluding the cancellation charge for uncompleted Goods unless acts or omissions of Buyer or its contractors or suppliers cause the delay.

8.5 Buyer shall pay all reasonable expenses incurred by Seller in connection with a suspension (including a suspension as a result of a Force Majeure Event as described under clause 9), including, but not limited to, expenses for repossession, fee collection, demobilisation/remobilisation, and costs of storage during suspension. The schedule for Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of any suspension.

9. FORCE MAJEURE

9.1 A Force Majeure Event means any circumstance not within a party's reasonable control including, without limitation:

- (a) acts of God, flood, drought, earthquake or other natural disaster,
- (b) epidemic or pandemic;
- (c) terrorist attack, civil war, civil commotion or riots, war, threat of or preparation for war, armed conflict;
- (d) imposition of sanctions, embargo, or breaking off of diplomatic relations;
- (e) any law or any action taken by a government or public authority, including without limitation imposing an export or import restriction, quota or prohibition, or failing to grant a necessary licence or consent;
- any direction, request, requirement or obligation (whether or not having the force of law) of any monetary agency, central or other bank, or financing institution;
- (g) nuclear, chemical or biological contamination or sonic boom;
- (h) collapse of buildings, fire, explosion or accident; and
- (I) Interruption or fallure of utility service

provided it has complied with this clause 9, if a party is prevented, hindered or delayed in or from performing any of its obligations under the Contract by a Force Majeure Event ("Affected Party"), the Affected Party shall not be in breach of the Contract or otherwise liable for any such failure or delay in the performance of such obligations. If acts or omissions of the Buyer or its contractors or suppliers cause the delay, Seller shall also be entitled to an equitable price adjustment. The corresponding obligations of the other party will be suspended, and its time for performance of such obligations extended, to the same extent as those of the Affected Party. The Affected Party shall (a) as soon as reasonably practicable after the start of the Force Majeure Event and to the extent it is legally able, notify the other party of the Force Majeure Event, the date on which it started, its likely or potential duration, and the effect of the Force Majeure Event on its ability to perform any of its obligations under the Contract and Seller shall also advise of the effect of the Force Majeure Event on the price of the Goods to be supplied and (b)

use reasonable endeavours to mitigate the effect of the Force Majeure Event on the performance of its obligations.

10. ETHICS

10.1 Buyer represents and warrants to Seller and Seller represents and warrants to Buyer, that both Parties and all persons or entities providing goods and/or services in connection with this Contract in any manner will comply with all applicable laws, statutes and regulations and any internal policies concerning anti-bribery and corruption, conflict of interest, money laundering, labour standards, and other laws that may be implicated in connection with this transaction. It is the intent of the Parties to prohibit participation in or facilitation of any form of public-sector or private-sector corruption, kickback, extortion, or any other illegal, unethical or improper means of obtaining or retaining a business advantage or inducing anyone to misuse his or her discretion.

10.2 If, during the term of the Contract, either Party knows or becomes aware of any facts or circumstances contrary to the representations and the warranties above, said Party will immediately notify the other Party and provide sufficient information for the affected Party to take appropriate protective or corrective actions, which may include voiding or rescinding the Contract. The notifying Party further agrees to cooperate fully in any investigation undertaken by the affected Party.

10.3 If requested, both Parties agree to show evidence of an ethics or code of conduct program or otherwise acknowledge in writing that their respective employees are aware of their obligations under this clause.

11. INTELLECTUAL PROPERTY AND CONFIDENTIALITY

- 11.1 Buyer acknowledges that the intellectual property in the Goods and/or Services is Seller's property and that nothing in the Contract shall be construed as conferring any licence or granting any rights in favour of Buyer in relation to such intellectual property.
- 11.2 Seller's documentation, prints, and drawings ("Documents") (including without limitation, the underlying technology) furnished by Seller to Buyer in connection with the Contract are the property of Seller and Seller retains all rights, including without limitation, exclusive rights of use, licensing and sale. Notwithstanding the foregoing, Buyer may use the Documents as is necessary in the installation, operation, maintenance, and repair of the Goods sold under this Contract but may not disclose them to any third party without the prior written consent of Seller.
- 11.3 Seller warrants that the Goods sold pursuant to the Contract, or their use as provided below, except as are made specifically for Buyer according to Buyer's specifications, do not infringe any valid patent in existence in the country where the Goods are installed as of the date of delivery. This warranty is given upon condition that Buyer (i) promptly notifies Seller in writing of any claim or suit involving Buyer in which such infringement is alleged, (ii) makes no admission of liability and does not take any position adverse to the Seller, (iii) gives Seller sole authority to control defence and settlement of the claim, and (iv) provides Seller with full disclosure and reasonable assistance as required to defend the claim. Seller's warranty as to use only applies to infringements arising solely out of the inherent operation (i) of such goods, or (ii) of any combination of goods sold hereunder in a manner designed by Seller.
- 11.4 Should any Goods; or any portion thereof, become the subject of a claim notified under clause 11.3, Seller may at its option (i) procure for Buyer the right to continue using the Goods, or applicable portion thereof, (ii) modify or replace it in whole or in part to make it non-infringing, or (iii) failing (i) or (ii), take back infringing Goods and refund the price received by Seller attributable to the infringing Goods.
- 11.5 This clause 11 states Seller's exclusive liability for intellectual property infringement by Goods.
- 11.6 Buyer agrees, at its expense, to indemnify Seller against any claim for infringement of any intellectual property rights arising out of Goods made or Services provided by Seller in compliance with Buyer's designs, specifications or instructions.
- 11.7 Buyer undertakes to Seller to keep confidential all information (written or oral) disclosed by Seller to Buyer or otherwise acquired during the course of the performance of the Contract except information that is subject to

an obligation to disclose under law, or that is required to be disclosed by any competent regulatory authority, by notice or otherwise, or already in its possession other than as a result of a breach of this clause or in the public domain other than as a result of a breach of this clause.

12. EXPORT COMPLIANCE

- 12.1 Buyer agrees to comply, at its own expense, with all applicable export control laws and regulations which control the Goods and/or Services it purchases from Seller, including, without limitation, the U.S. Export Administration Regulations, U.S. International Traffic in Arms Regulations, U.S. Nuclear Regulatory Commission Regulations, U.S. Office of Foreign Asset Control regulations, EU Regulation 428/2009, the export control regulations of the individual European countries, Swiss Goods Control Ordinance GKV 946.202.1, Korean Notice on Trade of Controlled Items and/or the Japanese Foreign Exchange and Foreign Trade Law regulations, all as amended or superseded from time to time and as applicable to this transaction. Buyer shall not import, export or re-export, or authorise the export or re-export any Goods procured under this Contract or any other goods, technology, or information that it obtains or learns from Seller under this Contract, or any copy or direct product thereof, in violation of any of such laws, restrictions, or regulations or without any government license or authorisation required thereunder. Any and all obligations of Seller to provide Goods, Services, technology or information hereunder shall be subject in all respects to such laws, restrictions, and regulations.
- 12.2 Without limiting the foregoing, any commodity, technology, or software provided by Seller is prohibited for export, re-export, or transfer to Cuba, Islamic Republic of Iran, Democratic People's Republic of North Korea, Republic of Sudan, Republic of South Sudan or Syrian Arab Republic, as well as to persons or entities listed on restricted parties lists published by the governments of the U.S., EU, UK, Switzerland, Japan or Korea as applicable to this transaction. Buyer shall immediately notify Seller if Buyer is, or becomes, listed in any restricted parties list or if Buyer's export privileges are otherwise denied, suspended or revoked in whole or in part by any government entity or agency. Additionally, any commodity, technology, or software provided by Seller is prohibited for export, re-export, or transfer to any person or entity which will use it for end-uses proscribed by any relevant export control regulations, including chemical and biological weapon, missile, nuclear, maritime nuclear propulsion, and terrorism related activities.
- 12.3 Buyer agrees to indemnify and hold harmless Seller from any and all fines, claims, damages, losses, costs and expenses (including reasonable attorney's fees) incurred by Seller as a result of any breach of this clause 12 by Buyer.
- 12.4 Performance of this Contract is contingent upon Seller obtaining any necessary government approvals, including, but not limited to, any required export licenses or required authorisations. Buyer acknowledges that failure to receive a required approval by the relevant government(s) to proceed with an export or transfer of technology excuses Seller from performing the Contract and delivering under the order.

13 MISCELLANEOUS

- 13.1 Seller is a member of the group of companies whose holding company is IMI plc and accordingly, Seller may perform any of its obligations to exercise any of its right hereunder by itself or through any other member of its group, provided that any act or omission of any such other member shall be deemed to be the act of omission of Seller.
- 13.2 The validity, interpretation and performance of this Contract and any dispute connected herewith shall be governed and construed in accordance with English law, excluding any conflicts of laws, principles and excluding the United Nations Convention on Contracts for the International Sale of Goods.
- 13.3 Any dispute or claim arising from or in connection with this Contract, including any question regarding its existence, validity or termination, shall first be settled through discussion between the Parties upon the written request of any Party. In the event that no settlement is reached within forty five (45) days after any such written request, the courts of England shall have exclusive jurisdiction to settle any dispute or claim arising out of or in connection with the Contract or its subject matter or formation.

- 13.4 This Contract constitutes the full understanding of the parties, a complete allocation of risks between them and a complete and exclusive statement of the terms and conditions of their agreement and supersedes any price or contemporaneous oral or written communications between the parties concerning the goods supplied hereunder.
- 13.5 No conditions, usage of trade, course of dealing or performance, understanding or agreement purporting to modify, vary, explain or supplement the terms or conditions of this Contract shall be binding unless hereafter made in writing and signed by the party to be bound, and no modification shall be affected by the acknowledgement or acceptance of purchase order or shipping instruction forms containing terms or conditions at variance with or in addition to those set forth herein.
- 13.6 No waiver by either Seller or Buyer with respect to any breach or default or of any right or remedy and no course of dealing, shall be deemed to constitute a continuing waiver of any other breach or default or of any other right or remedy, unless such waiver is expressed in a writing signed by the party to be bound.
- 13.7 Buyer shall not (by operation or law or otherwise) assign its rights or delegate its performance hereunder without the prior written consent of Seller, and any attempted assignment or delegation without such consent shall be void.
- 13.8 If any provision or part-provision of the Contract or these terms and conditions is or becomes invalid, illegal or unenforceable, it shall be deemed modified to the minimum extent necessary to make it valid, legal and enforceable. If such modification is not possible, the relevant provision or part-provision shall be deemed deleted. Any modification to or deletion of a provision or part-provision under this clause shall not affect the validity and enforceability of the rest of the Contract.



SmarTrak (ST-2)



Engineering GREAT Solutions

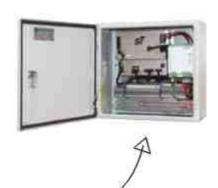
Electronic controller for hydraulic positioning systems





SmarTrak Controller

The SmarTrak controller model ST-2 is used as a positioning system for proportionally-driven hydraulic actuators with up to two independent channels. Fast stroke and superior resolution allow the unit to be used with severe service hydraulic actuators which demand fast stroking and precise positioning. The SmarTrak system covers a wide range of actuator sizes and stroke length requirements. SmarTrak is able to manage two fully independent actuators (moving two different valves).



Fast stroke and precise positioning

Key features

- > Compact design
- > Integrated position transmitter
- > Auto-tuning system for calibration
- > Auto-diagnosis system
- Dedicated software interface to set, customize, control and monitor high dynamic performance
- > Metallic case
- > High reliability

- Powerful digital signal processor loop time of 1m/sec
- High performances without expensive closed-loop proportional valves
- > PWM proportional solenoid valve driver with current feedback able to manage different types of valves (tested with Atos, Wandfluth, Bosch Rexroth)
- The IP66 protection and unique exhaust protection system makes it suitable to be installed in harsh environments where there is tropical rain, dust, sand, salt etc.

Benefits

- No need for an amplification device in most applications
- Superior control capacity of amplification device when installed
- > High flow with quick, precise and complete control capability
- > Powerful self calibration software with the ability to totally personalise the parameters
- > Wide set of configurable embedded features
- > Robust design with a full metal housing

Technical specification

Housing material

Painted carbon steel Full stainless steel 316

Proportional solenoid valve driver (2x) 6-24V - proportional valve, up to 2,6A

ON/OFF solenoid valve driver (6x) (8x option available) 24V - solenoids up to 1,5A

Position sensor (2x) Input for magnetostrictive or 4-20mA passive loop

Power supply

Electronic module

24V - minimum 1A (up to 20A based on the number of solenoid connected)

Assembly

For ac/dc input (85-264Vac: 90-350Vd): up to 480W

For 24Vdc input: up to 240VA

Digital output (ALARM) Configurable, dry contact

Control loop time

Certifications

CE

ATEX 2014/34/UE

Position feedback output (2x) 4-20mA passive loop isolated

Digital input (TRIP)

Up to 6 (8x option available) dry contact or 24Vac/dc. Logic function configurable

Enclosure protection IP 66

Weight 14 kg

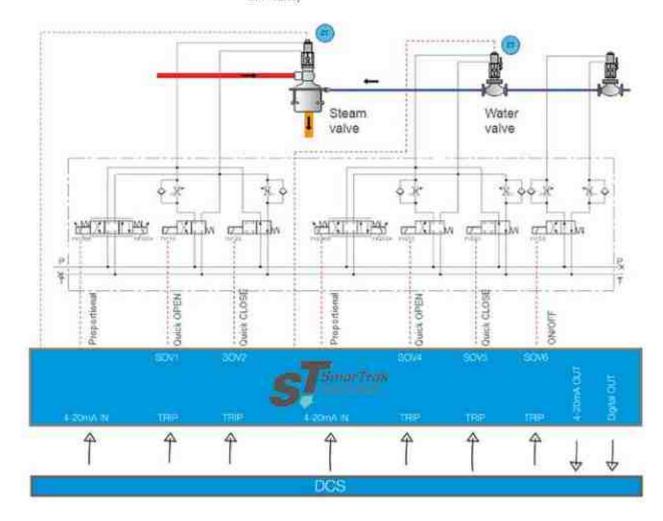


Typical applications

- > For each channel
 - 4-20mA input (position demand)
 - FBK Probe (magnetostrictive or 4-20mA)
 - One proportional valve + 3 on/off SOV
 - 3 pressure sensor input

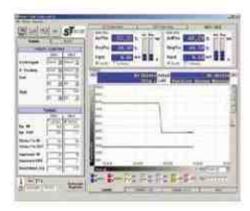
> Common

- 6 digital inputs (trip, quick open, quick close, direct drive ...)
- 3 digital output relay (diagnostic)
- 2 analog output
- Each SOV can be assigned to a TRIP for DirectDrive function (i.e. Water ON/ OFF valve)



Remote control software interface

- > HART protocol
- > USB port
- > Up to 500 events are stored in eeprom on the PCB board:
 - Parameters change and events like "Trip", "Low pressure", "Probe fail" are stored
 - All events are saved with date & time reference (and snapshot is saved on SD card)
- > Remote control software available for window system





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NATIONAL THERMAL POWER CORPORATION (NTPC)

Site: Kawas

Unit Serial: GT1A # 900540, GT1B # 900539, ST1C # E300406/1, GT2A # 900538, GT2B # 900541, ST2C # E300406/2

Quote Number: QEW23-0458

Revision: 0

Proposal Date: 31-Jan-2024

Proposal Type: Techno_Commercial Only



Technical Summary

We BHEL-GE GAS TURBINE SERVICES PVT LTD (also called BGGTS or "Seller") along with GE, GE Vernova hereafter referred as "GE", is pleased to submit this proposal to National Thermal Power Corporation. Kawas Plant, Gujarat India, hereafter referred to as "NTPC" or "Customer" or "Buyer", for MARK VIe Windows® 10 HMI, Historian and EMAP server Upgrade.

Number	OEM nameplate number	Technology	Equipment Name
E300406/1	E300406/1	Steam Turbine	KAWAS CC1 ST
900539	900539	Gas Turbine	KAWAS-GT-1B
900538	900538	Gas Turbine	KAWAS-GT-2A
900541	900541	Gas Turbine	KAWAS-GT-2B
900540	900540	Gas Turbine	KAWAS-GT-1A
E300406/2	E300406/2	Steam Turbine	KAWAS CC2 ST

The Seller's latest HMI technology provides the most current software and hardware technology available from GE for the turbine control operator interface. The latest software packages provide improved features and protection functions as compared to previous versions.

- Current HMIs & Historians being built today are Windows® 10 IOT Enterprise operating system and the HMIs have CIMPLICITY* 11 Advanced Viewer. All original HMIs on the same network must be upgraded at the same time to allow proper interface between the equipment and the software packages.
- The benefits of this retrofit include:
- a) Industry standard operating system and software.
- b) Integration of various systems and devices (as needed) to reduce resources required for operating and maintaining the units.
- c) The ability to find and eliminate problems before they become critical.
- d) CIMPLICITY Graphical User Interface (GUI) software on HMIs is for industrial controls.
- e) Solid State hard drives for increased uptime on some PC models

General Project Overview

This project will consist of replacing 14 HMI operator interface, 6 LVS server, 4 Historian Servers, 2 EMAP servers and 1 Documentation server at the Error! Reference source not found, with new HMIs, Historian and New EMAP servers located in the same locations with similar functionality. This proposal is for the site which is equipped with MARK VIe controller.

As part of the upgrades and enhancements, the Seller is offering the following:

a) Upgrade the existing HMIs to latest commercial Grade HMI Servers.

NTPC-Kawas Proposal No: QEW23- 0458 **BGGTS** Proprietary Information

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BHEL-GE Gas Turbine Services Pvt. Ltd.

- b) Upgrade the existing LVS Server to latest commercial Grade LVS Servers.
- Upgrade the existing Historian Servers to latest commercial Grade Historian Servers.
- Upgrade the existing Documentation server to latest commercial Grade Documentation Servers.
- e) Upgrade the existing EMAP servers to latest commercial Grade EMAP Servers.
- Upgrade the existing Network switches to latest validated Network switches.
- g) Upgrade the existing NTP server with master clock to latest validated NTP server with master clock.
- h) All the printers shall also be upgraded.
- i) LVS screens shall be reused.
- j) LAN Server shall be reused.
- k) One Pair of UTM device shall be added to interface with existing DM zone.

Quality

Controls Business Line is committed to Customer Satisfaction, Compliance and Continuous Improvement. Our Quality Policy, compliance to numerous standards and many reference sites demonstrate our adherence to these principles.

- Our Quality Management System (QMS) is scalable assuring lean quality from software patch or parts delivery to multisite mission critical control systems deployments.
- b. Our procedures drive clear requirements management through to the end solution. We also integrate global regulatory, technical and cyber security standards into our upfront proposal process so all stakeholders know how end user will be compliant.
- c. If new requirements emerge, we manage scope, schedule, cost and regulatory impacts to optimally deliver only the value customer contracts and regulations require.
- d. All our global design and manufacturing sites (USA, Hungary, UAE, Saudi, Korea, China) are ISO-9001:2015 certified by a leading Auditor such as LRQA or BSI. All operate under a single QA Manual.
- We survey using Net Promoter Score methodology driving lessons learned on Parts, Projects and Service deliveries.
- f. Our Continuous Improvement leverages root cause analysis and Lean Six Sigma disciplines to provide clear tie from improvement opportunities to countermeasure effectivity reviews.
- g. We welcome an examination of our procedures and objective evidence for compliance to contract and ISO-9001:2015 anytime during a project. Usually, this would last less than one day. Please work with your Project Manager once project is kicked off to arrange.

Some customers require additional assurances above and beyond contractual, ISO-9001:2015 and relevant technical regulatory standards. We can proceed with discussion on any of these options:

- a. Full System Audit. Occasionally end customers require documented assurance of compliance to contractual and quality standards. These audits require multiple days to complete and some planning for scope. We can include this scope in the contract.
- Expanded Project Quality Documentation. Some projects require specific quality requirements that are not part of ISO-9001:2015, we offer to contract these activities to document additional deliverables (examples: Project Quality Plans, Software Quality Plans, Packaging Plans, Inspection Quality Plans)
- c. Where end customers require compliance to standards we do not currently possess we will work with you to develop a custom solution to meet your needs.

Space

NTPC-Kawas BGGTS Proprietary Information

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BHEL-GE Gas Turbine Services Pvt. Ltd.

Project Management

Upon receipt of an order, the Seller will assign a Project Manager who will be the Buyer/End-user's single point of contact to ensure that the scope and delivery requirements are satisfied. The Project Manager's responsibilities will include:

- Project scheduling and tracking for the project activities associated with the equipment delivery.
- Procurement and expediting of all equipment and services included in this proposal to insure a smooth project.

Coordination of engineering, test and startup activities (if included) for the equipment upgrade.



1 HMI Base Workscope

1.1 HMIs Proposed Changes/Solution

This project will consist of replacing 23 HMI operator interface and 4 Historians and 2 EMAP servers, at the Errorl Reference source not found, with new HMIs, new Historian and new EMAP servers located in the same locations with similar functionality. This proposal is for the site which is equipped with MARK VIe controller. The upgrade also includes the upgrade of network switches and printers.

The final site-specific configuration will be completed during installation. It is recommended that the Seller's field service employees perform the installing and system/controller configuration to maintain system integrity and robustness.

New ControlST site software is included with the HMI as part of the base scope offering. Installation of the controller software based on the upgrade is included as part of the installation activities.

1.1.1 HMI System Architecture

 HMI will be supplied in the quantities and with the functionality described in words and in the configuration tables below.

No changes to the existing UDH/PDH networks link are provided. These HMI will be an Commercial Desktop mounted in a tower configuration.

Proposed HMI Capability Table for Block 1

Block # 1	HMI#1 CONTROL ROOM	HMI#2 CONTROL ROOM	HMI#3 CONTROL ROOM	HMI #4 CONTROL ROOM	HMI#5 CONTROL ROOM	HMI#6 CONTROL ROOM
GT#1A, 1B and ST1C	Server	Server	Server	Server	Server	Server
HMI FUNCTIONALITY	GT1A_SVR	GT1B_SVR	CRM1_SVR	CRM2_SVR	CRM3_SVR	CRM4_SVR
PC Style	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC
Commercial – uptime enhancement	Solid State hard drives					
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	Tower	Tower	Tower	Tower
Widescreen Formatting	Yes	Yes	Yes	Yes	Yes	Yes
IRIG-B/GPS time synch server*	No	No	No	No	No	No
Audible alarm with speakers	Yes	Yes	Yes	Yes	Yes	Yes

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Block # 1	HMI#1 CONTROL ROOM	HMI#2 CONTROL ROOM	HMI#3 CONTROL ROOM	HMI #4 CONTROL ROOM	HMI#5 CONTROL ROOM	HMI #6 CONTROL ROOM
Generator Capability Curves	NO	NO	NO	NO	NO	NO
Expanded Serial Ports	NO	NO	Yes	Yes	NO	NO.
Parallel port support for dot matrix printer	NO	NO	NO	NO	NO	NO
MODEM	NO	NO	NO	NO	NO	NO

Block#1	HMI#7 CONTROL ROOM	HMI#8 CONTROL ROOM	FIME#9 CONTROL ROOM	HMI#10 CONTROL ROOM	HMI#11 CONTROL ROOM	HMI#12 CONTROL ROOM
GT#1A, 1B and ST1C	Server	Server	Server	Server	Server	Server
HMI FUNCTIONALITY	EWS1_SVR	SI_SVR	LVS1_SVR	LVS2_SVR	LVS3_SVR	HST1
PC Style	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial Server
Commercial – uptime enhancement	Solid State hard drives					
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	Tower	Tower	Tower	Tower
Widescreen Formatting	Yes	Yes	Yes	Yes	Yes	Yes
IRIG-B/GPS time synch server*	No	No	No	No	No	No
Audible alarm with speakers	Yes	Yes	Yes	Yes	Yes	Yes
Generator Capability Curves	NO	NO	NO	NO	NO	NO
Expanded Serial Ports	NO	NO	Yes	Yes	NO	NO
Parallel port support for dot matrix printer	NO	NO	NO	NO	NO	NO
MODEM	NO	NO	NO	NO	NO	NO

Block # 1	HMI#13 CONTROL ROOM	HMI #14 CONTROL ROOM	HMI#15 CONTROL ROOM
GT#1A, 1B and ST1C	Server	Server	Server
HMI FUNCTIONALITY	HST2	DOC_STN1	EMAP1_SVR

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Block # 1	HMI #13 CONTROL ROOM	HMI#14 CONTROL ROOM	HMI#15 CONTROL ROOM	
PC Style	Commercial PC	Commercial PC	Commercial Server	
Commercial – uptime enhancement	Solid State hard drives	Solid State hard drives	Solid State hard drives	
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	Tower	
Widescreen Formatting	Yes	Yes	Yes	
IRIG-B/GPS time synch server*	No	No	No	
Audible alarm with speakers	Yes	Yes	Yes	
Generator Capability Curves	NO	NO	NO	
Expanded Serial Ports	NO	NO	Yes	
Parallel port support for dot matrix printer	NO	NO	NO	
MODEM	NO	NO	NO	

Proposed HMI Capability Table for Block 2

Block # 1	HMI #1 CONTROL ROOM	HMI#2 CONTROL ROOM	HMI#3 CONTROL ROOM	HMI #4 CONTROL ROOM	HMI#5 CONTROL ROOM	HIMI #6 CONTROL ROOM
GT#2A, 2B and ST2C	Server	Server	Server	Server	Server	Server
HMI FUNCTIONALITY	GT2A_SVR	GT2B_SVR	CRM5_SVR	CRM6_SVR	CRM7_SVR	CRM8_SVR
PC Style	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC
Commercial – uptime enhancement	Solid State hard drives					
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	Tower	Tower	Tower	Tower
Widescreen Formatting	Yes	Yes	Yes	Yes	Yes	Yes
IRIG-B/GPS time synch server*	No	No	No	No	No	No
Audible alarm with speakers	Yes	Yes	Yes	Yes	Yes	Yes

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Block # 1	HMI#1 CONTROL ROOM	HMI #2 CONTROL ROOM	HMI#3 CONTROL ROOM	HMI #4 CONTROL ROOM	HMI#5 CONTROL ROOM	HMI #6 CONTROL ROOM
Generator Capability Curves	NO	NO	NO	NO	NO	NO
Expanded Serial Ports	NO	NO	Yes	Yes	NO	NO.
Parallel port support for dot matrix printer	NO	NO	NO	NO	NO	NO
MODEM	NO	NO	NO	NO	NO	NO

Block#1	HMI#7 CONTROL ROOM	HMI#8 CONTROL ROOM	FIME#9 CONTROL ROOM	HMI#10 CONTROL ROOM	HMI#11 CONTROL ROOM	HMI#12 CONTROL ROOM
GT#2A, 2B and ST2C	Server	Server	Server	Server	Server	Server
HMI FUNCTIONALITY	EWS2_SVR	S2_SVR	LVS4_SVR	LVS5_SVR	LVS6_SVR	HST2
PC Style	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial PC	Commercial Server
Commercial – uptime enhancement	Solid State hard drives					
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	Tower	Tower	Tower	Tower
Widescreen Formatting	Yes	Yes	Yes	Yes	Yes	Yes
IRIG-B/GPS time synch server*	No	No	No	No	No	No
Audible alarm with speakers	Yes	Yes	Yes	Yes	Yes	Yes
Generator Capability Curves	NO	NO	NO	NO	NO	NO.
Expanded Serial Ports	NO	NO	Yes	Yes	NO	NO
Parallel port support for dot matrix printer	NO	NO	NO	NO	NO	NO
MODEM	NO	NO	NO	NO	NO	NO

Block # 1	HMI#13 CONTROL ROOM	HMI #14 CONTROL ROOM
GT#2A, 2B and ST2C	Server	Server
HMI FUNCTIONALITY	HST4	EMAP2_SVR

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Block#1	HMI#13 CONTROL ROOM	HMU#14 CONTROL ROOM	
PC Style	Commercial PC	Commercial Server	
Commercial – uptime enhancement	Solid State hard drives	Solid State hard drives	
PC orientation (Industrial and rack mount server PC's)	Tower	Tower	
Widescreen Formatting	Yes	Yes	
IRIG-B/GPS time synch server*	No	No	
Audible alarm with speakers	Yes	Yes	
Generator Capability Curves	NO	NO	
Expanded Serial Ports	NO	Yes	
Parallel port support for dot matrix printer	NO	NO	
MODEM	NO	NO	

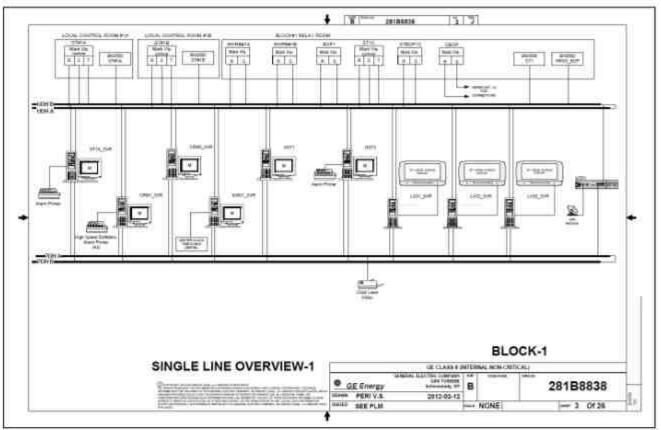
1.1.2 Proposed HMI External Communication

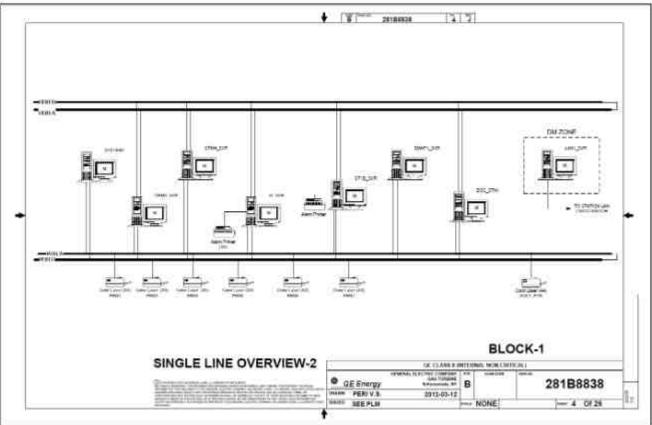
Seller will not modify the Buyer supplied external (Non-GE) equipment/foreign devices or other subsystems for communication interface with the Mark VI. Buyer/End-User is responsible for any additional hardware or programming required for the interfacing of Seller supplied equipment to Buyer/End-User supplied external equipment/foreign devices. The Seller expects the Buyer or his vendor will be needed to help with the communication on his Equipment. The Seller will work on GE equipment to help support commissioning the communication link(s).

1.1.3 Copy of current site Network Topology

Please include a copy of the current as-running site network topology for engineering review. Any changes to available network topology will be informed by customer during engineering phase.



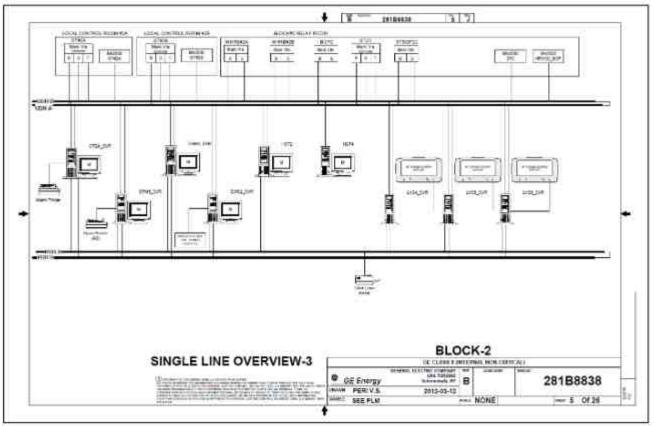


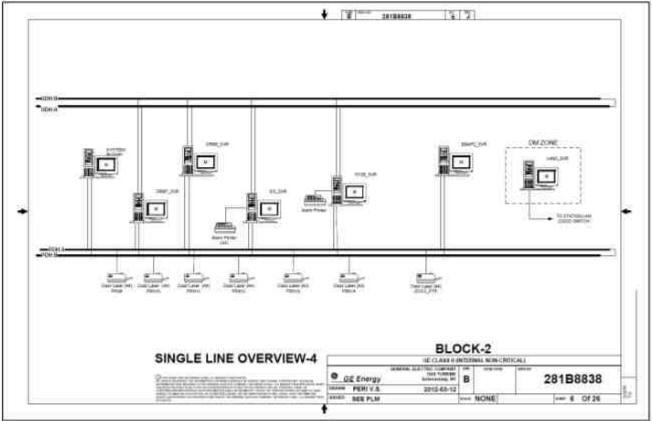


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1.1.4 Bill of Material for Block -1

The base scope of material and work detailed in the proposal will be as follows:

(a) OWS, CRM, DOC and EWS Servers

Oty.	Description					
9	Commercial grade HMI Server for HMI Upgrade: (or Current GE Standard) PC details are typical. Seller will provide a HMI that meets the specific requirements of the project, details of which will be provided during project execution: Windows 10 loT					
9	24-inch LED flat screen monitor for operator station above					
.9	Power Cords Supplied per Powered Device for use in the India					
1	Network Topology Drawing updated					
14	Multi VLAN Network Switch					
6	Color Laser Printer A4					
2	Color Laser Printer A3					
4	High Speed Dot-Matrix Alarm Printer(A3)					
1	NTP Server with GPS					

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(b) LVS Server

Qty.	Description
3	Commercial grade HMI Server for HMI Upgrade: (or Current GE Standard) PC details are typical. Seller will provide a HMI that meets the specific requirements of the project, details of which will be provided during project execution: Overland
0	English Language Existing 67 Inch LVS to be reused
854	Ending of mon evo to be readed
3	Power Cords Supplied per Powered Device for use in the India

(c) Historian Server:

Qty	Description
2	Commercial grade Historian Server: (or Current GE Standard) which includes the following items as standard: Output ProLiant ML110 (RAID-1) or Equivalent Output Based Server Class PC (desktop mounted) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (min), 3 GHz (min) Output New Processor, 4 cores (m

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Qty	Description
	 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (DATA D:\) Historian Data Backup 9.5 mm DVD-Read/Write 2 x Dual Port Gigabit NIC (total of 4 ethernet ports) Keyboard & Optical Mouse Microsoft Server 2019 Standard or Newer Microsoft Office - Word and Excel only OSI/AVEVA - PI Vision: 25000 pts Historian Tags Incudes 1Yr SRP (OSI/AVEVA Support & Maintenance) Acronis Backup Advanced for Windows Server (Latest validated version) McAfee Endpoint Threat Protection (Servers) (Latest validated version) Adobe Acrobat Reader
2 No	24 Inch LED Monitor
2 No	WORKSTATION ST software and Dongle
2 No	Engineering and software update for Historian

(d) EMAP Server:

177	
Qty	Description
1	Commercial grade EMAP Server: (or Current GE Standard) which includes the following items as standard: HPE ProLiant ML110 (RAID-1) or Equivalent Tower Based Server Class PC (desktop mounted) Intel Xeon processor, 4 cores (min), 3 GHz (min) 32GB DDR memory (Total Memory) 2GB (or greater) Graphics Card (w/4mDP outputs) 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (OS - C.¹) Operating System 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (BACKUP - X.¹ & DATA E.¹) System Data Backup 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (DATA D.¹) Historian Data Backup 5.5 mm DVD-Read/Write 2 x Dual Port Gigabit NIC (total of 4 ethernet ports) Keyboard & Optical Mouse Microsoft Server 2019 Standard or Newer Microsoft Office – Word and Excel only OSI/AVEVA – PI Vision: 3000 pts Historian Tags Incudes 1Yr SRP (OSI/AVEVA Support & Maintenance) Acronis Backup Advanced for Windows Server (Latest validated version) McAfee Endpoint Threat Protection (Servers) (Latest validated version) Adobe Acrobat Reader
1 No	24 Inch LED Monitor
1 No	Windows® 10 with CIMPLICITY ADVANCED VIEWER 11 and Workstation ST 7.0 or higher

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Oty	Description
1 No	Performance Engg for Block -1

1.1.5 Bill of Material for Block -2

The base scope of material and work detailed in the proposal will be as follows:



(a) OWS, CRM, DOC and EWS Servers

Oty.	Description
8	Commercial grade HMI Server for HMI Upgrade: (or Current GE Standard) PC details are typical. Seller will provide a HMI that meets the specific requirements of the project, details of which will be provided during project execution: Windows 10 IoT
8	English Language 24-inch LED flat screen monitor for operator station above
8	Power Cords Supplied per Powered Device for use in the India
1	Network Topology Drawing updated
14	Multi VLAN Network Switch
6	Color Laser Printer A4
8 1 14	Color Laser Printer A3
4	High Speed Dot-Matrix Alarm Printer(A3)
1	NTP Server with GPS

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(b) LVS Server

aty.	Description
3	Commercial grade HMI Server for HMI Upgrade: (or Current GE Standard) PC details are typical. Seller will provide a HMI that meets the specific requirements of the project, details of which will be provided during project execution: Windows 10 IoT
0	English Language Existing 67 Inch LVS to be reused
3	Power Cords Supplied per Powered Device for use in the India

(c) Historian Server:

Oty
2

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Qty	Description
	 9.5 mm DVD-Read/Write 2 x Dual Port Gigabit NIC (total of 4 ethernet ports) Keyboard & Optical Mouse Microsoft Server 2019 Standard or Newer Microsoft Office – Word and Excel only OSI/AVEVA – PI Vision: 25000 pts Historian Tags Incudes 1Yr SRP (OSI/AVEVA Support & Maintenance) Acronis Backup Advanced for Windows Server (Latest validated version) McAfee Endpoint Threat Protection (Servers) (Latest validated version) Adobe Acrobat Reader
2 No	24 Inch LED Monitor
2 No	WORKSTATION ST software and Dongle
2 No	Engineering and software update for Historian

(d) EMAP Server:

(4)	EIVIAF JEIVEI.
Qty	Description
1	Commercial grade EMAP Server: (or Current GE Standard) which includes the following items as standard: HPE ProLiant ML110 (RAID-1) or Equivalent Tower Based Server Class PC (desktop mounted) Intel Xeon processor, 4 cores (min), 3 GHz (min) 32GB DDR memory (Total Memory) 2GB (or greater) Graphics Card (w/4mDP outputs) 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (OS - C.\) Operating System 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (BACKUP - X.\ & DATA E.\) System Data Backup 1 x 512GB SATA RI SFF DS 2.5 inch Solid State Drive - (DATA D.\) Historian Data Backup 5 mm DVD-Read/Write 2 x Dual Port Gigabit NIC (total of 4 ethernet ports) Keyboard & Optical Mouse Microsoft Server 2019 Standard or Newer Microsoft Office - Word and Excel only OSI/AVEVA - PI Vision: 3000 pts Historian Tags Incudes 1Yr SRP (OSI/AVEVA Support & Maintenance) Acronis Backup Advanced for Windows Server (Latest validated version) Adobe Acrobat Reader
1 No	24 Inch LED Monitor
1 No	Windows® 10 with CIMPLICITY ADVANCED VIEWER 11 and Workstation ST 7.0 or higher
1 No	Performance Engg for Block -2

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1.1.6 Software

Please note that the ControlST versions must be consistent throughout the UDH. The assumption is made all HMIs, Historian and Mark VIe panels on the network will be available to be upgraded during the field services trip. Turbine shutdown will be required to upgrade ControlST Software/Firmware.

1.2 Testing

FAT - Factory Acceptance Test (FAT)/SWAT is not included in the scope.

Notes for above sections:

- Existing fiber optic cables, patch panels, patch cords, SFPs, convertors will be utilized with HMIs
- Mark-VIe control logic will not be modified with the HMI upgrade. GE has not included any scope related to changes/modification/upgradation of existing control logic in these units.
- HMIs will be hardened prior to shipment to site.

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HMI FEATURES

Network Topology Review

For HMI & Historian upgrades, we suggest the Buyer review the new network topology (4108) being generated by the Seller prior to the completion of the Seller's engineering process. This review will be scheduled by the Project Manager and generally takes place 4 weeks after we have received completed HMI & Historian site data. Also, during the same meeting, the Seller will ask questions concerning the HMI screens to determine if there is a need for an HMI screen review meeting.

HMI Screens

The Seller will upgrade and translate the existing screens to the new HMIs with minimal changes to the graphics. The Seller will verify any updates required to allow these screens to work properly with the existing controller code.

If a screen review meeting is needed, it can be made based on inputs from the network topology review meeting or at the customer's request. The review of the proposed HMI screens will be no later than a week after a pdf copy of the screens have been submitted to the customer for review to meet the ship dates agreed to in the contract. Corrections and minor changes can be accommodated. Significant changes or additional screens would require a cost and cycle quote.

1-day Screen review meeting through teleconference is included in proposal.

The Seller requires that screen changes be frozen after any scheduled screen review. Any screen changes not reported, or files not submitted at the time of the screen review will not be included on the upgraded HMIs. The Seller is not responsible for the resulting data gaps.

Engineering Design, Testing and Meetings

As part of the project, the Sellers Engineering Design will include the following:

- a) Create or update the network topology drawing (aka the 4108 drawing).
- b) Kickoff Meeting: A Buyer/Seller kickoff meeting will be held per conference call. Attendees from the Seller's team will include, at a minimum, the project manager and a project engineer. During the phone conference kickoff meeting, the project scope and schedule will be reviewed and agreed upon between the parties.
- c) Documentation (detailed below)

Documentation

Unless otherwise indicated, all electronic (softcopy) & hardcopy documentation, control screens, panel labels and wiring identification will be provided in the English language only, unless otherwise indicated. The Seller will provide the following product documentation in quantities and media type listed below.

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The Seller will provide an equipment network topology (4108) diagram in support of HMI and Historian upgrade. The topology provided is based on the current site information provided to the Seller by the Buyer/End-User at the time of purchase order. One "as-installed" revision of this drawing is included with this offer (price). Additional revisions would be quoted separately. This drawing is provided as a reference drawing only and the Seller is not liable for incorrect or missing information.

Electronic Media Documentation

One (1) softcopy of the project documentation will be provided on electronic/digital media. The file types will be Adobe Acrobat PDF, or the native file type received by the Seller's third-party vendor supplying its documents.

Hardcopy Media Documentation

Note that HMI and Historian only projects will not include hardcopy documentation.

Documentation List

The following table shows the description of the project documentation that the Seller will be providing as part of the deliverables for the contract:

ftem	Generic List
1.	ToolboxST Guide for the WorkstationST Application
2.	Instruction Manuals/Publications, including Maintenance & User Guides; Ex: GEH, GEK
3.	HMI Backup and Recovery Procedure
tem	Application Specific List
1.	Network Topology Diagram ("4108 drawing") (TC/HMI/NM)

Proposal Basis

This section lists those items which are provided by the Buyer or End-User and not part of the Seller's scope of supply. It also lists the Seller's assumptions, comments to Buyer's requirements, and the breakdown of Buyer/End-User responsibilities.

General Assumptions and Clarifications

Below represents the Seller's Clarifications, Assumptions and Exceptions related to the Seller supplied equipment and services.

- a) Historian is considered with 25000 license points.
- The Mark VIe software logics would not be modified during HMI upgrade.
- For LVS existing Large Video screens to be reused.
- d) LAN1_SVR and LAN2_SVR servers are not part of the upgrade scope.
- e) BN System1 Servers for both blocks 1 and 2 are not part of upgrade scope.
- f) Its is assumed that the New Switches and HMI shall be placed at existing locations and existing Power supply connections to be reused.
- g) For DOC1_SVR AutoCAD software is not considered as part of upgrade scope.
- EMAP Software commissioning and tuning at site shall be supported by GE Gas Power Performance engg team.

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- For EMAP; Optimizer, Compressor Wash Advisor Modules have been deprecated since 2021 due to Tools/Techstack obsolescence. These two modules will not be offered as part of this HMI upgrade project.
- Proposed EMAP solution is based on Cimplicity UI and will not be offered under legacy WebGUI.
- k) Seller believes that this proposal/quote meets the intent of the Buyer's request and will be the document of reference in any resulting contract.
- Unless otherwise specifically identified herein, this proposal assumes that none of the Seller's equipment (and related engineering) being supplied under this contract (or related contract) will be installed in, or have its wiring routed through, a classified hazardous area (Ex: Nuclear, Safety Related, ATEX, Class I, Div2 or Class 1 Div1 area).
- m) Unless specifically identified in this proposal, the Seller is not supplying any cables (copper, Ethernet, or fiber optic), networking equipment, field devices, instrumentation, cabinets, housings, solenoids, actuation devices, or installation materials.
- n) It is assumed that any existing equipment, including but not limited to cabling, wiring, sensors, field devices, terminal boards, communication networks, etc., that are not being replaced as part of this Workscope are in a good working order and calibrated to OEM specifications. Replacement of non-functioning, calibration, or faulty equipment is not included in the scope of this document, unless otherwise specified. If a site survey by Seller's engineering results in the need for additional equipment, cabling and field devices, this will result in a contract change order where pricing and delivery cycle relief will be afforded to the Seller
- All machine components are in satisfactory condition and will operate with the new controls.
 This includes, but is not limited to, the existing metering, generator protection/control, lubrication, cooling, gas, fuel, steam and hydraulics systems.
- p) If a Request for Quote (RFQ) or technical specification is presented by the Buyer/End-User during the project's execution (contract term), that were not initially brought to the attention of the Seller during the proposal development stage and said specifications/requirements subsequently increase the cost of the project for the Seller, this will be treated as a Contract Change Order and billed accordingly.
- q) Seller reserves the right to substitute suitable and equivalent third-party hardware in place of those proposed, should such items become obsolete prior to final delivery of those products. If during the warranty period, a third-party hardware item becomes defective and requires replacement, such item may be replaced by a substitute item if the third-party item has been obsoleted. Buyer shall receive notification of substitution prior to shipment of the items.
- r) When existing cabinetry is being reused, the Buyer/End-User shall be responsible for the condition and suitability of same to house the Seller supplied equipment, maintaining NEMA, EMI and RFI requirements, as an example.
- s) No provisions for a separate, integrated FAT or communication testing with a foreign device or other sub-systems (DCS, SCADA, etc.) are included in this proposal. Simple communication testing with Buyer/End-User's foreign devices or other sub-systems can be conducted and verified by the Sellers field engineer carrying out the commissioning onsite. Should Buyer decide to have a separate communication test with other systems at Buyer's facility, Seller will provide a quotation upon Buyer's request and detailed definition
- t) No modifications to any Buyer DCS or third-party equipment are included in this proposal. The new Seller supplied equipment may require modification to DCS for signals to maintain compatibility. Modification of the DCS and its signals is the responsibility of Buyer.
- Relevant OEM Technical Information Letters ("TIL") related to equipment being provided, have been performed by Buyer/End-User prior to installation of Seller supplied equipment.
- Buyer is responsible to adhere to the timetable of critical project data exchange and execution milestones as identified in the detailed project schedule agreed to at the kick-off meeting.

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- w) As the project, must incorporate Buyer specific requirements, Buyer must support all project
 - Support kick-off meeting, site visits, design reviews, status meetings, etc. £
 - ii. Participate in Buyer Witnessed Factory Test (if included) and Site Acceptance Tests.
 - Respond to Seller inquiries and requests for documentation in a timely manner. III.
 - Direct all communications through Seller's assigned Project Manager. ĪV.
 - Document, in writing, approvals for all change orders. V
- x) Non-GE/BH Engineering Design Package: As part of our base offer the Seller will provide unit specific equipment design drawings for the equipment we are providing, which will show termination points/locations. A plant specific Engineering Design Package ("EDP") is typically required, which takes the Seller's equipment specific drawings and the existing plant drawings and integrates them into a seamless EDP for the Site Services and Craft Labor teams. If the EDP is not provided by the Seller (as Base or Optional), and a Non-GE/BH third-party provides this EDP, the Seller assumes that the third-parties EDP is accurate and without errors. Should errors in this third-party EDP result in re-work or delays, on the part of the Seller, these delays/additional work will be treated as contract change order.
- v) Any GE/BH HMI and Historian equipment provided with the Windows 7 or SERVER 2008R2 operating system will be supported by Seller for any needed warranty support during the warranty coverage period. If Microsoft® software utilized on the HMI and Historian reaches the end of support from Microsoft during the Seller's warranty period, Seller will continue to support HMI and Historian functionality for these systems for warranty concerns excluding updates that may no longer be available from Microsoft. This quote does not include an upgrade from the current proposed operating system to any newer operating system in the future.
 - - Microsoft currently states that Windows® 7 operating system has an "Extended į, Support End Date of January 14, 2020
 - Microsoft currently states that Microsoft® SERVER 2008 R2 operating system has an "Extended Support End Date" of January 14, 2020.
 - HMI& Historian upgrades to new hardware with the latest Microsoft operating system III. available from Seller would have to be quoted separately in the future, if not included in this proposal.
 - Windows NT, 2000 and XP are at End of Life and no Microsoft support is available.
 - If End-User upgrades the devices covered by CAP during the CAP Term of the agreement. i.e. upgrade HMIs and Historians from Windows-7 to Windows-10, Seller will upgrade the Win-7 CAP subscription to Win-10 for the remainder of the original agreement Term.
- Services pricing included assumes all units/machines associated with this HMI upgrade will be offline
- aa) Formal training on the new equipment is not included.
- bb) The HMI and Historian hardware and software packages are tested as an integrated system. Extensive qualification and verification is performed to ensure compatibility of the hardware and software components. For warranty and support reasons removal of any of the Seller's provided software or addition of any third-party software/hardware packages (not previously approved by the Seller) will result in Seller's inability service and maintain the equipment and will void Seller's warranty on these products.
- cc) Seller & GE does not support connecting different Cimplicity versions of HMIs to the same network. The older versions of HMI can be identified by the version of CIMPLICITY present on the HMI. It will be either "3.22", "4.01", "5.5", "6.1", "7.5" or "8.2". There are major configuration differences between HMI versions, creating a high potential for corruption of the HMI core-load by manipulating multiple versions at the same time. There is also a potential for unforeseen conflicts, which Seller has not fully documented or discovered. Any issues

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- created by intermixing different CIMPLICITY version HMIs, will be treated as out of warranty expenses. Support can be made available at site to restore HMIs using customer/site generated backup media and this assistance will be billed on a time and material basis.
- dd) New HMIs and Historians are supplied with sufficient NIC (Network Interface Card) ports to support dual PDH/UDH networks. This does not imply that the new or existing site network has a redundant PDH/UDH network.
- ee) The current screens and alarms will be copied to the new HMIs. This proposal does not include a change in language or additional screens being added. Significant customization of screens may require additional engineering time and hence a change in pricing.
- ff) It is assumed that the current HMIs and Historian are not interfaced to or providing data to any existing DCS.
- gg) Seller can offer a Spare HMI computer consistent preloaded with a base configuration as well as all peripheral equipment (excluding monitor), the configuration as per HMIs in the base scope. This PC does not include GE ControlST, CIMPLICITY or specific site software configuration. This Spare HMI computer is intended to be used as a replacement for a failed HMI computer. To replace a failed HMI computer with this Spare unit, a site created backup image from the failed HMI computer must be available to load onto the spare computer. The ControlST and CIMPLICITY licenses from the failed HMI will be transferred on to this Spare PC making it a fully functional HMI to replace the failed HMI.

We highly recommend one or more optional Spare HMI computer(s) to extent the useful life of the site-specific HMI configuration to delay obsolescence issues. Quote for this spare HMI can be provided on request.

The Spare HMI cannot be connected to the site PDH/UDH network and used as an operator interface until it has been loaded with the ControlST, CIMPLICITY and site software for the HMI that it is replacing.

The Spare HMI does not support being used as an Additional HMI for a site since it does not have the applicable software licenses to operate as a GE HMI.

- hh) Existing GE Network wiring (power, networking, etc.) will be reused unless otherwise indicated. Additional Ethernet cabling or changes to the current design will/may constitute a contract change order and will need to be quoted at the time of the work. All cabling, connections, or installation associated with relocating or networking the HMIs and Historian PCs, such as hubs or converters, are out of the scope of this proposal.
- ii) If there is an existing OSM (Onsite monitor) computer at site, and it is interfaced with the HMI being upgraded as part of this proposal, the Seller will need to be made aware of this condition. If so, the Seller must then include modification to the HMI to allow for it to interface with OSM computer. The Seller has not included scope/price to interface the HMI with any OSM computer.
- jj) If the existing equipment onsite incorporates GE's DLN Remote Tuning option, then the Seller's project manager (for the HMI and Historian project) and the DLN contract manager will need to be made aware of this condition. It is the requirement of the Buyer/End-User to make the Seller aware of this condition at the time the Purchase Order is placed. Support for the DLN tuning application and possible changes to this service may be required.
- kk) Network switches not in scope of supply.
- II) In an application where a GE FANUC PLC, whether originally installed by GE or BH or installed by others, communicates with the GE/BH HMI equipment, any upgrades that may be required to these PLC's to allow them to continue to communicate with the new HMIs and Historian being installed are not included in this quote. Please contact your local GE FANUC PLC representative to discuss if updates will be required to allow communication with the new HMIs and Historian.

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mm) Printers

 Existing dot matrix printers may be reused for alarm printing, if compatible with Windows 10 OS (see Windows 7/10 64-bit assumption below).

ii. Notwithstanding anything else, Seller shall not have any liability for delays resulting directly from governmental actions, supply chain shortages, or any other consequences attributable to the widespread impact of the pandemic known as Covid-19 or other similar strains or Coronavirus pandemics.

Application/Product Specific Buyer/End-User Responsibilities

The following represents the Buyer/End-User responsibilities which are specific to the product being supplied by the Seller;

- a) Site information/data related to the current HMI and Historian installation. This data will be required prior to order acknowledgement and prior to the Seller building/designing the new system. This data will also be used to create/update the Network Topology (4108) drawing associated with this site/installation. The Site data shall include:
 - Existing as-running network topology drawings: The Seller assumes that a 4108 Network Topology drawing is available today. The Sellers has not included the cost to create a new 4108 Drawing, only to update an existing drawing.
 - Other Network Information: Include any devices, communications and other items that are not shown on the current network topology drawings.
 - iii. As Running software (must run software gathering tool). It is important that current data be collected from the equipment to avoid issues with the new equipment not arriving with current control constants, unit software updates or screen updates.
 - Current and as desired HMI and Historian information, via HMI/Network Questionnaire form.
 - v. If the Buyer cannot provide the Seller with the above site data, the Seller will be obligated to retrieve the data. All time and related expenses associated with collecting the site information/data will be billed to the Buyer/End-User at actuals, per the Sellers Standard Services Rate Schedule in affect at the time of the work. A site survey has been included in offer to get relevant data and information from site.
- b) Considerations for the purchase of Panel Mount HMI models: PC models have changed their mounting patterns and sizes over the years and existing door cut-outs will often have to be modified for the new mounting requirements. The Buyer/End-User will be required to rework/modify the existing panels to accommodate the new Panel Mount HMI prior to the arrival of the Seller's field engineer.
- c) Considerations for the purchase of new or additional network switches: The Buyer/End-User will be required to install and verify new Ethernet cabling prior to the arrival of the Seller's field engineer.
- d) Services pricing included assumes all units/machines associated with this HMI and Historian upgrade will be offline concurrently.
- e) Network Analysis & Troubleshooting software (Non-GE/BH supplied software): Network analysis software is permitted to be installed (by the Buyer/End-User) on a supplied computer from the Seller for network analysis and troubleshooting physical network nodes connected to the GE Plant Data Highway (PDH), GE Unit Data Highway (UDH) and third-party interface protocol communications, e.g., Modbus, IEC-60870, OPC, DNP3, IEC-61850. This permission assumes that this software does not directly interface or disrupt the process of the GE turbine/generator control software and associated communication and that it will not interfere with the operation of the Seller's supplied computer in any way. This practice will not

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void the Seller's software warranty, provided as part of the software license/Addendum, provided that the malfunction was not caused by the installation of the Network analysis software by the Buyer/End-User.

 Supply of controllers and other component as needed during the HMI upgrade due malfunctioning, not working to be supplied by the purchaser

Documentation Related Buyer/End-User Responsibilities

a) Except where stated herein, all documentation and computer screens will be in English

b) It is assumed that Seller will be furnished, upon request, with full drawings and information concerning the state of the existing installation including communication connection information to the existing network devices. If such information is not available Seller will charge for the work involved in obtaining this information

c) Overall project cycle time is dependent upon receipt of current "Site data". It is Buyer's responsibility to provide the relevant Site Data in a timely manner. Seller's Project Manager will be assigned after receipt of order and will provide instructions for the download and transfer of site data as necessary. If the Buyer cannot provide the Seller with the requested site data, the Seller will be obligated to retrieve the data. All time and related expenses associated with collecting the site information/data will be billed to the Buyer/End-User at actuals, per the Sellers Standard Services Rate Schedule in affect at the time of the work. Site Data includes, but is not limited to, 1) as running software (must run software gathering tool) and 2) network topology drawings.

d) If this Site Data is not provided or can be retrieved by Seller within two weeks upon placement of order, the possibility exists that the hardware/software may be engineered using default, generic data and a delay in delivery and/or an extended startup time may result.

 e) This proposal does not include Plant Operation manual updates, or any other site documentation modifications that are not mentioned as being supplied.

NOTE: Delays in receiving 1) current/as running drawings/software and/or 2) incomplete or poorquality drawings, which contain errors could result in a contract change order (with schedule and price relief) to overcome drawing/documentation issues which may hinder Seller from completing its engineering within the agreed upon schedule.

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Commercial Summary

Item	Description	Basic unit Price (in INR)
1	HMI Upgrade Scope as detailed in section 1.0	INR 32,00,00,000.00
2	Installation & Commissioning of Mark Vie	Shall be done on perdiem basis against PO 4000313229-056-1035

Special Notes

Schedule

Equipment (Hardware and Software) Schedule

The After Receipt of Order ("ARO") date will be the date that the Seller acknowledges the Purchase Order, not the initial date that the Seller receives that PO.

The estimated timescale from acknowledgement of PO/contract to the Delivery (Incoterms) of the equipment is <u>12 Months</u> and is based on current factory loading and lead times offered by the Seller and other vendors, if any.

Equipment Schedule Limitations

Delivery dates can vary depending on factory workload and should be confirmed before issue of order. Delays in receiving vital information from the Buyer/End-User or delays in receiving "review" drawings back from the Buyer/End-User will impact the ARO delivery dates. These delays may result in a day for day slip in the delivery schedule or a complete shift the delivery dates indicated herein.

When detailed drawings representing the Buyer/End-user's current (as-running), installed equipment cannot be made available to the Seller, it is critical that the Seller has sufficient time and physical access to the Buyer/End-user's equipment while in a Lock-out/Tag-out condition. This will allow the Seller to take measurements, design, manufacture, and **Field Fit** these portions of the total scope of supply. Some examples of this may include fuel valve/actuator/solenoid mounting plates, blanking plates, speed probe brackets, etc.

Seller's proposed schedule with milestone dates will be presented at the Project Kick-Off Meeting. This project schedule will illustrate the various activities from purchase order/contract receipt, through design, manufacture, testing, shipment and site services (if in work scope).

The overall price and cycle quoted herein requires full cooperation between the Seller and the Buyer/End-User, and adherence to key milestones dates specified as part of a project implementation plan. The specific milestone dates will normally be set during the Project kick-off meeting and will normally include, but may not be limited to, the following key project control points.

- a. Project Kick-Off Meeting (Buyer/End-user and Seller)
- Site survey and/or supply of applicable site data (Buyer/End-user and Seller)
 - Site data (Buyer/End-user)
 - ii. Drawings and documentation (Buyer/End-user)
 - iii. Logistics Data (Buyer/End-user and Seller)
- c. Drawing submittals (Seller)
- d. Design review and approval (Buyer/End-user)
- e. Design freeze (Buyer/End-user and Seller)
- f. Factory acceptance test/Buyer witness test (Buyer/End-user and Seller)
- g. Supply of documentation for shipment (Buyer/End-user)

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- Support commissioning, start-up, site acceptance testing and handoff (Buyer/End-user and Seller)
- i. Delivery of documentation (Seller)

Unless otherwise agreed upon in advance, the work shall be executed in an uninterrupted and sequential fashion. If the work is interrupted by or for the convenience of the Buyer/End-user, or cannot be performed according to the schedule, the Seller has the right to submit a change order for incremental charges (for example multiple site trips or additional design review cycles, etc.). The Buyer/End-user shall be provided drawings of sufficient quality and thoroughness early in the project and be given one review cycle, to submit comments and request changes. The review cycle is typically three weeks long but depends on the project schedule and will be reviewed and agreed upon at the Kickoff Meeting. After the review cycle the design will be considered frozen and the cost and schedule impact of requested changes will increase.

Work Assumptions

The works described herein will be scheduled on dates and at times which are mutually agreeable between the Buyer and Seller. Unless otherwise agreed upon in advance, work shall occur in an uninterrupted and sequential fashion. If the work is interrupted by or for the convenience of the Buyer, or cannot be performed according to the agreed Project Schedule, there will be separate charges for multiple trips and rescheduling of Seller's personal. Seller reserves the right to charge for additional costs incurred as a result of Buyer initiated changes. Buyer shall also remain liable for meeting milestone payments as agreed in the project schedule.

Title Transfer, and Risk of Loss

Title to Services shall pass to Buyer as performed. Seller shall deliver Products to Buyer EX Works Pune Factory, Incoterms 2010. Title Transfer and Risk of loss will be governed as per the delivery terms mentioned. The prices quoted are firm during the validity of the proposal.

Pricing Limitations

Seller reserves the right to review and re-quote this job if there is a discrepancy between this proposal and the purchase order. If Seller receives a specification between the issuance date of this proposal and receipt of the purchase order, Seller reserves the right to re-evaluate this proposal.

Changes to specifications, drawings, services or hardware will be evaluated by Seller for a Change in Scope to the contract. Seller will quote the changes and a customer change order must be received before work is to proceed.

The pricing breakouts outlined in this proposal are for accounting purposes only and are not to be considered as stand-alone prices.

PRICE: The total price for the supply of parts of GT listed in Appendix 'A' of this proposal is **Quoted in Indian Rupees only.** The price excludes GST, Freight and Insurance and which shall be extra to buyers (Customer) account. As applicable for both supply & services.

SHIPMENT, FREIGHT & INSURANCE: BGGTS have quoted Ex Works/ Ex Suppliers works prices, which do not include the insurance and freight. The same shall be arranged and borne by buyer (customer) only.

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DUTIES: BGGTS has not included in its price the GST, which are extra payable by buyer (customer), as applicable on the date of dispatch. If VAT is applicable at the time of dispatch, same shall be applicable as extra at actuals. As applicable for both supply & services.

TERMS OF PAYMENTS: A. 100% against Exchange of Documents. BGGTS shall arrange proforma invoice to enable purchaser to prepare cheque in advance and the same shall be exchanged Exchange of Documents.

DELIVERY: Delivery time mentioned in the attached Appendix-A is based on standard cycle time i.e 12 Months.

COVID-19 VIRUS: The parties acknowledge that the COVID-19 pandemic and government actions in response to it have affected and will continue to affect Seller's ability to deliver goods and services around the world (the "COVID-19 Impact"). In the event that the COVID-19 Impact affects Seller's ability to deliver on time or at the bid price, Seller shall be entitled to an equitable adjustment in schedule and price as appropriate, subject to Seller's obligation to work in good faith with Buyer to mitigate the impact on schedule and/or cost.

For Site Services, 100% on completion of the job and submission of invoice documents.

WARRANTY CLAUSE: Parts quoted by us are warranted for a period of 18 months from the date of dispatch or 12 months from the date of installation whichever expires earlier.

It is strongly recommended that, after supply of goods, subject to an order, purchaser to conduct material inspection at site within 30 days from the date of dispatch to avail the warranty benefit, when parts are not used immediately in the equipment.

For Site Services, workmanship warranty is NOT applicable.,

NON-ACCEPTANCE OF LIQUIDATED DAMAGES CLAUSE: As a company Policy, BGGTS shall not accept any liquidated damages clause for delays in delivery. However, BGGTS shall endeavor to meet delivery mentioned in quotation and even improves it wherever possible.

VALIDITY: This proposal shall remain valid 30 days from the date of proposal only.

ORDER CANCELLATION: Once the purchaser places the order, it cannot be cancelled unless seller accepts the cancellation in writing.

NON-ACCEPTANCE OF SECURITY CUM PERFORMANCE GUARANTEE CLAUSE NOT APPLICABLE.

Thanking you & Yours sincerely,

For BHEL-GE Gas Turbine Services Pvt. Limited.,

Mithun Pillai

Sr. Manager – Sales & Marketing

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APPENDIX-A

Products and/or Services Terms and Conditions 2019

NOTICE: Sale of any Product sandror Services is expressly conditioned on Buyer's assent to these Terms and Conditions. Any acceptance of Seller's expressly limited to acceptance of these Terms and Conditions and Seller expressly objects to any additional or different terms proposed by Buyer. No facility entry form shall modify these Terms and Conditions event fleigned by Seller's representative. Any order to perform work and Seller's performance of work shall constitute Buyer's assent to these Terms and Conditions. Unless otherwise specified in the quotation, Seller's quotation expires 30 days from its data and may be modified or withdrawn by Seller before receipt of Buyer's conforming acceptance.

1. Definitions

"Buyer" means the emity to which Selen is providing Products and/or Services under the Contract.

"Contract" means either the contract agreement agreed by text parties, or the purchase order agreed by Buyer and accepted by Seller in writing, for the sale of Products and/or Services, together with these Terms and Conditions, Seller's final quictation, the agreed suppo(s) of work, and Seller's order advisowhedgement. In the event of any conflict, the Terms and Conditions shall take precedence over other documents included in the Contract.

"Contract Price" means the agreed price stated in the Contract for the sale of Products and/or Services, including adjustments (if any) in accordance with the Contract

"Derivative Works" mount: (a) any work based upon one or more pre-existing works, such as a revision, enhancement, modification, translation, abridgement, condensation, expansion, extension or any other form in which such pre-existing works may be published, recast, transformed, or adapted, and that if prepared without the authorization of the owner of the copyright or other intellectual property right to such pro-existing works, would constitute an infringement of such copyright or other intellectual property right, and/or (b) any complication that occuparates such pre-existing works.

"Hazardoue Materiale" means any toxic or hazardous substance, hazardous material, dangerous or hazardinus waste, dangerous good, radicactive material, petroleum or petroleum-densed products or by-products, or any other chemical, substance, material or emission, that is regulated, listed or controlled pursuant to any nutional, state, provincial, or local law, statute, ordinance, directive, regulation or other legal requirement of the United States ("US") or the country of the Ste.

"insolvent/Bankrupt" means that a party is insolvent, makes an appropriate for the benefit of its creditors, has an administrator, receiver, liquidator or trustees appointed for it or any of its assets, or files or has filed against it a processing under any bankruptcy, emplecicly dissolution or liquidation laws.

"Products" means the equipment, parts, materials, supplies, software, and other goods Seller has agreed to supply to Buyer under the Contract.

'Selist' means the entity providing Products or performing Services under the

"Services" means the services Solor has agreed to perform for Buyer under the Contract.

"Ste" means the premises where Products are used or Services are performed, not including Setter's premises from which it performs Services

'Terms and Conditions' means these 'Reducts and'or Services Terms and Conditions', including any relevant addends pursuant to Article 18, together with any modifications or additional provisions specifically stated in Seller's final quotation or specifically agreed upon by Seller in writing

"USD" means United States Dollars.

2. Payment
2.1 Bayer shall pay Selier for the Products and/or Services by paying all invoicest amounts by direct bank transfer in the currency specified by Selier in the Confract, without deduction, Withholdingor set-off for any payment or claim, within thirty (20) days from the invoice date. If the Contract Price is less than two hypored fifty thousand USD (\$250,000), Selier shall issue invoices upon shipment of Products and as Services are performed. If the Contract Price is two hundred 6fty thousand USD (\$250,000) or more, progress payments shall be invoiced starting with twenty-five percent (25%) of the Contract Price for Products and/or Services upon the earlier of Contract signiture or issuance of Seler's order administrationaries and continuing such that the Contract Price for remaining Services is invoiced as they are performed and ninetry porcent (90%) of the Contract Price for Products is received an entry are performed and ninetry porcent (90%) of the Contract Price for Products is received before the saffest scheduled Product shipment ("Progress Payments"). For each calendar month, or fraction thereof, that payment is late, Buyer shall pay a late payment change compared at the rate of 1.5% per manth on the reversal belance, or the maximum rate permitted by law if it is less. If the price is set by the Contract in a currency other than USO, references to USO in this Section 2.1 shall mean the equivalent arrount in the applicable currency.

2.2 As and if requested by Seller, Buyer shall at its expense establish and keep in

2.2. As and if requested by Seller, Buyer shall at the expense establish and leave incree payment security in the form of an irrevocable, unconditional, sight letter of credit or bank guarantee allowing for pribrate payments as Products are shaped and Services are performed, plus payment of cancellation and termination charges, and all other amounts due from Buyer under the Contrast Phyrimint Security? The Phyrmont Security shall be (a) in a form, and issued or confirmed by a bank acceptable to Seler, (b) payable at the counters of such acceptable bank or registrating bank (c) opined at least sizely (00) days prior to both the defined scheduled shapment of Products and CONTRECENT of Services, and (d) remain in the confirment. effect until the latest of rinery (50) days after the last scheduled Product shipment, completion of all Services and Seller's receipt of the final payment required under

the Contract. Buyer shall, at its exponen, increase the amount(s), extend the validity period(s) and make other appropriate modifications to any Payment Security within ten (0) days of Seler's notification that such adjustment is necessary in con-Buyer's obligations under the Contract.

Layer so conjunction around the continuous of continuous its performance unless and until any LS seller is not required to continuous or continuous its performance unless and until any required Psyment Security is received, operative and in effect and all applicable Progress. Psyments have been received. Or each day of delay in receiving any Progress Psyments or acceptable Psyment Security, Seller shall be entitled to an equitation extension of time to durations or periods of time (if any) expressly agreed to by the Parties in the written schedule for performance and/or completion of the Services or any ports thereof. If at any time Sellor reasonably determines that Buyer's financial condition or payment history does not justify continuation of Seller's performance, Seller shall be entitled to require full or partial payment in advance or otherwise restructure payments, request additional forms of Payment Security, suspend its performance or terminate the Contract.

Takes and Duttes

Selec' shall be responsible for all corporate taxes renasured by not income due to performance of or payment for work under this Contract ("Selec Taxes"). Buyer shall be responsible for all taxes, duties, fees, or other charges of any nature (including, but not limited to, consumption, gross receipts, import, property, sales, stamp, turnover, use, or walks-added taxes, and all items of withholding deficiency, penalty, addition to tax, interest, or assessment related thereto, imposed by any governmental authority on Buyer or Seller or its subcontractors) in relation to the Contract or the performance of or payment for work under the Contract other than Seller Taxes ("Buyer Taxes"). The Contract Price does not include the amount of any Buyer Taxes. If Buyer deducts or withholds Buyer Taxes. Buyer shall pay additional amounts so that Seller receives the full Contract Price without modection for Buyer Taxes. Buyer shall provide to Seller, within one month of payment, official recogns from the applicable governmental authority for deducted or withheld taxes.

 veilvertes, Title Transfer, Rek of Lose, Storage
 For shipments that do not involve export, including shapments from one coronear Union ("AU") country to another SU country, Saler shall deliver Products to Bayer -C-Selier's facility or warehouse (incaterns, 20-0), For export disprisents, Selier shall deliver Products to Buyer FCA Port of Export (Incoterns, 2010). Buyer shall pay all delivery costs. and charges of pay Selier's standard shipping charges plus up to twenty-five (25%) percent. Partial deliveries are permitted. Seller may deliver Products in advance of the delivery schedule. If Products delivered do not correspond in quantity, type or price to those itemums in the shipping invoice or **uccurrent to** a Buyer shall so not ify Seller ten (+0) days after recestif.

A2 or shipments that do not involve export, title to Products shall pass to Buyer upon delivery in accordance with Section 4. For export shipments from a Seller facility or warehouse outside the US, title shall pass to Buyer upon delivery in accordance with Section 4.1. For shipments from the US to accordance country, title shall pens to Buyer ammediately after each dom departs from the US to according country, title shall pens to Buyer ammediately after each dom departs from the territorial land, seas and overlying airrapace of the US. The 1962 United Halloca Convention of the law of the Sea shall apply to determine the US territorial sees. For all other shipments, title to Products shall pass to Buyer the earlier of (i) the port of export immediately upon clearance of Products for eayer the earlier or (i) the post of export instructively open construct or reduces the region to (ii) immediately after each tiem departs from the territorial land, sees and overrying alrepace of the sending country. When Buyer arranges the export or intercommunity shipment, Buyer will provide Seller evidence of exportation or intercommunity shipment acceptable to the relevant law and custom authorities. Where Seller is responsible for importing or directly or indirectly reimburses Buyer for import Seller is responsible for importing or directly or indirectly reimburses flayer for import costs. Buyer agrees to ture import irranged through that agreety of one of Seller is approved global customs brokers, whereby Seller will provide impaint support for interactions. If Buyer arranges for any import of Parts, Buyer may not use any tind party vendor for providing customs clearance services until Seller has approved such party prior to shipment of the Parts. Notwithstanding the foregoing. Seller grants only a non-exclusive license, and does not pass title for any software provided by Seller under this Chotract, and title to any leased equipment remains with Seller.

4.3 Pask of loss shall pass to Buyer upon defivery cursums to Section 4.1, except that for expant shipments from the U.S. risk of loss shall transfer to Buyer upon title passage.

4.4 If any Products to be defivered under this Contract or if any Buyer expanent required at Seller's facilities cannot be shipped to be received by Buyer when ready due to any cause attributable to Buyer or its other contractions, Seller may ship the Products and equipment

attributable to Buyer or this other contractions, Selfer may ship the Products and equipment to a storage facility including storage at the place of MENUTACLE eor repair, or to an agreed freight threwarder. If Selfer places Products or equipment into storage, the following apply.

(i) Intle and risk of loss immediately pass to Buyer, if they have not already passed, and delivery shall be deemed to have occurred, (ii) any amounts otherwise payable to Selfer upon delivery or alignment shall be due (iii) all expenses and charges insured by Selfer related to this storage shall be payable by Buyer upon submission of Selfer's invances and (iv) when conditions permit and upon poynent of all amounts due. Selfer shall make

Prinducts and required equipment available to Buyer for delivery.

4.5 if repair Services are to be performed on Buyer's equipment at Seller's facility, Buyer shall be reappressed for and shall retain risk of into of, such equipment at all times, except that Seller shall be responsible for damage to the equipment while at Seller's facility to

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the esternt auch damage is caused by Saller's regisperice.

4.6 Except as otherwise expressly agreed to by the Parties in writing, acceptance of Product shall be deemed to occur upon deliviny; acceptance of Services shall be deemed to occur upon performance of the Services. Acceptance shall not be deliuped by delays in provision of documentation or other non-conformance which do not prevent operation of Suyer's equipment, nor by requirements which the Contract contemplates may be carried out after acceptance.

 Warranty
 Sellar warrants that Products shall be delivered free from defects in material. workmanship and title and that Services shall be performed in a competent, diligent manner in accordance with any mutually agreed specifications incorporated into the Contract.

52 The warranty for Products shall expire one (1) year from first use or eighteen (16) months from delivery, whichever occurs first, except that software is warranted for rinety (90) days from delivery; and the warranty for Services shall expire one (1) year after performance of the Service, except that software related.

- Services are warrant of for minuty (60) days (as applicable, the "Warranty Period").

 5.3 If Products and/or Services do not meet the above warranties. Buyer shall promptly notify Seller in writing prior to expiration of the applicable Warranty Period. Seller shall (i) at its option, repair or regisce defeative Products and (ii) he perform defeative Services. If despite Seller's reasonable efforts, a non-conforming Product cannot be repaired or replaced, or non-conforming Services cannot be reperformed. Seller shall refuse to credit moniting particles cannot be reperformed. Seller shall refuse to credit moniting particles cannot be reperformed. Seller shall not extend or review the applicable Warranty Period. Seller's warranty obligations exclude the region or replacement of any demaged parts or Products other than the initially falling part which caused the damage. Buyer shall obtain Seller's agreement on the specifications of any tests it provided to determine whether a non-conformance exists.

 5.4 Buyer shall bear the colds of access for Seller's remodul warranty efforts.
- industrigementated and replacement of systems, \$ffoctureSec other parts of Buyer's facility), de-installation, decontamentation, re-installation and transportation of defective Products to Selec and back (o Buyer.

 5.5 The warranties and remedees are conditioned upon (a) proper storage, restallation, use, operation, and maintenance of Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and provising Seiter access to those records, and (c) modification or repair of Products and/or Services only as authorized by Selim in writing. Failure to meet any such conditions renders the warranty null and void. Seler is not responsible for narmal wear and tear.

 5.6 This Article 5 provides the exclusive remodes for all claims based upon the
- faiture of or defect in Products or Services, whether the claim is based in contract, negligence, statute, or any tortious/estra-contractual liability theory, strict liability or otherwise. The foregoing warranties in this Article 5 are exclusive and are in lieu of all other warranties, conditions and gurrantees whether written, and, implied or statuting. NO INFRIED OR STATUTORY WARRANTY, OR WARRANTY, OR CONDITION OF MEROWAITABLITY, QUALITY OR FITNESS FOR A PARTICULAR. PLEPOSE APPLIES

E. Confidentiality

€ Confidentiality
£1 Selection Buyer (as to information decisesed, the "Disclosing Party") may each provide the other party (as to information recovered, the "Receiving Party") with Confidential Information in connection with this Contract. "Confidential Confidential Information in connection with this Contract. "Confidential Information" means information that is designated in writing as "confidential" or "proprietary" by Disclosing Party at the time of written disclosure. In addition, prices for Products and/or Services shall be considered Seller's Confidential. information.

Receiving Party agrees: (i) to use the Confidential Information only in connection with the Contract and use of Products and/or Services, (ii) to take resoundfile measures to present disclosure of the Confidential information to third parties, and (iii) not to disclose the Confidential information to a competitor of Disclosing Party. Nativitiresanding these restrictions, (a) Saller may disclose Confidencial Information to its affiliates and subcontractors in consection with Confidential Information to its affiliates and subcontractors in connection with performance of the Contract, (b) a Receiving Party may disclose Confidential Information to its auditors. (c) Buyer may disclose Confidential Information to lenders as necessary for Buyer (a secure or retain financing needed to perform its obligations under the Contract, and (d) a Receiving Party may disclose Confidential Information to any other thind party with the prior written permission of Disclosing Party, and in each case, only so long-siste Receiving Party obtains a non-disclosure commitment from any such subconfinations, auditors, tenders or other permitted third party that provides disclosure of the Confidential Information and provided further that the Receiving Party immains responsible for any unautinated one or disclosure of the Confidential Information. Receiving Party shall upon request nature to Disclosing Party or destroy all capies of Confidential Information except to the extent that a specific provision of the Confidential Information except to the extent that a specific provision of the Confidential Information except of Buyer's Confidential Information. Safer may also retain one archive copy of Buyer's Confidential Information that (f) is or becomes generally available to the public

The congations became in the Prices of some the apply of any portion of the Confidencial Information that: (I) at or becomes generally available to the public other than as a result of disclosure by Receiving Party, its representatives or its affiliates, (ii) is or becomes available to Receiving Party on a non-confidential basis from a source other than Disclosing Party when the success is not, to the best of Receiving Party's knowledge, subject to a confidentiality obligation to Disclosing

Party; (iii) is independently developed by Secenting Party, its impresentatives or affiliates, without reference to the Confidential Information, (iv) is required to be disclosed by law or valid legal process provided that the Receiving Party intending to make discours in response to such requirements or process shall promptly notify the Discourag Party in advance of such disclosure and reasonably cooperate in attempts to maintain the confidentiality of the Confidential Information.

6.4. Each Disclosing Party warrants that it has the right to disclose the information that it

discloses. Neither Buyer nor Seller shall make any public announcement about the Contract without prior written approved of the other party. As to any individual item of Confidential Information, the restrictions under this Article 6 shall expire five (5) years after the date of disclosure. Trade secrets that are contained in or comprise Confidential Information are to be proteded for the life of the trade secret. Article fi does not supersade any separate confidentiality or condiscionurs agraement signed by the parties.

r. infelection Property 7.1 Selection and indemnify Buyer against any claim by a non-affiliated thed party (a "Deim") alloging that Products and/or Services furnished under this Contract infringe a patient in effect in the U.S. on U.J. intempter state or the country of the Site. provided there is a corresponding potent issued by the US or an ELI member state), or any copyright or trademark registered in the country of the Ste, provided that Buyer (a) promptly notifies Seller in writing of the Carm, (b) makes no admission of liability and does not take any position adverse to Seller, (c) gives Seller sola authority to control defense. and settlement of the Claim, and (d) provides Seter with full disclosure and reasonable assistance as required to defend the Claim.

Table lance as required to determine claim.

7.2 Section 7.1 shall not apply and Saller shall have no obligation or liability with respect to any Claim based upon (a) Products and/or Services that have been modified, or neissed. to any summanise upon (a) Products and or Services with other products, and/or services with other products, and/or services with other products, and/or services when such combination is a basis of the alteged infringement, (c) faiture of Buyer to implement any update provided by Sellier that would have prevented the Claim, (d) unauthorized use of Philadocts and/or Services; or (e) Products and/or Services muste or performed to Buyer's specifications.

Product any Product and/or Service, or any portion thereof, became the subject of a Claim, Seller may at its option (a) produce for Buyer the right to continue using the Product and/or Service, or applicable portion thereof, (b) modify or replace it in whole or in part to make it non-infringing, or (b) failing (a) or (b) take back infringing Products and/or documence infringing Services and refund the prior received by Seller attributable to the infringing Products and/or Services.

1.4 Article 7 states Seller's exclusive liability for intellectual property infringer others and or Services.

7.5 Each party shall retain ownership of all Confidential Information and intellectual properly it had prior to the Contract. All rights in and to software not impressly granted to Buyer are reserved by Seler. All new Intellectual property conceived or created by Seler. in this performance of this Contract, whether alone or with any contribution from Bayer, shall be owned exclusively by Seler. Buyer agrees to deliver assignment documentation

as necessary to active (that result.

7.5 Euger will not itself, and will not allow any party (including Buyer Affiliates) to: (i) resense engineer Products or Services (including any Seller monitoring or data analysis by Seller), (ii) prepare Derivative Works from after, modify, disceremble, reverse engineer, reverse easemble, de-comple, or differeless attempt to reconstruct, discover or derive the object or source code of any software licensed to Buyer by Seller under this Contract (educing any third party software); (iii) permit or atherwise grant any third-party society. to Products. Services or software for such purpose, even if such third party is performing

any corrections, bug fixes and updates.

1.7 Products furnished by Selier under this Contract shall not be installed, used, or made available for use in any equipment other than the equipment specified in the Cantract at Buyer's Size. Buyer warrants that such equipment, and the Ste, is under its ownership and control, and agrees to inform Seller forthwith should this cause to be the case at any time before expiry of the Warranty Period.

8. Indemnity

Such of Buyer and Selier (as an "indemnifying Party") shall indemnify the other party (as an "indemnified Party") from and against claims brought by a third party, on secount of personal rejury or damage to the third party's tampble property, to the extent caused by the negligence of the indemnifying Party in connection with this Costract, in the event he injury or damage is caused by joint or constants beginning of Buyer and Selier, the loss or exposes shall be borne by each party in proportion to its degree of negligence. For purposes of Seller's indemnity obligation, no part of the Products or Ste is considered.

During the term of the Contract, Selier shall maintain for its protection the following During the term of the Contract, Saller shall maintain for its protection the following insurance coverage: (i) Worker's Compensation, Employer's Liability and other statutory trauminous required by (law with respect to work related injuries or discase of employees of Saller or such form(s) and amount(s) as required by applicable laws; (ii) Automobile Liability insurance with a combined engin limit of \$2,500,000.00; and (iii) Commercial General Liability or Public Liability insurance for bodily injury and property damage with a combined single-limit of \$2,500,000.00. If required in the Contract, Saller shall provide a certificate of insurance reflecting such coverage.

11. 5 hedule and Excusable Event's

12.7 Any durations or periods of time quoted on the schedule or utherwise agreed for performance, delivery and/or completion of the Services or delivery of Products shall be regarded as estimated only. In addition, delivery times are dependent upon prompt receipt by Selar of all information necessary to proceed with the work without.

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BHEL-GE Gas Turbine Services Pvt. Ltd.

the extent such damage is caused by Seller's negligence

4.5 Except as otherwise expressly agreed to by the Parties in writing, acceptance of Products shall be deemed to occur upon delivery, acceptance of Services shall be deemed to occur upon performance of the Services. Acceptance shall not be delayed by delays in provision of documentation or other non-conformances which do not prevent operation of Euyer's equipment, nor by requirements which the Contract contemplates may be carried out after acceptance.

5. Warranty

- 5.1 Seller warrants that Products shall be delivered free from defects in material, workmanship and title and that Services shall be performed in a competent, diligent manuse in accordance with any mutually agreed specifications incorporated into the Contract.
- 5.2 The warranty for Products shall expire one (1) year from final use or eighteen (18) months from delivery, whichever occurs first, except that software is warranted for rivesty (90) days from delivery, and the warranty for Services shall eight one (1) year after performance of the Service, except that software instituted Services are warranted for minuty (90) days (as prolains) the "Weignet' Period".
- Services are warranted for nimity (90) days (as applicable, the "Warranty Period").

 \$3.3 If Products and/or Services do not meet the above warrantee. Buyer shall promptly notify Setter in writing prior to expiration of the applicable Warranty Period. Selver shall (i) at its option, repair or replace defective Products and (ii) the period of selective Services. If deeple selver's remainable efforts, a non-conforming Product cannot be respected or replaced, or non-conforming Services cannot be reperformed. Selver shall refund or credit mones paid by Buyer for such non-conforming Products and/or Services. Warranty repair, replacement or reperformance by Selver warranty obtains not extend or remain the applicable Warranty Period. Selver's warranty obtains not extend or remain the applicable Warranty Period. Selver's warranty obtains on the demandance of any demanded parts or Products other than the initially failing part which caused the durings Buyer shall obtain Seller's agreement or the specifications of any tests it plans to conduct to determine whether a non-conformance exists.

 \$4. Buyer shall be not the costs of access for Seller's remaided warranty efforts.
- 5.4 Buyer shall bear the costs of access for Seller's remedial warranty efforts (including removal and replacement of systems, ETUCLIPS to other parts of Buyer's facility), de-installation, decontamination, re-installation and transportation of defective Products to Seller and back to Buyer.
- 5.5 The warranties and retredies are conditioned upon (a) proper storage, installation, use, operation, and maintenance of Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Selter access to these records and (c) modification or repair of Products and/or Services only as authorized by Selter in writing. Failure to meet any such conditions condens the warranty null and vaid. Selter is not responsible for normal waitr and tour.
- 5.6 This Article 5 provides the exclusive remoders for all claims based upon the failure of or defect in Products or Services, whether the claim is based in contract, regigence, statute, or any tortious Potra-contractual liability theory, strict fability or otherwise. The foreigning warranties in this Article 5 are exclusive and are in finual all other warranties, conditions and guarantees whether written, one, implied or stimutary. NO IMPLIED OR STATUTORY WARRANTY, OR WARRANTY OR CONDITION OF MERO-WAITABLITY, DEWLITY OR ITINESS FOR A SARTICLEAR RURPOSE APPLIES.

E. Confidentiality

- €1. Seler and Buyer (as to information disclosed, the "Disclosing Party") may each provide the other party (as to information received, the "Receiving Party") with Confidential Information in correction with this Contract. "Confidential Information that is designated in writing as "orificiential" or "proprietary" by Disclosing Party at the time of writing disclosure. In addition, prices for Products and/or Services shall be considered Seler's Confidential Information.
- Formation.

 6.2 Receiving Party agrees: (i) to use the Confidential Information only in connection with the Centract and use of Products and/or Services, (ii) to take resonants measurants operated indicosum of the Confidential Information to third parties, and (iii) not to disclose the Confidential Information to a competitor of Disclosing Party. Notwithstanding these restrictions, (ii) Seller may disclose Confidential Information to the Confidential Information to its affiliates and subcuntractors in connection with performance of the Contract, (b) a Receiving Party may disclose Confidential Information to its auditors. (c) Buyer may disclose Confidential Information to lenders as necessary for Buyer to secure or return financing needed to perform its obligations under the Contract, and (d) a Receiving Party may decides Confidential Information to any other third party with the prior will see permission of Disclosing Party, and in such case, only so long as the Receiving Party doll arise a ton-disclosure commitment from any such subcontributors, auditors, lenders or other permitted third party that prohibits disclosure of the Confidential Information and provided further that the Receiving Party manufactured use or disclosure of the Confidential Information Receiving Party whall upon request return to Disclosing Party or destroy all copies of Confidential Information except to the extent that a specific provision of the Confidential Information except to the extent that a specific provision of the Confidential Information except to the extent that a specific provision of the Confidential Information and particles and on a section of the Confidential Information.
- of Buyer's Confidential Information.

 §3. The obligations under this Article 6 shall not apply to any portion of the Confidential Information that: (i) is or becomes generally available to the public other than as a result of disclosure by Receiving Party, its representatives or its affailment, (ii) in or becomes existant to Receiving Party on a non-confidential basis from a source-other than Disclosing Party when the source is not, to the best of Receiving Party's knowledge, subject to a confidentiality obligation to Disclosing.

Party, (iii) is independently developed by Recoving Party, its representatives or affiliates, without inference to the Confidential Information, (iv) is required to be disclosed by taw or wild legal process provided that the Receiving Party intending to make disclosure in response to such requirements or process shall promptly hotily the Disclosing Party in advance of such disclosure and reasonably cooperate or attempts to maintain the confidentiality of the Confidential information.

confidentiality of the Confidential Information.

E.4. Each Disclosing Porty warrants that it has the right to disclose the information that it discloses. Neither Slayer nor Safer shall make any public amouncement about the Contract without prior written approval of the other party. As to any individual item of Confidential Information, the matricions under this Article 6 shall eigen five (5) years after the dain of disclosure. Trade secrets that are continued on or comprise Confidential Information are to be protected for the life of the trade secret. Article 6 does not supersede any separate confidentiality or operations agreement signed by the parties.

7. Intellectual Property

- 7. In Selfer shall defend and indemnify Buyer against any claim by a non-affiliated third party (a "Claim") attaging that Products and/or Services furnished under the Contract infiring a potent in effect in the U.S. an EU monitive state or the country of the Site (provided there is a corresponding patent issued by the U.S. or any EU monitive state), or any copyright or Indemnife registered in the country of the Site, provided that Buyer (a) promptly notifies Seller in writing of the Claim, (b) makes no admission of liability and does not take any position adverse to Seller, (c) gives Seller sole authority to contrat defense and artitioned of the Claim, and (d) provides Seller with full disclosure and researched assettance as required to defend the Claim.
- 7.2. Section 7.1 shall not apply and Seller shall have no obligation or liability with respect to any Chin based upon (a) Products and/or Services that have been modified, or reveald. (b) the continuation of any Products and/or Services with other products and/or services when such combination to a beats of the alleged inflingment, (c) failure of Buyer to implement any update products and/or Services who would have prevented the Claim, (d) unauthorand use of Philadets and/or Services, or (e) Products and/or Services made or performed to Buyer's specifications.
- patterment to Buyer's spectruments.
 7.3 Should any Product and/or Service, or any portion thereof, become the subject of a Claim. Safer may at its option (a) procure for Buyer the right to continue using the Product and/or Service, or againable portion thereof, (b) modify or replace it in whole or in part to make it most infringing or (c) failing (a) or (b) take back infringing Products and/or descentinue infringing Services and refund the prior session by Select attributable to the infringing Products and/or Services.
 7.4. Autor 3.7 states Selects's extracts insult to be intellectual property infringentiat. By
- 7.4 Article 7 states Seller's exclusive liability for intellectual property infringement by Products and/or Services.
- 7-5 Each party shall retain ownership of all Confidential Information and intellectual property it had prior to the Contract. All rights in and to software not expressly granted to flager are reserved by Seiler. All new Intellectual property conceived or Created by Seiler in the performance of this Contract, whether along or with any contribution from Boyer, shall be owned exclusively by Seiler. Buyer agrees to deliver assignment documentation as necessary to achieve that must.
- an increasery to achieve that remail.

 7.5 Bayer will not itself, and will not allow any party (including Buyer Affiliates) to: (i) reverse engineer Products or Services (including any Selver monitoring or tata analysis by Selver, (ii) prepare Demonstrative Works from, after, modify, discessenble, neverse engineer, reverse ensemble, de compile, or otherwise attempt to reconstruct, descover or derive the object or source code of any software identified to Buyer by Selver under this Centract (including any third party software); (iii) primit or otherwise grant any third party access to Products. Services or software for such purpose, even if such third party is performing any corrections, bug fixes and updates.
- Thy contraction, our resembled by Selier funder their Contract shall not be visitalled, used, or made availabile for use in any equipment other than the engigment specified in the Contract at Buyin's Site. Buyer warrants that such equipment, and the Site, is under its ownership and confirst, and agreem to inform Selier forthwith should this cause to be the case at any time before expiry of the Warranty Period:

8. Indemnity

Each of Buyer and Seler (as an "Indominifying Party") shall indominify the other party (as an "Indominified Party") from and against claims brought by a third party, on account of paracruli injury or damage to the third party's tangible property, to the estant caused by the negligence of the indominifying Party in connection with this Contract. In the event this injury or damage is caused by joint or concurrent negligence of Buyer and Seller, the loss or response shall be borne by itself party in proportion to its degree of negligence. For purposes of Seler's indominity obligation, no part of the Products or Site is considered that party property.

5. Insurano

During the (orm of the Contract, Seller shall maintain for its protection the following insurance coverage: (i) Worker's Compensation. Employer's Liability and other statutory insurance required by taw with respect to work related injuries or disease of employees of Seller in such form(s) and amount(s) as required by applicable laws; (ii) Automobile Liability insurance with a combined single limit of \$2.500,000.00, and (iii) Commencial Central Liability or Public Liability insurance for bodily injury and property damage with a combined single limit of \$2.500,000.00. If required in the Contract, Seller shall provide a continued of insurance reflecting such coverage.

10. Schedule and Excusable Event's

10.1 Wily durations or periods of time quoted on the schedule or otherwise agreed for performance, delivery analor completion of the Services or delivery of Froducts shall be regarded as estimated only. In addition, delivery times are dependent upon prompt receipt by Select of all information recoesary to proceed with the work without.

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interruption. In the event Seller agrees in writing to guaranteed performance, delivery and/or completion times and specific sums as liquidated damages for late performance, delivery or completion, any such liability for damages shall only continuence when the period of delay exceeds the guaranteed date or time by 14 (fourteen) calendar days and liquidated damages may be applied and be levied only from that 14th day onwards. Payment of liquidated damages shall be in full and from intrian faith day orwards. Payment of inquisities carriages shall be in fail and final intritement of any and all liability of the Seller for delays under the Contract and shall be Buyer's sole and exclusive remedy for failing to achieve the performance, delivery and/or completion guarantee. The Seller's musimum aggregate liability for liquidated damages for delay shall in no circumstances exceed 5% (five per cent) of the total amount of the Contract Price paid to the

Sides:

10.2 Selier shall not be liable and shall not be considered in breach of any
obligations to supply manpower, deliver Products or its perform, deliver or
complete the Services or any parts thereof within specified durations or periods or
by a specified time if it is delayed or prevented, directly or indirectly, by any cause. beyond its researable control or by armed cardiot, acts or threats of terrorism, epidemics, strikes or other labor disturbances, or sots or omissions of any governmental authority or of the Buyer or Buyer's contractors or suppliers or for any period of suspension under Section 11.3. If any such cause or excusuable event occurs, the schedule for Selfer's performance shall be adjusted accordingly and dates or times stated in the achedule for performance and/or completion of the Services shall be extended by the amount of time text by reason of the event plus such additional time armay be needed to overcome the effect of the event. If adia or oministrated the Buyer or its contractors or supplies cause the delay, Seller shall also be entitled to an equitable price adjustment

11 Termination and Suspension

- 11.1 Bayer may terminate the Contract (or the portion affected) for cause if Soller (i) becomes insolvent/Bankrupt, or (ii) commits a material breach of the Contract which does not otherwise have a specified contractual namedy, provided that; (a) Buyer shall first provide Seller with detailed written notice of the breach and of Buyer's intention to terminate the Contract, and (b) Selim shall have failed, within 30 days after receipt of the notice, to commerce and diligently pursue care of the
- oreact.

 11.2 If Suyer terminates the Contract pursuant to Section 11.1 (i) Seller shall reimburse Suyer the difference between that portion of the Contract Price shootble to the terminated scope and the actual amounts mesonably incurred by Buyer to complete that ecope, and (ii) Buyer shall pay to Sefer (ii) the portion of the Contract Price allocable to Products and/or Services campleted, (b) lease fees locurred, and (c) amounts for Services performed before the effective date of termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set forth in the Contract (for work toward milestones not yet achieved and whom there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at Seller's then current standard time and material rates.
- 11.3 Seller may suspend or terminate the Contract (or any affected portion thereof) intrediately for cause if Suyer (i) becomes treolvers/Bankrupt, or (ii) materially breaches the Contract, including but not limited to, fellure or delay in the contract. Buyer providing Payment Security, making any payment when due, or fulfilling any mt conditions
- payment conductors.

 11.4 If the Contract (or any parties thereof) is terminated for any reason other than. Seller's definall under Section 11.1, Bayer shall pay Seller for all Products completed, lease fees incurred and Sarvices performed before the effective date of fermination, plus expenses reasonabily incurred by Seller in connection with the termination. The amount due for Services shall be determined in accordance with the milestone schedule (for completed milestones) and rates set furth in the Contract (for work toward milestones not yet achieved and where there is no milestone schedule), as applicable or, where there are no milestones and/or rates in the Contract, at 'Seler's then current standard time and material rates. All work or progress shall be paid for all Seller's standard time and material rates, in autilition, Rayer strail pay Seller a cancellation charge agust to III/V of the Contract Prior applicable to uncompleted made-to-order Products and or Services and 15% of the
- Centract Price applicable to all other uncompleted Products and/or Services. 11.5 Bither Buyer or Soller may berminate the Centract (or the portion affected) upon (wenty (20) days advance notice if there is an excurable event. (as described in Article 10) lasting longer than one hundred and twenty (126) days. In such case, Buyer shall pay to Seller amounts payable under Section 11.4, excluding the
- carpet shall pay to dollar impounts payme driver doctor. If it excluding the carpettation change for uncompleted Products antifor Services.

 11.6. Suyer shall pay all minimizable expenses incurred by Seller in connection with a suspension, including but not limited to, expenses for representation facilities collection, demolobization immobilization, and costs of storage during suspension. The achedible for Seller's obligations shall be extended for a period of time reasonably necessary to overcome the effects of any suspension.

12. Compliance with Laws, Codes and Standards

- 12.1 Salike shall comply with laws applicable to the manufacture of Products and its performance of Services. Buyer shall comply with laws applicable to the application, operation, use and disposal of the Products and Services.
- application, operation, serrand disposs of the Productanid Services. 12.2 Seller's deligible term are consist formed upon Buyer's campliance with all U.S. EU and other applicable trade control laws and regulations. Buyer shall not trans-ship, te export, divert or direct or otherwise travet or allow any disposition of Products after than in and to the utilizate causiny of destination discharged by Buyer and specified as the country of ultimate destination on Seller's invoice. Buyer increby

partities that the equipment, materies, services, technical data, software or other information or assistance furnished by Seller under this Contract will not be used in the design, development, production, sincepling or use of chemical, biological, or nucleor weapons either by Buyer or by any entity acting on Buyer's behalf.

.2.7 i otwithstanding any other provision. Buyer shall timely obtain, effectuate and maintain in force any required permit, license, exemption, filing, registration and other authorization, including but not limited to, building and environmental permits, import. licenses, environmental impact assessments, and foreign exchange authorizations, required for the lawful performance of Services at the Site or fulfillment of Buyer's obligations, except that Seller shall obtain any license or registration recessary for Seller to generally conduct business and visas or work ournits, if any, recessary for Seller's personnel. Buyer shall provide reasonable assistance to Seller in obtaining such visas and

En Iron ents., nee'th and Safety Matters

- 1 Buyer shall Maintain safe working conditions at the Stra, including, without limitation, implementing appropriate procedures regarding assertives. Materials, confined space entry, and energization and SE-STA-STA-STA-OF power systems (relectrical, mechanical and hydraulic) using safe and effective lack-out/tag-out (LOTO) procedures including
- physicalTO or a mutually agreed upon alternative method.
 2 Buyer shall timely advise Seller in writing of all applicable Site-specific health, safety. stearity and environmental requirements and procedures. V-thout limiting flayer's responsibilities under Article 13, Seller has the right but not the obligation to from time to time, review and inspect applicable health, safety, security and environmental documentation, procedures and conditions at the Site.

 33.7 If, in Seller's reasonable opinion, the health, safety, or accurity of personnel or the
- from Site, suspend perform the of all or any part of the Contract, and/or remotely perform or supervise work. Any soch occurrence shall be considered an excusable event. Buyer shall reasonably assist in any such execution.

 1.A. Operation of Buyer's equipment is the responsibility of Buyer. Buyer shall not require
- or permit Saller's personnel to operate Buyer's equipment at Site.

 2. Buyer will make its Site medical facilities and resources available to Saller personnel.
- 3.2. Softer will make its Six medical facilities and resources available to Select personnel who need medical attention.
 3.5. Softer has no responsibility or facility for the pre-existing condition of Buyer's equipment or the Six. Prior to Select starting any work at Six. Buyer will provide documentation that identifies the presence and condition of any rusardous Materials. existing in or about Buyer's equipment or the Sise that Seller may encounter white performing under this Contract. Buyer shall disclose to Seller industrial hygiene and environmental monitoring data regarding conditions that may affect Seller's work or possornel at the Sise. Buyer shall keep Seller informed of changes in any such conditions.
- Seler shall not ify Suyer if Selier becomes aware of, (i) conditions at the Site differing materially from those disclosed by Buyer, or (ii) previously unknown physical canditions at Site differing materially from those ordinarily encountered and generally recognized as interest in work of the character provided for in the Contrast. If any such CONTRONS cause. an increase in Seller's cost of, or the time required for, performance of any part of the work
- under the Contract, an equitable adjustment in price and schedule shall be made.

 58 If Seller encounters -tazerdoon Materials in Buyer's equipment or at the See that require special handling or disposal, Seller is not obligated to continue work affected by the hazardous conditions. In such an event, Buyer shall stiminate the hazardous conditions in accordance with applicable laws and regulations so that Seller's work under the Contract may safely proceed, and Seller shall be entitled to an equitable adjustment of the price and schoolals to compensate for any excesser in Selev's cost of, or time required for, performance of any part of the work. Buyer shall properly stars, transport and dispose of all acardous -attenues introduced, produced or (priesisted in the course of Seler's work at the Site.
- 3.5 Buyer shall indemnify Seller for any and all claims, damages, losses, and expenses arising out of or relating to any Hazardous Materials which are or were (i) present in or shoul. Buyer's equipment in the Site prior to the consensorment of Seller's work, (ii) impropely function or disposed of by Buyer or Bryor's employeem agent, control and or subcontractors or subcontractors or (iii) brought, generated, produced or released on Site by parties other. than Seller

- .4. C*an .es .4.1 Each party may at any time propose changes in the schedule or scope of Products and/or Services. Seller is not obligated to proceed with any change until both parties agree upon such change in writing. The written change "OCUMENT-TION will describe the changes
- in accommod achedule, and the resulting changes in prior and other provisions, as agreed.

 42 The scope, Contract Price, schedule, and other provisions will be equitably adjusted to reflect additional costs or obligations incurred by Seller resulting from a change, after Seller's proposal date, in Buyer's Site-specific requirements or procedures, or in industry specifications, codes, standards, applicable laws or regulations. Unless otherwise agreed by the parties, pricing for additional work arising from such changes shall be at Seller's timer and material nation.
- .4.3 It shall be acceptable and not considered a change if Seller delivers a Product that bears a different, supersiding or new part or version number compared to the part or version number listed in the Contract.

F. Umitationed 1a*Wit;
F.1 To the maximum extent permitted by applicable law, the total lubility of Seller for all claims enising from or misted to the formation, performance or breach of this Contract, or provision of any Products and/or Services, shall not exceed the (i) Contract Price, or (ii) if

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Buyer places multiple order(s) under the Contract, the price of each particular order for all claims arising from or related to that order and ten thousand USD (US \$10,000) for all claims not part of any particular order.

15.2 Seier shall not be liable for ions of profit or newroes, loss of use of equipment or systems, interruption of business, cost of replacement power, cost of capital. downtime costs, increased operating costs, any special consequential, incidental, indirect, or puritive damages, or claims of Bayer's customers for any of the foregoing types of damages, or for any cost, loss or liability Bayer may suffer under any agreement by which it sells or transmits electricity to its customer(s) or third

15.3 All Seller liability shall end upon expiration of the applicable summitty period, provided that Buyer may continue to enforce a daim for which it has given notice. prior to that date by commencing an action or arbitration, as applicable under this Contract, before expiration of any statute of limitations or other legal time limitation but in no event later than one year after expiration of such warranty

15.4 Seller shall not be liable for advice or assistance that is not required for the

work according this Contract.

15.5 Buyer will not supply Products and/or Services to any third party, or use. Products and/or Services other than at the Site owned by Buyer, In case of non-compliance, Buyer shall (i) indentify and defend Seller from and against any and all claims by, and liability to, any third party to whom Products and/or Services are supplied, and (ii) require that the third party agree, for the benefit of and enforceable by Seller, to be bound by the provisions of Article 7 and all the limitations included in this Article 15.

15.6 For purposes of this Article 15, the term "Soller" means Seller, its affiliation.

subcontractors and suppliers of any tier, and their respective employees. The limitations in this Article 15 shall apply regardless of whether a claim is based in contract, negligenos statute, indomnity, tortious/extra-contractual liability theory, strict liability or otherwise.

16. Governing Law and Dispute Resolution

16.1 This Contract shall be governed by and construed in accordance with the laws of (i) the State of New York if Buyer's place of business is in the U.S. or (ii) England and Wales, if the Buyer's place of business is out side the U.S., in either case without giving effect to any choice of law rules that would cause the application of laws of any other principles.

19.2 All disputes and to the maximum sodem permitted by opplicable law, all non-contractual obligations arising to any way whatsoever out of or in connection with

this Contract arising in connection with this Contract, including any question regarding its existence or validity, shall be resolved in accordance with this Article. If a dispute is not resolved by regoliations, either purily may, by giving written notice, refer the dispute to amenting of appropriate higher MENOGEMENT, to be held within twenty (20) business days after the giving of notice. If the dispute is not resolved within thirty (10) business days after the giving of notice, or such later date as may be mutually agreed, either party may commerce arbitration or court proceedings, depending upon the location of the Buyer, in accordance with one of

(a) If the Buyer's portinent place of business is in the U.S., legal action shall be commenced in federal court with jurnidiction applicable to, or state court located in alther New York (and Buyer hereby consents to be subject to such New York federal and state jurisdiction) or the location of Buyer's principal place of

(b) If the Buyer's pertinent place of business is outside the U.S. the dispute shall be submitted to and finally resolved under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said Rules (the "Rules"). The said of unbitration shall be in London, England. The arbitration shall be conducted in English. The decision of the arbitrators shall be final and binding upon the parties.

16.3 Not with standing the foregoing each party stratitive the right at any time, at its option and where legally available, to commence an action or proceeding in a court of competent jurisdiction, subject to the terms of this Contract, to seek a restraining order, injunction, or similar order (but not monetary damages), or to seek interim or conservatory measures.

17. Inspection and Factory Tests

Seller will apply its normal quality control procedures in manufacturing Products. Seller shall attempt to accommodate requests by Buyer to witness Seller's factory tests of Products, subject to appropriate access restrictions, if such witnessing can be arranged without delaying the work.

 Software, Lessed Equipment, Remote Diagnostic Se vices, PCB Services 10. Software, Leased Equipment, Hernote Diagnostic Se vices, PCB Services. If Seller provides any software to Buyer, the Software License Addendum shall apply. If Seller leases any of Seller's equipment or provides resided Services to Buyer, including placing Seller's equipment at Buyer's site to provide remote Services, the Lease Addendum shall apply. If Seller provides remote diagnostic services to Buyer, the Pemote Diagnostic Services Addendum shall apply. If Seller provides PCB Services to Buyer, the PCB Services Addendum shall apply. If there is any conflict between these Products and/or Services Ferms and Conditions, and be testing the services to Buyer. the terms of any addendum incorporated pursuant to this Article 18, the terms of the addendum shall take precedence with respect to the applicable scape.

15. General Clauses

19.1 Products and Services sold by Selfer are not impanded, in whole or in part, for application (and will not be used) in connection with or nearby any nuclear facility or activity, and Buyer warrants that it shall not use or permit others to use Products and/or ces for any such purposes, without the advance written consent of Seller.

Services for any such purposes, without the adjunct written consum of Soller. 19.2 Seller may assign or nevate its rights and obligations under the Contract, in whole or in part, to any of its affiliates or may assign any of its accounts reconsistie under this Contract to any party without Buyer's connent. Buyer agrees to execute any documents that may be reconsulty to complete Seller's assignment or novation. Seller may subcontract partions of the work, so long as Seller remains responsible for it. The delegation or assignment by Buyer of any or all of its rights or obligations under the Contract without Seller's prior written consent (which consent shall not be unreasonably withheld) shall be void.

19.3 Buyer shall notify Seller immediately upon any change in ownership of more than fifty percent (50%) of Buyer's voting rights or of any controlling interest in Buyer. If Buyer fails to do so or Seller objects to the change, Seller may (a) terminate the Contract, (b) require Buyer to provide adequate assurance of performance (including but not limited to payment), and/or (c) put in place special controls regarding Seller's Confidential

13.4 If any Contract provision is found to be void or unenforceable, the remainder of the Contract shall not be affected. The parties will endeavor to replace any such void or unerforceable provision with a new provision that achieves substantially the same practical and economic effect and is valid and inforceable.

19.5 The following Articlate shall survive termination or cancellation of the Contract: 2, 3, 4, 5, 6, 7, 6, 10, 11, 12, 13, 15, 16, 16, 19 and 20.

19.6 The Contract represents the entire agreement between the parties. No oral or written representation or warranty not contained in this Contract shall be binding on either party. Buyer's and Sellier's rights, remedies and obligations arising from or related. to Products and/or Services sold under this Contract are limited to the rights, remedies and obligations stated in this Contract. No modification amendment, rescission or waiver

shall be binding on either party unless agreed in writing. 19.7 Except as provided in Article 15 (Limitations of Lasbillty), this Contract is only for the benefit of the parties and not for any third parties.

19.8 This Contract may be signed in multiple counterparts that together shall constitute

20. U.S. Government Confracts
20.1 This Article 20 applies only if the Confract is for the direct or indirect sale to any agency of the U.S. government and/or is funded in whole or in part by any agency of the

20.2 Buyer agrees that all Products anti/or Services provided by Seler meet the definition of "commercial off-the-shelf" ("COTS") or "commercial item" an those terms are defined in Federal Acquisition Regulation ("FAR") 2.101. To the extent the Buy Affericas Act, Trade Agreements Act, or other demestic preference requirements are applicable to this Contract, the country of origin of Products is unknown unless otherwise specifically stated by Seller in this Contract. Buyer agrees any Services offered by Seller are exempt from the Service Contract Act of 1985 (FARS2.222.41). Buyer represents and agrees that this Contract is not funded in whole or in part by American Recovery Perrivestment Act funds. unless otherwise specifically stated in the Contract. The version of any applicable FAR clause listed in this Article 20 shall be the one in effect on the effective date of this Contract

20.3 if Buyer is an agency of the U.S. Tovernment, then as permitted by FAR12.002. Buyer agrees that oil periographs of FAR \$2.212.4 (except those listed in 12.002(b)) are replaced with these Terms and Conditions. Buyer further agrees the subparagraphs of FAR\$2.212.5 apply only to the extent applicable for sale of CORS and/or commercial items and as appropriate for the Contract Price.

20.4 If Buyer is procuring the Products and pr Services as a contractor, or subcontractor at any tier, on behalf of any agency of the U.S. 20venment, then Buyer agrees that FAR 52.212-5(s) or 52.244-6 (whichever is applicable) applies only to the extent applicable for sale of COTS and/or commercial items and as appropriate for the Contract Price.

NTPC-Kawas Proposal No: QEW23- 0458 **BGGTS Proprietary Information**

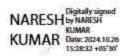
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Company	32			NTPC			
Name of the generating Station			Kawas Gas power project				
Month				Apr-23			
SL Particulars		Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD		
A) OPENING QUAR	NTITY		1				
1 Opening Stock of	of Gas/Oil	(1000 5CM)/MT	0.00	0:00	3,070		
2 Value of Stock		Rs	0.00	0.00	286,420,87		
B) QUANTITY							
3 Quantity of gas,	/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	902.82	4,424.85	1		
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00			
5 Gas supplied by	Gas Company (3+4)	(1000 SCM)/MT	902.82	4,424.85			
6 Normative trans	sit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 Net gas supplier	f (5 - 6)	(1000 5CM)/MT	902.82	4,424.85			
C) PRICE		100					
8 Amount charge	d by the Gas/Oil Company	Rs	44,729,283.97	208,357,463.29			
9 Adjustment (+ /	-) In amount charged by Gas Company	RS.	0.00	0.00	1		
10 Handling Sampl	ing and such other Similar charges	Rs	0.00	0.00			
11 Total Amount o	harged (8+9+10)	Rs	44,729,283.97	208,357,463.29			
D) TRANSPORTATI	ON	Rs					
12 Transportation	charges by Rall / Ship / Road Transport	1030					
By Rail		Rs	0.00	0.00			
By Road		Rs	0.00	0.00			
ByShip		Rs Rs	0.00	0.00			
By Pipe		Rs	1.512.374.03	7,786,905.71			
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00			
14 Demurrage cha		Rs.	0.00	0.00			
THE RESERVE OF THE PARTY OF THE	transporting Coal through MGR system, if applicable	Rs	NA	NA	NA		
	ation charges (12+/- 13 - 14 = 15)	Rs	1.512.374.03	7,786,905,71			
24100 m 1201 v	harged for Gas/Oil supplied including transportation (11 + 16)	Rs	46,241,658.00	215,144,369.00			
E) TOTAL COST	CONTRACTOR OF ELECTRONOMY CONTRACTOR OF ELECTRON AND AN ADMINISTRATION OF ELECTRON OF CONTRACTOR OF THE STATE		PINESKIN ACTORING	61. FASTON 4021 PAGE 1390.			
18 Landed Cost of	Gas { 2+17} / (1+7)	Rs/1000 SCM/MT	51,219.31	48,847.82	93,278		
19 Blending Ratio (Domestic/Imported)		0.017 0.0	NA.	5		
20 Weighted avera	ge cost of Gas			NA			
F) QUALITY			50)	90			
21 GCV of Gas of ti	ne opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA	NA		
22 GCV of Gas supp	oiled as per bill of Gas company	(kcal/SCM)	9552.92	10036.95	11299		
23 GCV of Importe	d coal of the opening coal stock as per bill of Gas company	(kcal/5CM)			NA		
24 GCV of Importe	d coal supplied as per bill of Gas company	(kcal/SCM)	II.				
25 Weighted avera	ge GCV of Coal /Lignite as billed	(kcal/5CM)		NA.			
26 GCV of Gas of th	ne Opening stock as received at station	(kcal/SCM)	NA	NA:	NA:		
27 GCV of Gas supp	olled as received at station	(kcai/SCM)	9552.92	10036.95	11299		
28 GCV of Importe	d coal of the Opening stock as received at station	(kcal/SCM)	75555555				
29 GCV of Importe	d coal supplied as received at station	(kcal/SCM)					
30 Weighted avera	ge GCV of GAS as received	(kcal/SCM)	9552.92	10036.95	11299		

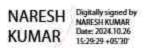
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Company	<u> </u>			NTPC			
Name of the generating Station			Kawas Gas power project				
Month				May-23			
SL Particula:	15	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD		
A) OPENING	QUANTITY		1				
1 Opening :	Stock of Gas/Oil	(1000 5CM)/MT	0.00	0.00	3,070.5		
2 Value of	Stock	Rs	0.00	0.00	286,420,877.9		
B) QUANTIT	Υ						
3 Quantity	of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	0.00	10,721.68	0.0		
4 Adjustme	ent (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.0		
5 Gas supp	lied by Gas Company (3+4)	(1000 SCM)/MT	0.00	10,721.68	0.0		
6 Normativ	e transit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 Net gas s	upplied (5 - 6)	(1000 5CM)/MT	0.00	10,721.68	0.0		
C) PRICE		100					
8 Amount o	harged by the Gas/Oil Company	Rs	0.00	493,215,121.97	0.0		
9 Adjustme	ent (+ / -) In amount charged by Gas Company	ÆS	0.00	0.00	0.0		
10 Handling	Sampling and such other Similar charges	Rs	0.00	0.00	0.0		
11 Total Am	ount charged (8+9+10)	Rs	0.00	493,215,121.97	0.0		
D) TRANSPO	RTATION	Æs		***************************************			
12 Transport	tation charges by Rall / Ship / Road Transport	1936					
By Rall		Rs	0.00	0.00	0.0		
By Road		Rs	0.00	0.00	0.0		
ByShip		Rs	0.00	0.00	0.0		
By Pipe		Rs	0.00	18.183.620.99	0.0		
	ent (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.0		
1000	ge charges, if any	Rs.	0.00	0.00	0.0		
	esel in transporting Coal through MGR system, if applicable	Rs	NA	NA	NA		
-	sportation charges (12+/- 13 - 14 + 15)	Rs	0.00	18.183.620.99	0.0		
100000000000000000000000000000000000000	ount charged for Gas/Oil supplied including transportation (11 + 15)	Rs	0.00	511.398.742.97	0.0		
E) TOTAL CO	in this was an error of a compare of a great model of the first manager of the street of the properties of the	1396	,,,,,,,	, A.A., J. S.	1900		
18 Landed C	ost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	0.00	47,697.62	93,278.9		
19 Blending	Ratio (Domestic/Imported)	11	11.1	NA.			
20 Weighted	average cost of Gas			NA			
F) QUALITY			5.01	0			
21 GCV of G	as of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA.	NA		
22 GCV of G	as supplied as per bill of Gas company	(kcal/SCM)	#DIV/01	9672.82	11299.2		
23 GCV of in	ported coal of the opening coal stock as per bill of Gas company	(kcai/5CM)			NA.		
24 GCV of In	ported coal supplied as per bill of Gas company	(kcai/SCM)					
25 Weighted	average GCV of Coal /Lignite as billed	(kcal/5CM)		NA.			
and the second	as of the Opening stock as received at station	(kcal/SCM)	NA	NA.	NA:		
	as supplied as received at station	(kcal/SCM)	#DIV/01	9672.82	11299.2		
	ported coal of the Opening stock as received at station	(kcal/SCM)		536525			
	ported coal supplied as received at station	(kcal/SCM)					
armini di mandala da bahaya da bahay	average GCV of GAS as received	(kcal/SCM)	#DIV/0!	9672.82	11299.2		



		15

00	ompany			NTPC			
74	ame of the generating Station		Kawas Gas power project				
M	onth			Jun-23			
SL Pa	articulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD		
A) O	PENING QUANTITY						
10	pening Stock of Gas/Oil	(1000 5CM)/MT	0.00	0:00	3,070.5		
2 Va	alue of Stock	Rs	0.00	0.00	286,420,877.9		
8) Q	UANTITY						
3 Q	uantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	9,030.05	14,726.25	0.0		
4 A	djustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.0		
5 G	as supplied by Gas Company (3+4)	(1000 SCM)/MT	9,030.05	14,726.25	0.0		
6 N	ormative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 N	et gas supplied (5 - 6)	(1000 5CM)/MT	9,030.05	14,726.25	0.0		
C) PF	RICE	The same of	.002	200			
S A	mount charged by the Gas/Oil Company	Rs	403,475,110.65	643,736,397.73	0.0		
9 A	djustment (+ / -) in amount charged by Gas Company	Rs.	0.00	0.00	0.0		
10 H	andling Sampling and such other Similar charges	Rs	0.00	0.00	0.0		
11 To	otal Amount charged (8 +9+10)	Rs	403,475,110.65	643,736,397.73	0.0		
D) TI	RANSPORTATION	Rs					
12 7	ansportation charges by Rail / Ship / Road Transport	1000					
B	/ Rall	Rs	0.00	0.00	0.0		
5)	Road	Rs	0.00	0.00	0.0		
8	/Ship	Rs	0.00	0.00	0.0		
8)	Pipe	Rs	15,226,133.36	24,330,239.27	0.0		
13 A	djustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.0		
14 D	emurrage charges, if any	Rs	0.00	0.00	0.0		
15 C	ost of diesel in transporting Coal through MGR system, if applicable	Rs	NA	NA.	NA		
-	otal transportation charges (12+/- 13 - 14 = 15)	Rs	15,226,133.36	24,330,239.27	0.0		
-	otal amount charged for Gas/Oil supplied including transportation (11 + 15)	Rs	418,701,244.00	668,066,637.00	0.0		
18 La	inded Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	46,367,56	45,365.71	93,278.9		
19 8	ending Ratio (Domestic/Imported)		1957	NA.			
20 W	reighted average cost of Gas			NA			
F) Q	UALITY		500	-			
21 G	CV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA.	NA.		
_	CV of Gas supplied as per bill of Gas company	(kcal/SCM)	9615.60	9423.01	11299.2		
23 G	CV of imported coal of the opening coal stock as per bill of Gas company	(kcal/SCM)	6766060	200-110-0	NA.		
_	CV of Imported coal supplied as per bill of Gas company	(kcal/SCM)					
25 W	leighted average GCV of Coal /Lignite as billed	(keal/5CM)		NA.			
26 G	CV of Gas of the Opening stock as received at station	(kcal/SCM)	NA	NA.	NA:		
	CV of Gas supplied as received at station	(kcal/SCM)	9615.60	9423.01	11299.2		
_	CV of imported coal of the Opening stock as received at station	(kcal/SCM)	-915-017-0	30,502,003			
_	CV of imported coal supplied as received at station	(kcal/SCM)					
-	reighted average GCV of GAS as received	(kcal/SCM)	9615.60	9423.01	11299.2		



FORM -15

Company		NTPC				
Name of the generating Station		Kawas Gas power project				
Month			Jul-25			
SL Particulars	Unit	Committed Gas	RUNG	Liquid fuel - Naphtha/ HSD		
A) OPENING QUANTITY						
1 Opening Stock of Gas/Oil	(1000 SCM)/MT	0.00	0.00	3,070.5		
2 Value of Stock	Rs	0.00	0.00	286,420,877,9		
B) QUANTITY						
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 SCM)/MT	13,173.19	4,930.67	0.0		
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000.5CM.)/MT	0.00	0.00	0.0		
5 Gas supplied by Gas Company (3+4)	(2000 SCM)/MT	13,173.19	4,930.67	0.0		
6 Normative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 Net gas supplied (5 - 6)	(1000 SCM)/MT	13,173.19	4,930.67	0.00		
C) PRICE	26. 191	100	2.5			
8 Amount charged by the Gas/Oil Company	H.s	555,748,785.83	215,452,808.60	0.00		
9 Adjustment (+ / -) In amount charged by Gas Company	Rs	0.00	0.00	0.0		
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00	0.0		
11 Total Amount charged (8+9+10)	Rs	655,748,786.83	215,462,808.60	9.0		
D) TRANSPORTATION	Rs					
12 Transportation charges by Rall / Ship / Road Transport	207					
By Rafi	Rs	0.00	0.00	0.0		
By Road	H.s	0.00	0.00	0.0		
By Ship	Rs	0.00	0.00	0.0		
By Pipe	Rs	22,382,694.07	8,385,274.40	0.0		
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.0		
14 Demurrage charges, If any	Rs	0.00	0.00	0.0		
15 Cost of diesel in transporting Coal through MGR system, if applicable	Rs	NA.	NA	NA.		
16 Total transportation charges (12+/- 13 - 14 + 15)	Rs	22,382,694.07	8,385,274.40	0.0		
17 Total amount charged for Gas/OII supplied including transportation (11 + 16)	Rs	678,131,480,90	223,849,083.00	0.0		
18 Landed Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	51,478.16	45,399.29	93,278.9		
19 Blending Ratio (Domestic/Imported)		97	NA:			
20 Weighted average cost of Gas			NA:			
FJQUALITY						
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA	NA:	NA.		
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9557.49	9567.21	11041.5		
23 GCV of imported coal of the opening coal stock as per bill of Gas company	(kesl/SCM)			NA		
24 GCV of Imported coal supplied as per bill of Gas company	(kcal/SCM)			- 1144		
25 Weighted average GCV-of Coal /Lignite as billed	(kcal/5CM)		NA:			
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA .	NA:	NA		
27 GCV of Gas supplied as received at station	(kcal/SCM)	9557.49	9567.21	11041.5		
28 GCV of Imported coal of the Opening stock as received at station	(kcal/SCM)			354110		
29 GCV of imported coal supplied as received at station	(kcal/SCM)					
30 Weighted average GCV of GAS as received:	(kcal/SCM)	9557,49	9567.21	11041.5		



FORM -15

C	ompany			NTPC			
_	ame of the generating Station		Kawas Gas power project				
	onth			Aug-23			
SL Pa	rticulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD		
A) O	PENING QUANTITY		1				
1 0	pening Stock of Gas/Oil	(1000 5CM)/MT	0.00	0:00	2,741.8		
2 Va	lue of Stock	Rs	0.00	0.00	278,086,678.1		
8) Q	UANTITY						
3 Q	uantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	25,329.13	2,613.56	0.0		
4 Ac	ijustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.0		
5 G	as supplied by Gas Company (3+4)	(1000 SCM)/MT	25,329.13	2,613.56	0.0		
6 N	ormative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 N	st gas supplied (5 - 6)	(1000 5CM)/MT	25,329.13	2,613.56	0.0		
C) PF	RICE		.5-52				
8 Ar	mount charged by the Gas/Oil Company	Rs	1,253,521,779.23	115,161,775.18	0.0		
9 Ac	fjustment (+ / -) In amount charged by Gas Company	Rs.	0.00	0.00	0.0		
10 H	andling, Sampling and such other Similar charges	Rs	0.00	0.00	0.0		
11 To	otal Amount charged (8+9+10)	Rs.	1,253,521,779.23	115,161,776.18	0.0		
D) TE	ANSPORTATION	Rs					
12 Tr	ansportation charges by Rail / Ship / Road Transport	1930					
By	/ Rail	Rs	0.00	0.00	0.0		
By	Road	Rs	0.00	0.00	0.0		
89	Ship	Rs	0.00	0.00	0.0		
By	Pipe	Rs	43,109,841.77	4,527,318.56	0.0		
13 Ac	fjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.0		
14 De	emurrage charges, If any	RS	0.00	0.00	0.0		
15 Cc	ost of diesel in transporting Coal through MGR system, If applicable	Rs	NA	NA	NA		
-	ital transportation charges (12+/- 13 - 14 = 15)	Rs	43.109.841.77	4,527,318.56	0.0		
17 To	ital amount charged for Gas/Oil supplied including transportation (11 + 16)	Rs	1,296,631,621.00	119,689,094.74	0.0		
18 La	nded Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	51,191.32	45,795.48	101,424.1		
19 8	ending Ratio (Domestic/Imported)		1959 11.	NA.			
20 W	eighted average cost of Gas			NA			
F) Q	UALITY		5.00				
21 G	CV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA.	NA:		
	CV of Gas supplied as per bill of Gas company	(kcal/SCM)	9573.68	9743.87	11299.2		
23 G	CV of imported coal of the opening coal stock as per bill of Gas company	(kcal/5CM)		1474-11-71-91-71	NA.		
_	CV of Imported coal supplied as per bill of Gas company	(kcal/SCM)					
_	eighted average GCV of Coal /Lignite as billed	(keal/5CM)		NA.			
-	CV of Gas of the Opening stock as received at station	(kcal/SCM)	NA	NA.	NA:		
	CV of Gas supplied as received at station	(kcal/SCM)	9573.68	9743.87	11299.2		
_	CV of imported coal of the Opening stock as received at station	(kcal/SCM)	377,5197	83-3030/			
_	CV of imported coal supplied as received at station	(kcal/SCM)					
-	eighted average GCV of GAS as received	(kcal/SCM)	9573.68	9743.87	11799.7		



		15

Company Name of the generating Station	NTPC Kawas Gas power project					
Month		# 2 - 1111				
Month SL Particulars	Unit	Committed Gas	Sep-23 RLNG	Liquid fuel -	ı	
32 - 0.000013	J. J	Committee Gas	NEWS.	Naphtha/ HSD		
A) OPENING QUANTITY				-		
1 Opening Stock of Gas/Oil	(1000 5CM)/MT	0.00	0:00	2,983.11	1	
2 Value of Stock	Rs	0.00	0.00	278,086,578.10	-	
QUANTITY						
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	10,668.74	8,108.59	0.00	18	
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.00		
5 Gas supplied by Gas Company (3+4)	(1000 SCM)/MT	10,568,74	8,108.59	0.00		
6 Normative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA		
7 Net gas supplied (5 - 6)	(1000 5CM)/MT	10,668.74	8,108.59	0.00		
C) PRICE						
8 Amount charged by the Gas/Oil Company	Rs	549,809,857.97	367,865,589.54	0.00		
9 Adjustment (+ / -) in amount charged by Gas Company	R5	0.00	0.00	0.00		
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00	0.00		
11 Total Amount charged (8 +9+10)	Rs.	549,809,857.97	367,865,589.54	0.00		
D) TRANSPORTATION	RS					
12 Transportation charges by Rall / Ship / Road Transport	1950					
By Rail	Rs	0.00	0.00	0.00		
By Road	Rs	0.00	0.00	0.00		
By Ship	Rs	0.00	0.00	0.00		
By Pipe	Rs	18,254,435.57	13,982,592.47	0.00		
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.00		
14 Demurrage charges, If any	Rs	0.00	0.00	0.00		
15 Cost of diesel in transporting Coal through MGR system, if applicable	Rs	NA	NA	NA		
16 Total transportation charges (12+/- 13 - 14 - 15)	Rs	18,254,435.57	13,982,592.47	0.00		
17 Total amount charged for Gas/Oil supplied including transportation (11 + 16)	Rs	568,064,293.54	381,848,182.01	0.00		
18 Landed Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	53,245.70	47.091.84	93,220,51	į.	
19 Blending Ratio (Domestic/Imported)	I I I I I I I I I I I I I I I I I I I	33,243.70	NA.	33,220,32		
20 Weighted average cost of Gas			NA.			
F) QUALITY			100		i .	
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA.	NA.	NA:	1	
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9682.20	9699.85	9013.39		
23 GCV of imported coal of the opening coal stock as per bill of Gas company	(kcal/SCM)	2004.40	2022.03	NA.	ĺ	
24 GCV of Imported coal supplied as per bill of Gas company	(kcal/SCM)			788	f	
25 Weighted average GCV of Coal /Lignite as billed	(kcal/SCM)		NA.			
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA NA	NA:	NA:	1	
4 Alicente 1 1 1 1 1 1 1 1 1	100000000000000000000000000000000000000	NA 9682 20	1000	0.71.11		
27 GCV of Gas supplied as received at station	(kcal/5CM) (kcal/5CM)	3087.50	9699.85	9013.39	1	
28 GCV of imported coal of the Opening stock as received at station	Accessed to the		-	-	1	
29 GCV of imported coal supplied as received at station	(kcal/SCM)	4200000	2000	V231222377	1	
30 Weighted average GCV of GAS as received	(kcal/SCM)	9682.20	9699,85	9013.39		



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Company			NTPC		
Name of the generating Station		Kaw	as Gas power project		
Month			Oct-23	i	
Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD	
OPENING QUANTITY			-		
Opening Stock of Gas/Oil	(1000 5CM)/MT	0.90	0:00	2,979.74	
Value of Stock	F.s.	0.00	0,00	277,676,559.80	
QUANTITY					
Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	10,939.76	14,400.65	0.00	25,340.4
Adjustment (+/-) in quantity supplied made by Gas Company	(1000 5CM)/MT	0.00	0.00	0.00	
Gas supplied by Gas Company (3+4)	(1000 SCM)/MT	10,939.76	14,400.65	0.00	
Normative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA:	
Net gas supplied (5 - 6)	(1000 5CM)/MT	10,939.76	14,400.65	0.00	
PRICE	72. 552	1007	3.5		
Amount charged by the Gas/Oil Company	Rs	530,409,994.19	701,318,496.28	0.00	
Adjustment (+ / -) In amount charged by Gas Company	RS	0.00	0.00	0.00	
Handling, Sampling and such other Similar charges	Rs	0.00	0.00	0.00	
Total Amount charged (8+9+10)	Rs	530,409,994.19	701,318,496.28	0.00	
TRANSPORTATION	Rs				
Transportation charges by Rail / Ship / Road Transport	11.5				
By Rail	Rs	0.00	0,00	0.00	
By Road	Rs	0.00	0.00	0.00	
By Shtp	RI	0.00	0.00	0.00	
By Pipe	#is	92634	(V-East	0.00	
Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.00	
Demurrage charges, if any	Rs	0.00	0.00	0.00	
Cost of diesel in transporting Coal through MGR system, if applicable	RS	NA	NA	NA	
Total transportation charges (12+/- 13 - 14 = 15)	Rs	0.00	0.00	0.00	
Total amount charged for Gas/Oil supplied including transportation (11 + 16) TOTAL COST	Rs	530,409,994.19	701,318,495.28	0.00	1,231,728,490.4
Landed Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	48,484.61	48,700.46	93,188.05	
Blending Ratio (Domestic/Imported)			NA.		
Weighted average cost of Gas			NA		
QUALITY					
GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA.	NA.	NA:	
GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9528.44	9710.48	9013.39	
GCV of Imported coal of the opening coal stock as per bill of Gas company	(kcal/SCM)	connector	Sen. (171) 350	NA	
GCV of Imported coal supplied as per bill of Gas company	(kcal/SCM)				
Weighted average GCV of Coal /Lignite as billed	(kcsl/5CM)		NA .		
GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA.	NA	NA:	
GCV of Gas supplied as received at station	(kcal/5CM)	9528.44	9710.48	9013.39	
GCV of imported coal of the Opening stock as received at station	(kcal/SCM)	355577	51.50	37225	
GCV of Imported coal supplied as received at station	(kcsl/5CM)				
Weighted average GCV of GAS as received	(kcal/SCM)	9528.44	9710.48	9013.39	



FC		

3,966.95

Company			NTPC	
Name of the generating Station		Kawa	s Gas power project	
Month			31-11-2023	
SL Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD
A) OPENING QUANTITY			-	
1 Opening Stock of Gas/Oil	(1000 5CM)/MT	0.00	0.00	2,979.7
2 Value of Stock	Rs	0.00	0.00	277,676,559.8
B) QUANTITY				
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	3,966.95	0.00	0.0
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.0
5 Gas supplied by Gas Company (3+4)	{1000 SCM }/MT	3,966.95	0.00	0.0
6 Normative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA
7 Net gas supplied (5 - 5)	(1000 5CM)/MT	3,966.95	0.00	0.0
C) PRICE	100	1997		
8 Amount charged by the Gas/Oil Company	Rs	329,182,867.69	0.00	0.00
9 Adjustment (+ / -) In amount charged by Gas Company	ÆS	0.00	0.00	0.0
10 Handling, Sampling and such other Similar charges	Rs	0.00	0.00	0.0
11 Total Amount charged (8+9+10)	Rs	329,182,867.69	0.00	0.0
D) TRANSPORTATION	Rs.			
12 Transportation charges by Rail / Ship / Road Transport	7950			
By Rail	Rs	0.00	0.00	0.0
By Road	Rs	0.00	0.00	0.0
By Ship	FIS	0.00	0.00	0.0
By Pipe	Rs	0.00	0.00	0.0
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.0
14 Demurrage charges, if any	Rs.	0.00	0.00	0.0
15 Cost of diesel in transporting Coal through MGR system, If applicable	Rs	NA.	NA	NA
16 Total transportation charges (12+/- 13 - 14 = 15)	Rs	0.00	0.00	0.0
17 Total amount charged for Gas/Oil supplied including transportation (11 + 15)	Rs	329.182.867.69	0.00	0.0
E) TOTAL COST	:-070	0.00470747555550	11,545.5	
18 Landed Cost of Gas { 2+17} / (1+7)	Rs/1000 SCM/MT	82,981.28	0.00	93,188.0
19 Blending Ratio (Domestic/Imported)		0517 03	NA:	200
20 Weighted average cost of Gas			NA	
F) QUALITY		100	90	
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA.	NA
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9499.31	0.00	9013.3
23 GCV of imported coal of the opening coal stock as per bill of Gas company	(kcal/5CM)			NA.
24 GCV of Imported coal supplied as per bill of Gas company	(kcal/SCM)			
25 Weighted average GCV of Coal /Lignite as billed	(kcai/5CM)		NA:	
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA	N,A	NA:
27 GCV of Gas supplied as received at station	(kcai/SCM)	9499,31	0.00	9013.3
28 GCV of imported coal of the Opening stock as received at station	(kcal/SCIM)		1 -00001	
29 GCV of imported coal supplied as received at station	(kcal/SCM)			
30 Weighted average GCV of GAS as received	(kcal/SCM)	9499.31	0.00	9013.3

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FORM -15

Company		NTPC			
Name of the generating Station		Kawa	s Gas power project	t	
Month			Dec-23		
SL Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD	
A) OPENING QUANTITY					
1 Opening Stock of Gas/Oil	{1000 5CM }/MT	0.00	0.00	2,979.74	
2 Value of Stock	Rs	0.00	0.00	277,676,559.8	
B) QUANTITY					
3 Quantity of gas/ALNG/Liquid fuel supplied by gas company	(1000 SCM)/MT	7,217.40	0.00	0.0	
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.0	
5 Gas supplied by Gas Company (3+4)	(2000 SCM)/MT	7,217.40	0.00	0.0	
6 Normative transit & Handling losses	(1000 SCM)/MT	NA.	NA.	NA	
7 Net gas supplied (5 - 6)	{1000 5CM }/MT	7,217.40	0.00	0.0	
c) PRICE	00 000	5			
8 Amount charged by the Gas/Oil Company	Rs	434,957,002.74	0.00	0.0	
9 Adjustment (+ / -) In amount charged by Gas Company	Rs	0.00	0.00	0.0	
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00	0.0	
11 Total Amount charged (8 +9+10)	Rs	434,957,002.74	0.00	0.0	
D) TRANSPORTATION	Rs				
12 Transportation charges by Rail / Ship / Road Transport	1688				
By Rall	Rs	0.00	0.00	0.0	
By Road	Rs	0.00	0.00	ō.D	
By Ship.	Rs	0.00	0.00	0.0	
By Pipe	Rs	0.00	0.00	0.0	
13 Adjustment (+/-) In amount charged by railways / transport compan	V Rs	0.00	0.00	0.0	
14 Demurrage charges, If any	Rs	0.00	0.00	0.0	
15 Cost of diesel in transporting Coal through MGR system, if applicable	Rs	NA.	NA.	NA	
16 Total transportation charges (12+/- 13 - 14 + 15)	Rs	0.00	0.00	0.0	
17 Total amount charged for Gas/Oil supplied including transportation	(11 + 16) Rs	434,957,002,74	0.00	0.0	
E) TOTAL COST	ALTOSOFIUM SIGN	45:40:51.605-100:3			
18 Landed Cost of Gas (2+17) / (1+7)	Rs/1000 5CM/MT	60,265.05	0.00	93,188.0	
19 Blending Ratio (Domestic/Imported)		0 11.	NA		
20 Weighted average cost of Gas			NA		
F) QUALITY					
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/5CM)	NA.	NA NA	NA:	
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9641.20	0.00	9013.3	
23 GCV of Imported coal of the opening coal stock as per bill of Gas cor	npany (kcal/SCM)			NA	
24 GCV of imported coal supplied as per bill of Gas company	(kcal/SCM)				
25 Weighted average GCV of Coal /Lignite as billed	(kcal/5CM)		NA		
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA.	NA NA	NA:	
27 GCV of Gas supplied as received at station	(krai/SCM)	9641.20	0.00	9013.3	
28 GCV of imported coal of the Opening stock as received at station	(kcal/5CM)				
29 GCV of imported coal supplied as received at station	(kcal/SCM)				
30 Weighted average GCV of GAS as received	(kcsl/SCM)	9641.20	0.00	9013,3	



Details of	Sourcewise	fuel for	computation	of Energy	Charges

Company			NTPC		
Name of the generating Station		Kawa	as Gas power project		
Month		E75.75.1	Jan-24		
SL Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD	
A) OPENING QUANTITY				-	
1 Opening Stock of Gas/Oil	(1000 5CM)/MT	0.00	0.00	2,954.11	
2 Value of Stock	Rs	0.00	0.00	276,078,807.46	
B) QUANTITY					
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 5CM)/MT	13,659.84	3,707.86	0.00	17,
4 Adjustment (+/-) in quantity supplied made by Gas Company	(1000 SCM)/MT	0.00	0.00	0.00	
5 Gas supplied by Gas Company (3+4)	(1000 SCM)/MT	13,659.84	3,707.86	0.00	
6 Normative transit & Handling losses	(1000 5CM)/MT	NA	NA	NA	
7 Net gas supplied (5 - 6)	(1000 5CM)/MT	13,659.84	3,707.86	0.00	
C) PRICE	100	.92	20		
8 Amount charged by the Gas/Oll Company	Rs	693,527,666,76	181,719,800.90	0.00	
9 Adjustment (+ / -) in amount charged by Gas Company	RS.	0.00	0.00	0.00	
10 Handling Sampling and such other Similar charges	Rs	0.00	0.00	0.00	
11 Total Amount charged (8+9+10)	Rs	693,527,666,76	181,719,800,90	0.00	
TRANSPORTATION	Rs	A DECEMBER OF A SECURITY OF A	- Interest of the section of the sec	4545454	ľ
24 12 Transportation charges by Rail / Ship / Road Transport	VAR				
By Rail	Rs	0.00	0.00	0.00	
By Road	Rs	0.00	0.00	0.00	
ByShip	Rs	0.00	0.00	0.00	t:
By Pipe	Rs Rs	0.00	9.00	0.00	
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.00	
14 Demurrage charges, if any	Rs Rs	0.00	0.00	0.00	
LS Cost of diesel in transporting Coal through MGR system, If applicable	Rs	NA	NA C.GG	NA	
16 Total transportation charges (12+/- 13 - 14 = 15)	Rs	0.00	0.00	0.00	l .
 	225		Service and a service of the service		
17 Total amount charged for Gas/Oil supplied including transportation (11 + 16) E) TOTAL COST	Rs	693,527,666.76	181,719,800.90	0.00	
18 Landed Cost of Gas { 2+17} / (1+7)	Rs/1000 SCM/MT	50,771.30	49,009.41	93,140.59	
19 Blending Ratio (Domestic/Imported)		000	NA:	(0)	Ī
20 Weighted average cost of Gas			NA.		
F) QUALITY		5.01	U		
GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA:	NA.	NA.	
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9605.69	9607,08	9013.39	
23 GCV of Imported coal of the opening coal stock as per bill of Gas company	(kcal/5CM)			NA.	
4 GCV of Imported coal supplied as per bill of Gas company	(kcal/5CM)			7-	
25 Weighted average GCV of Coal /Lignite as billed	(kcal/5CM)		NA:		
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA	NA.	NA:	
27 GCV of Gas supplied as received at station	(kcai/SCM)	9605.69	9607.08	9013.39	
28 GCV of imported coal of the Opening stock as received at station	(kcal/SCM)		5-30/197	100,000	1
29 GCV of imported coal supplied as received at station	(kcal/SCM)			-	
30 Weighted average GCV of GAS as received	(kcal/SCM)	9605.69	9607.08	9013.39	



Company			NTPC	
Name of the generating Station		Kaw	as Gas power project	0
Month		3,1-5,1	Feb-24	
SL Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD
A) OPENING QUANTITY				
1 Opening Stock of Gas/Oil	{1000 SCM }/MT	0.00	0.00	2,960,6
2 Value of Stock	As	0.00	0.00	275,523,111.0
B) QUANTITY	**************************************	5715-50-10	-20-20 a s-20	
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	{1000 SCM }/MT	5,463,99	2,844.79	0.0
4 Adjustment (+/-) in quantity supplied made by Gas Company	{1000 5CM }/MT	0.00	0.00	0.0
5 Gas supplied by Gas Company (3+4)	{1000 5CM }/MT	5,463.99	2,844.79	0.0
5 Normative transit & Handling losses	(1000 SCM)/MT	NA	NA.	NA.
7 Net gas supplied (5 - 6)	(1000 SCM)/MT	5,463.99	2,844.79	0.0
C) PRICE				
8 Amount charged by the Gas/Oil Company	RS	218,234,847.00	132,387,855.00	0.0
9 Adjustment (+ / -) In amount charged by Gas Company	Rs	0.00	0.00	0.0
10 Handling, Sampling and such other Similar charges	Rs	0.00	0.00	0.0
11 Total Amount charged (8 +9+10)	Rs	218,234,847.00	132,387,855.00	G.0
D) TRANSPORTATION	Rs	37.27.39.7.39.3000.50.3.14	18150472557415-5-1701	
12 Transportation charges by Rall / Ship / Road Transport	1024			
By Rail	Rs	0.00	0.00	0.0
By Road	Rs.	0.00	0.00	0.0
By Ship	RS.	0.00	0.00	0.0
By Pipe	Rs	0.00	0.00	0.0
13 Adjustment (+/-) In amount charged by railways / transport company	Rs	.00.00	0.00	0.0
IA Demurrage charges, If any	Rs	0.00	0.00	0.0
15 Cost of diesel in transporting Coal through MGR system, if applicable	Rs	NA	NA.	NA
15 Total transportation charges (12+/- 13 - 14 + 15)	Rs	0.00	0.00	0.0
17 Total amount charged for Gas/Oil supplied including transportation (11+16)	Rs	218,234,847.00	132,387,855.00	0.0
EI TOTAL COST		111111111111111111111111111111111111111		
18 Landed Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	39,940.59	46,536.90	93,060.9
19 Blending Ratio (Domestic/Imported)			NA.	33454444
20 Weighted average cost of Gas		NA:		
F) QUALITY				
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA.	NA	NA.
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9522.67	9515.12	9013.3
23 GCV of Imported coal of the opening coal stock as per bill of Gas company	(kcal/SCM)		330000	NA.
24 GCV of imported coal supplied as per bill of Gas company	(kcal/SCM)			
25 Weighted average GCV of Coal /Lignite as billed	(kcal/SCM)		NA.	
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA.	NA.	NA.
27 GCV of Gas supplied as received at station	(kcal/SCM)	9522:67	9515.12	9013.3
28 GCV of imported coal of the Opening stock as received at station	(kcal/SCM)			
29 GCV of Imported coal supplied as received at station	(kcal/5CM)			
30 Weighted average GCV of GA5 as received	(kcal/SCM)	9522.67	9515.12	9013.3

Company Company			NTPC	- Contract C
Name of the generating Station		Kawa	s Gas power project	D.
Month		11-111	Mar-24	
SL Particulars	Unit	Committed Gas	RLNG	Liquid fuel - Naphtha/ HSD
A) OPENING QUANTITY				
1 Opening Stock of Gas/Oil	(1000 5CM)/MT	5.00	0.00	2,947.27
2 Value of Stock	RS	0.00	0.00	274,526,303.26
B) QUANTITY	-0.000 AND STATES - 12		1-0-10-10-10-10-10-10-10-10-10-10-10-10-	
3 Quantity of gas/RLNG/Liquid fuel supplied by gas company	(1000 SCM J/MT	0.00	1,424.75	0.00
4 Adjustment (+/-) in quantity supplied made by Gas Company	{1000 5CM }/MT	0.00	0.00	0.00
5 Gas supplied by Gas Company (3+4)	{1000 5CM }/MT	0.00	1,424.75	0.00
5 Normative transit & Handling losses	(1000 SCM)/MT	NA.	NA	NA
7 Net gas supplied (5 - 6)	{1000 SCM }/MT	0.00	1,424.75	0.00
C) PRICE				
8 Amount charged by the Gas/Oil Company	RS	0.00	67,433,925.00	0.00
9 Adjustment (+/-) in amount charged by Gas Company	Rs	0.00	0.00	0.00
10 Handling, Sampling and such other Similar charges	Rs	0.00	0.00	0.00
11 Total Amount charged (8 +9+10)	Rs	0.00	67,433,926.00	0.00
D) TRANSPORTATION	Rs	4.177.17		
12 Transportation charges by Rall / Ship / Road Transport	inse tees			
By Rail	Rs	0.00	0.00	0.00
By Road	Rs	0.00	0,00	0,00
By Ship	Rs	0.00	0.00	0.00
By Pipe	Rs	0.00	0.00	0.00
13 Adjustment (+/-) in amount charged by railways / transport company	Rs	0.00	0.00	0.00
1A Demurrage charges, if any	Rs	0,00	0.00	0.00
15 Cost of diesel in transporting Coal through MGR system, if applicable	RS .	NA	NA	NA
16 Total transportation charges (12+/- 13 - 14 + 15)	Rs	0.00	0.00	0.00
17 Total amount charged for Gas/Oil supplied including transportation (11+16)	Rs	0.00	67,433,926.00	0.00
E) TOTAL COST				
18 Landed Cost of Gas (2+17) / (1+7)	Rs/1000 SCM/MT	0.00	47,330.36	93,145.97
19 Blending Ratio (Domestic/Imported)			NA:	
20 Weighted average cost of Gas			NA:	
F) QUALITY				
21 GCV of Gas of the opening coal stock as per bill of Gas company	(kcal/SCM)	NA.	NA	NA.
22 GCV of Gas supplied as per bill of Gas company	(kcal/SCM)	9522.57	9502.23	9013.39
23 GCV of Imported coal of the opening coal stock as per bill of Gas company	(kcsl/SCM)		200000	NA
24 GCV of imported coal supplied as per bill of Gas company	(kcsl/SCM)			
25 Weighted average GCV of Coal /Lignite as billed	(kcal/SCM)		NA.	
26 GCV of Gas of the Opening stock as received at station	(kcal/SCM)	NA.	NA	NA.
27 GCV of Gas supplied as received at station	(kcsl/SCM)	9522.67	9502.23	9013.35
28 GCV of Imported coal of the Opening stock as received at station	(kcsl/SCM)			
29 GCV of Imported coal supplied as received at station	(kcal/SCM)			
30 Weighted average GCV of GA5 as received	(kcal/SCM)	9522.67	9502.23	9013.39

Form-I

Particulars 1 Name of the Potitioner/Applicant	NTDOLLAR
Name of the Petitioner/Applicant	NTPC Limited
2. Address of the Petitioner/Applicant	SCOPE Complex, Core -7, Institutional Area, Lodhi Road, New Delhi – 110 003
3. Subject Matter	Payment of Annual Tariff Filing feet for NTPC Stations for FY 2024-25 at per CERC (Payment of Fees) (Third Amendment) Regulations, 2022
4. Petition No., if any	As per Enclosed Sheet (Annexure A)
5. Details of generation assets	
a) Generating station/units b) Capacity in MW c) Date of commercial operation d) Period for which fee paid e) Amount of fee paid f) Surcharge, if any	As per Enclosed Sheet (Annexure A)
6. Details of transmission assets	N.A.
a) Transmission line and substations b) Date of commercial operation c) Period for which fee paid d) Amount of fee paid e) Surcharge, if any	
7. Fee paid for Adoption of tariff for	N.A.
a) Generation asset b) Transmission asset	
3. Application fee for licence	
a) Trading licence	
b) Transmission licence	N.A
c) Period for which paidd) Amount of fee paid	
. Fees paid for Miscellaneous application	N.A.
0. Fees paid for Interlocutory pplication 131	N.A.

11. Fee paid for Regulatory Compliance petition	N.A.
12. Fee paid for Review Application	N.A.
13. License fee for inter-State Trading	
a) Category b) Period c) Amount of fee paid d) Surcharge, if any	N.A
14. License fee for inter-State Transmission	N.A.
a) Expected/Actual transmission charge b) Period c) Amount of fee calculated as a percentage of transmission charge. d) Surcharge, if any	
15. Annual Registration Charge for Power Exchange a) Period b) Amount of turnover c) Fee paid d) Surcharge, if any	N.A.
16. Details of fee remitted	
a) Transaction id/ Reference No./ Payment id	37c568eba62158b7b321
b) Date of remittance	24.04.2024
c) Amount remitted	Rs. 256553700.00/-
Note: While SI. Nos. 1 to 3 and 16 are one applicable	compulsory, the rest may be filled up
Signature of the authorized signatory w	
132	Dt. 27.04.2024 SHARMA STATE HART CONTROLLINGS TO WAR SHOW A SHOW A SHARMA TO WAR SHARMA TO W

S.No	Region	Station Name	Capacity as on 01.04.2024 (in MW)	Filling fees for 2024-25 (in Rs.) Rounded off t nearest hundred as per CERC Regulation
1	NR	Feroze Gandhi Unchahar Thermal Power Station-I	420	18,48,00
2	NR	Feroze Gandhi Unchahar Thermal Power Station-II	420	18,48,00
3	NR	Feroze Gandhi Unchahar Thermal Power Station-III	210	9,24,00
4	NR	Feroze Gandhi Unchahar Thermal Power Station-IV	500	22,00,00
5	NR	National capital Power Project Dadri Stage-I	840	36,96,00
6	NR	National capital Power Project Dadri Stage-II	980	43,12,000
7	NR	Tanda Thermal Power Station	440	19,36,000
8	NR	Tanda Super Thermal Power Station Stage-II	1320	58,08,000
9	NR	Singrauli Super thermal Power Station	2000	88,00,000
10	NR	Rihand Super Thermal Power Station-I	1000	44,00,000
11	NR	Rihand Super Thermal Power Station-II	1000	44,00,000
12	NR	Rihand Super Thermal Power Station-III	1000	44,00,000
13	NR	Dadri Gas Power Station	829.78	36,51,000
14	NR	Anta Gas Power Station	419.33	18,45,100
15	NR	Auralya Gas Power Station	663.36	29,18,800
16	NR	Faridabad Gas Power Station	431.586	18,99,000
17	ER	Farakka Super Thermal Power Station, Stage-I&II	1600	70,40,000
18	ER	Farakka Super Thermal Power Station, Stage-III	500	22,00,000
19	ER	Kahalgaon Super Thermal Power Station Stage-I	840	36,96,000
20	ER	Kahalgaon Super Thermal Power Station Stage-II	1500	66,00,000
21	ER	Bongaigaon TPS	750	33,00,000
22	ER	Barh Super Tharmal Power Station-I	1320	58,08,000
23	ER	Barh Super Tharmal Power Station-II	1320	58,08,000
24	ER	Barauni TPS Stage-II	500	22,00,000
25	ER	Talcher Super Thermal Power Station Stage-I	1000	44,00,000
26	ER	Darlipalii Super Thermal Power Station-I	1600	70,40,000
27	ER	North Karanpura Super Thermal Power Station	1320	58,08,000
28	ER	Nabinagar Super Thermal Power Station	1980	87,12,000
29	ER	Muzaffarpur Thermal Power Station Stage-II	390	17,16,000
30	WR	Korba Super Thermal Power Station, Stage-I&II	2100	92,40,000
31	WR	Korba Super Thermal Power Station, Stage-III	500	22,00,000
32	WR	Jhanor Gandhar Gas Power Project	657.39	28,92,500
33	WR	Kawas Gas Power Project	656.2	28,87,300
34	WR	Sipat Super Thermal Power Project Stage-I	1980	87,12,000

CERC Filing Fees For FY 2024-25 For NTPC Stations

Annexure -

S.No		Station Name	Capacity as on 01.04.2024 (in MW)	Filling fees for 2024-25 (in Rs.) Rounded off nearest hundred as per CERC Regulation
35	WR	Sipat Super Thermal Power Project Stage-II	1000	44,00,00
36	WR	Vindhyachal Super Thermal Power Station-I	1260	55,44,00
37	WR	Vindhyachal Super Thermal Power Station-II	1000	44,00,00
38	WR	Vindhyanchal Super Thermal Power Station-III	1000	44,00,00
39	WR	Vindhyanchal Super Thermal Power Station-IV	1000	44,00,00
40	WR	Vindhyanchal Super Thermal Power Station-V	500	22,00,00
41	WR	Mouda Super Thermal Power Station I	1000	44,00,00
42	WR	Mouda Super Thermal Power Station II	1320	58,08,00
43	WR	Solapur Super Thermal Power Station	1320	58,08,000
44	WR	Gadarwara Super Thermal Power Station	1600	70,40,000
45	WR	Lara Super Thermal Power Station	1600	70,40,000
46	WR	Khargone Super Thermal Power Project	1320	58,08,000
47	SR	Talcher Super Thermal Power Station Stage-II	2000	88,00,000
48	SR	Ramagundam STPS Stage-I&II	2100	92,40,000
49	SR	Ramagundam STPSStage- III	500	22,00,000
50	SR	Simadhri Thermal Power Station, Stage-I	1000	44,00,000
51	SR	Simadhri Thermal Power Station Stage-II	1000	44,00,000
52	SR	Kudgi Super Thermal Power station	2400	1,05,60,000
53	SR	Telangana Super Thermal Power Station	1600	70,40,000
54	HYDRO	Koldam Hydro	800	35,20,000
	10.1	TOTAL	58307.646	25,65,53,700

आनंद सागर पाण्डेय/ANAND SAGAR PANDEY महाप्रयंद्यक (वाणिप्रियक) General Manager (Commercial) एन दी पी सी लिमिटेड/NTPC LIMITED

134

Fee Acknowledgement

Counterfoil (Office Copy)

Transaction Id.: 37c568eba62158b7b321

Payment

19716455492

Gateway ID:

Status: success

Received From: NTPC Limited

The Sum of Rs.: 256553700

Fee Type: Annual Fees for Determination of Dated: Apr 24, 2024, 2:56 PM

Tariff Generating Station(GT)

Fee Mode: NB

Fee Period: 2024-25

Petitioner/ Organisation

Name:

NTPC Limited

NARMADA WATER RESOURCES WATER SUPPLY AND KALPSAR DEPARTMENT

નર્મદા જળસંપત્તિ પાણી પુરવઠા અને કલ્પસર વિભાગ

Office of the Executive Enginner, K.R.B.C.

Division, Surat

Near Lourdes Convent bus stop Athwalines Surat-395001

Tel. (0261)- 2669048 Fax- (0261)-2667494

E-mail: krbcdn@gmail.com

કાર્યપાલક ઇજનેરશ્રીની કચેરી, કા.જ.કાં. નહેર વિભાગ, સરત લુકર્સ કોન્વેંટ સ્કુલ બસ સ્ટોપની બાજુમાં અઠવાલાઇન્સ, 212d-364009

ટેલીફોન નંબર- (૦૨૬૧)- ૨૬૬૯૦૪૮ ઇ-મેઇલ: krbcdn@gmail.com

જા.નં. કાજકાનવિ/પીબી-૪/ડબલ્યુટીઆર/કરારનામું રીન્યુ/એનટીપીસી/વશી

6 NOV 2020

પ્રતિ. અધિક્ષક ઇજનેરશ્ર્ સુરત સિયાઇ વર્તુળ, સરત

વિષય:- કરારનામુ રીન્યુ કરવા બાબત

મે. નેશનલ થર્મલ પાવર કોર્પોરેશન વિ., મોજે: કવાસ, તા.: યોર્યાસી, જી. સુરત

(૧) સરકારશ્રીનો પત્ર ક્રમાંક: ડબલ્યુટીઆર/૧૦૯૦/૮/પાર્ટ-૨/પી, તા. ૨૯-૦૯-૨૦૨૦ સંદર્ભ:-

ઉપરોક્ત વિષય પરત્વે સવિનય સાદર જણાવવાનું કે નેશનલ થર્મલ પાવર કોર્પેરિશન લિ., મોજે: કવાસ, તા.: ચોર્યાસી, જી. સુરતને સરકારશ્રીના સંદર્ભિત ઠરાવ ક્રમાંકથી બિનખેતી વિષયક હેતુ માટે પાણી ઉપાડવાની આપેલ મંજૂરીમાં સિંગણપોર વિયર ઉપરથી દૈનિક ૩૦૨૭૬ ધનમીટર પાણી ઔધ્યોગિક હેતુ માટે તથા દૈનિક ૨૧૦.૫૭ ધ.મી. પાણી પીવાના હેતુ માટે ઉપાડવાની પરવાનગી આપવામાં આવેલ જે સાથે કરવાના થતા ડરારનામાના મુસદ્દાને પણ મંજુરી આપેલ છે. જે અન્વયે કંપની દ્વારા કરેલ કરારનામાની બે નકલ તથા "કરવામાં આવેલ કરારનામુ સરકારશ્રી દ્વારા મંજુર કરવામાં આવેલ મુસદ્દા અનુસાર છે અને તેમાં કોઇ ફેરફાર કરવામાં આવેલ નથી" તે મતલબનું પ્રમાણપત્ર સાથે વર્તુળ કચેરીના રેકર્ડ અર્થે તેમજ સરકારશ્રીમાં સાદર થવા અર્થે અત્રેથી સાદર કરવામાં આવે છે.

બિડાણ: (૧) કરારનામાની નકલ (બે)

(૨) પ્રમાણપત્ર

કા.જ.કાં.નહેર વિભાગ,

નકલ રવાના પ્રતિ, ડિરેક્ટરશ્રી, નેશનલ થર્મલ પાવર કોર્પોરેશન લિ., કવાસ ગેસ પાવર પ્રોજેક્ટ, આદિત્ય નગર, જી .સુરત - ૩૯૪૫૧૬ તરફ જાણ તેમજ જરુરી કાર્યવાહી સારુ.

બિડાણ: કરારનામાની નકલ

નકલ રવાના પ્રતિ, નાયબ કાર્યપાલક ઇજનેરશ્રી, રદિર સિંચાઇ પેટા વિભાગ, રદિર તરફ જાણ સારું તેમજ જરુરી કાર્યવાહી સારુ.

બિડાણ: કરારનામાની નકવ





INDIA NON JUDICIAL Government of Gujarat Certificate of Stamp Duty

Certificate No.

IN-GJ56961911783807S

Certificate Issued Date

21-Oct-2020 12:00 PM

Account Reference

IMPACC (SV)/ gj13206404/ NANPURA/ GJ-SU

Unique Doc. Reference

SUBIN-GJGJ1320640451646712548193S

Purchased by

KRBC DIVISION SURAT

Description of Document

Article 5(h) Agreement (not otherwise provided for)

Description

WATER AGREEMENT

Consideration Price (Rs.)

(Zero)

First Party

KRBC DIVISION SURAT

Second Party

NTPC

Stamp Duty Paid By

KRBC DIVISION SURAT

Stamp Duty Amount(Rs.)

300

(Three Hundred only)





0004805405

Statutory Alert:

- † The authenticity of this Stamp certificate should be vention at lower should be uniformatically described by discrepancy in the details on this Cartificate and as available of the website / Mobile App renders it invalid.
- The onus of checking the legitimizing is on the users of the certificals.
 In case of any distribution of the connected Authority.

AGREEMENT

Agreement for supply of water to National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat for drawal of 30.27 MLD 30276 Cubic meter water per day (6.66 MGD) i.e. (1,10,50,740 cubic meter per year) water from Singanpore Weir for Industrial purpose.

This agreement made on this day of O4 - 11 - 2020 between National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat through its Authorized Representative (hereinafter in this agreement called the "Licensee" Which expression shall, unless context otherwise requires and admits, be deemed to include its administrators, executors, successors and assigns) having its registered office at "Kawas Gas Power Project, PO: Aditya Nagar, Dist.: Surat-394516" of the one part and the Governor of the State of Gujarat through Executive Engineer, Kakarapar Right Bank Canal Division, Surat in office (herein after called Government" which expression shall, unless context otherwise requires . and admits, be deemed to include his successors in office and assigns) of the other part.

WHERE AS the Licencee has applied to the Government for permission to draw water from Singanpore Weir of Ukai-Kakarapar Command for National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat

DELLE CO.

K. R B. C. Division Surat.

मिस्टरन बसु / BISWARUP BASU
बुध्य महाप्रवेदमा (करान एवं एनाएक्सी-न हो.-1)
Chief General Manger (Kawara & BSC-MR-1)
व्यक्ति विभिन्न / अगान Limited
eard कि पान प्रेमिक / अगान Research Cus Powd 380ject
eard कि पान प्रेमिक (मृत्य) P.O. Lettyanique, Burnt

онафе! МТРО AND WHEREAS the Government has, under its sanction letter No. WTR/1090/8/Part-2/P, dated 29-09-2020, agreed to grant such permission on the terms and conditions here-in-after appearing and as mentioned in the Government of Gujarat; Narmada, Water Resources, Water Supply & Kalpsar Department Resolution No.WTR/2005/41/P, dated 03/02/2007,

NOW THIS INDENTURE WITNESS and the parties here to hereby agree as follows:

- (1) The Government hereby grants the permission to the Licencee to draw water from Singanpore Weir on the terms and conditions hereafter appearing. The licensee shall construct and maintain the head works for drawing water from Singanpore Weir and other required structures at suitable places as approved by the Government or its authorised officer at their risk & cost and shall provide all ancillary arrangements that may be required in connection with the drawing and conveying the water required for the use of Licensee. The intake structures shall be open to inspection by the Government and the Government shall exercise necessary control.
- (2) The licensee shall install and maintain at its own cost, the pipeline and other requirements required for conveying water from the source of supply to the place of actual use. The expenditure towards the drawal of water i.e. installation of pumps, pipelines, meters and all other requirements in connection with the drawal of water, shall be borne by the Licensee.
- (3) The licensee shall draw water directly from Singanpore Weir to the extent of 30276 Cubic meters



विश्वरूप बर्जु / BISWARUP BASU इस्स प्राथमध्य (क्याम एवं प्रार्थमी-चार्गे,-1) ेच्या General Mapper (Kawas & Suc. WR-1) प्राथमी क्रिकेट / MTF3 Limited अंदर के प्राथम प्राथम विश्वरूप Profes SOMET PRO

Executive Engineer
K. R. B. C. Division
Surat.

per day throughout the year for Industrial use as may be required for the optimum plant capacity under operation from time to time. It would be permissible for the Licencee to increase the intake up to 30276 Cubic meters per day for a period not exceeding one month with the approval of the Narmada, Water Resources, Water Supply & Kalpsar Department, to facilitate the filling of the Licencee reservoir before closure of the canal.

- (4) (1) The licencee agrees to bear the cost herein below detailed that may be apportioned between the beneficiaries on prorata basis of their demands, on account of remodeling that may take place to meet the total requirements of the beneficiaries in case. Supply of water to him is from Singanpore Weir. The cost of remodeling shall include cost of preparation of plans, estimates and scrutiny thereof, etc. as per Appendix-I to the Gujarat Public Department manual volume I & II. The total cost of strengthening and remodeling of canal is estimated to be Rupees Nil at present, out of which the share of the Licencee is estimated to be Rupees Nil. The licencee shall deposit this amount of Rupees Nil in advance to enable the Government to take up the entire work on priority basis. The licencee shall pay the balance amount on the basis of actual immediately after the work is completed.
- (4) (2) The licencee shall be allowed to draw the water only after he is paid up the apportioned cost referred to in sub-clause 4(1) above, in advance.
- (5) The licencee shall pay a licence fee at the rate of Rs. 501/- per year or at as such rates as may be

विस्तरित वसु / BISWARUP BASU

मृद्ध महाउद्यक्त (क्ष्माम का प्रतानाती प्रतीन 1)

Grief Consult Manger (Comma 2 550 MS-1)

प्रतीन विदेश (Manger (Comma 2 550 MS-1)

प्रतीन विदेश (Manger (Comma 2 550 MS-1))

प्रतीन विदेश (Manger (Comma 2 550 MS-1))

Executive Engineer
K. R. B. C. Division
Surat.

UP TO

fixed by the Government from time to time in that behalf during the subsistence as the agreement.

- (6) The licencee shall pay for the quantity of water drawn, as measured in the manner provided under clause-7 below, at the rates and terms given below.
- (i) The Licencee shall pay the water charges for the quantity of water actually drawn as per the rates mentioned in the Government of Gujarat, Narmada, Water Resources, Water supply & Kalpsar Department Resolution No. WTR/2005/41/P dated, 3-2-2007, effective from 01-01-2007 subject to fulfillment of conditions laid down in above mentioned resolution as well as conditions mentioned in sanction letter.
- (ii) The interest rates, penalty and all other charges/conditions mentioned in above mentioned Government of Gujarat, Narmada, Water Resources, Water Supply & Kalpsar Department, resolution No. WTR/2005/41/P, dated, 03-02-2007 shall be applicable and the licencee shall have to fulfill it.
- (iii) The above rates so fixed shall be subject to upward revision that may be made by the government in Narmada, Water Resources, Water Supply & Kalpsar Department from time to time in connection with water reserved and used for irrigation & non-irrigation purposes. The rates fixed by the government shall be exclusive of cost of pumping, conveying etc. of water from the source.
- (iv) The charges as mentioned in sub clause-(i), above, shall be paid in advance by the Licencee before 10th day of each month following the

विश्वकार्य यथु / BISWARUP BASU
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Executive Engineer K. R B. C. Division Surat. month to which water charges pertains calculated as per the estimated requirement of water for the month. The bills as per actual payment of charges shall be prepared every month and served on the Licencee for payment thereof.

- (v) If the arrears of water charges referred to above accumulate for more than six months, the Government shall be at liberty to ask the licencee to stop drawl of water from the source and it shall be incumbent on the licencee to do so and in case of default, Government may take action to stop entry into the intake without any notice at the risk and cost of the licencee.
- (vi) If the measuring devices referred to in Clause-7 below, ceases to function or goes out of order in any month, the charges livable in respect of that month shall be calculated on the basis of the average quantity of water drawn in the preceding three months or the quantity of water same month of preceding year drawn in the whichever is higher, provided that there has increase in the capacity of the been no the corresponding plant/plants and requirements thereof during such year. If the capacity of the Plant/Plants has increased during such year, the water drawn shall be correspondingly estimated on the prorata basis. For the purpose of such estimate, the licencee shall furnish necessary data to the Executive Engineer concerned whose decision in the matter shall be final and binding to the licensee.

(7) A suitable scientific measuring device shall be installed by the Licencee at suitable place in

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Surat.

consultation with and with the approval of the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office for measuring the quantity of water drawn by the Licencee.

The cost of measuring device, its installation and maintenance shall be borne by the Licencee. The measurement of the quantity of water drawn shall be taken jointly by the representative of the Government and of the Licencee. The measuring device shall be open for inspection by the concerned authorities.

- (8) If the measuring device referred to in the clause-7, ceases to function or goes out of order, the Licencee shall, as and when such occasion arises, get necessary repairs thereto carried out and restore the same to its original position or replace the same if so found necessary and as required by the Executive Engineer concerned within one month of its going out of order.
- (9) The water drawn by the Licencee from Singanpore Weir shall be used only for the purpose for which permission to use the same is granted to him and as such the use shall be confined to the legitimate requirements of the Licencee.

The Licencee shall not draw water from the above mentioned sources for sale or supply to any person, firm or Company or other body by whatever name called.

(10) (1) The grant of the permission to draw water under this agreement shall not mean any assurance to the Licencee regarding availability of quantity of water as per the requirements of the Licencee and

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K. R. B. C. Division
Surat.

regarding the quality of water. The Licencee shall not be entitled to any compensation for non availability of quantity of water on account of reasons beyond the control of the government/department. It shall be incumbent on the licensee to make its own arrangement to meet its requirement of water during the periods the canal is closed on account of repairs or accidental breach.

- (10) (2) If the special measures for conserving the water and reducing the losses of evaporation and seepage are found necessary in scarcity years, the expenses on this account shall be borne by the Licensee.
- (11) The permission granted in this agreement shall not in any manner prejudicially affect the existing water rights vested in the riparian owners nor shall it any way prejudice the rights of government to launch or implement any new scheme or schemes in public interest in future in connection with the water from Singanpore Weir from which Licensee is permitted to draw water.
- (12) The drawal of water under this agreement by the licencee shall be subject to the provisions of the Gujarat Imigation and Drainage Act, 2013, Gujarat Imigation and Drainage Rules, 2014 and other rules made there under as amended from time to time and orders that may be passed or issued in that behalf by the Government / Department from time to time.
- (13) The Licencee shall at all reasonable times allow the officers of the government to inspect the work sites and records regarding quantity of water drawn, utilized and supplied to other parties, if any, and to take copy of the records.

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Executive, Engineer K. R B. C. Division Surat.

(14) An amount equivalent to three months prevailing water charges shall be initially deposited by the licencee with the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in security deposit for the as office performance of the terms of this agreement. The deposit shall be in the form of Bank Guarantee in any Nationalized Bank/schedule bank and shall be pledged by the licencee in favour of the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office. The enhancement in amount of security deposit due to yearly increase in the rate of water charges shall also be deposited by the Licencee. Such Bank Guarantee must continue in force during entire period of this agreement without any break.

(15) The Executive Engineer, Kakarapar Right Bank Canal Division, Surat shall dispose of all matters pertaining to this agreement subject and falling within his purview subject to decision that may be taken in appeal before the Superintending Engineer, Surat Irrigation Circle in the matter and the decision of the Superintending Engineer in the matter shall be final.

(16) The Licencee shall make its own arrangements for storing its water requirement of about 15 days. The Executive Engineer, Kakarapar Right Bank Canal Division, Surat shall ordinarily inform licencee in advance about the period of closures of the canal for any reason.

(17) The Licencee shall arrange at its own cost the discharge of the trade waste and effluents after due treatment as may be permitted from time to time by the State Water Pollution Control Board safely in

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the place earmarked for the purpose in the vicinity in consultation and with the approval of Public Health Authority. In case where the Collector, Surat District finds that the arrangement of discharge is not suitable, it shall be the duty of Licencee to make other suitable arrangement as may be directed by him. If the discharge of trade waste and effluent proves to be a source of nuisance to the field and or the population in the neighborhoods, the Licencee shall treat the same further in such manner as may be directed by the Government.

- (18) This agreement shall remain in force for a period of 5 years (Five Years) from dated 05/06/2019 thereof unless terminated earlier, by the Licencee by giving six calendar month's notice in writing to the Government for the purpose. The Licencee shall not be eligible for any compensation on account of such premature termination.
- (19) The Government may allow the drawal of water according to the terms stated in this agreement after the expiry of the agreement on receipt of a request to that effect from the Licencee at least six month before the expiry of the period of this agreement.
- (20) The Licencee shall bear all the legal charges, stamp duty, registration fees and translation charges and all other charges and expenses incurred in connection with this presents.
- (21) The Government shall be entitled to terminate this agreement upon serving the Licencee with a notice of 1 month (One Month) for breach of any of the terms and conditions of this agreement or in the event the Licencee fails to pay any sum due to the

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Government under this agreement. The Licencee shall not be eligible to claim any compensation from the Government on account of withdrawing the facility of drawal of water as a result of premature termination of the agreement or even otherwise. Without prejudice to any right of the Government to proceed in accordance with the relevant clauses/rules No.6(v) to recover such sums due from the Licencee, the security deposits shall be forfeited. Any drawl of water from the Singanpore Weir after the expiry of the period of the notice shall be treated as an unauthorised act and shall be subject to such penal charges as may be determined by the Government.

(22) Except as otherwise herein provided, all notices to be given and other actions to be taken on behalf of the Licencee shall be given or taken by the Director of National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat or any other official authorized by the Licencee.

(23) All sums and amount due and payable under this agreement shall be recoverable as arrears of land revenue under the Gujarat Land Revenue Code, 1879 without prejudice to any other rights or remedies available to the Government under any other case.

(24) As per Gujarat state policy for promotion of waste water Recycle and Reuse dated 15th June, 2017 of Urban Development and Urban Housing Development, whenever treated Waste Water is available from any source, in such case, the present permission of drawing Water will be treated as cancelled.

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IN WITNESS WHERE OF Mr. Business authorized by the Board of Directors of the Licencee for and on behalf of the Licencee and Shri H.D. Patel, Executive Engineer, Kakarapar Right Bank Canal Division, Surat for and on behalf of the Governor of Gujarat have signed there presents and herein set their respective seals on the day and year first above written.

Signed, Sealed and OA/।। अठि delivered by आव्याः अविस्त्राचरः कृति delivered by Mr. H.D. Patel Executive Engineer, K.R.B.C. Division, SURAT For and on behalf of the Governor of Gujarat

(Alcenti Derai)

(s.z. Pitel)

in presence of

Witness (I)

Witness

Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat for and on behalf of the

National Thermal Power

Signed, Signed, Chief General Manger (Kawan &

Licensee.

in Presence of

Mr. Kiswarup Basu

Witness (I)

madam Vaishnav Sn MUR (EEMG)

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Witness (II)

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INDIA NON JUDICIAL Government of Gujarat Certificate of Stamp Duty

Certificate No.

Certificate Issued Date

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Consideration Price (Rs.)

First Party

Second Party

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Article 5(h) Agreement (not otherwise provided for)

WATER AGREEMENT

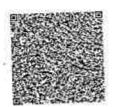
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AGREEMENT

Agreement for supply of water to National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat for drawal of 0.21 MLD 210.57 Cubic meter water per day (0.046 MGD) i.e. (76860 cubic meter per year) water from Singanpore Weir for Drinking purpose.

This agreement made on this day of the 11 2020 between National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat through its Authorized Representative (hereinafter in this agreement called the "Licensee" Which expression shall, unless context otherwise requires and admits, be deemed to include its administrators, executors, successors and assigns) having its registered office at "Kawas Gas Power Project, PO: Aditya Nagar, Surat-394516" of the one part and the Covernor of the State of Gujarat through Executive Engineer, Kakarapar Right Bank Canal Division, Surat in office (herein after called as Government" which expression shall, unless context requires and admits, be deemed to otherwise include his successors in office and assigns) of the other part.

WHERE AS the Licencee has applied to the Government for permission to draw water from Singanpore Weir of Ukai-Kakarapar Command for National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat

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Executive Engineer | 11 2020 K. R. B. C. Division Surat. AND WHEREAS the Government has, under its sanction letter No. WTR/1090/8/Part-2/P, dated 29-09-2020, agreed to grant such permission on the terms and conditions here-in-after appearing and as mentioned in the Government of Gujarat; Narmada, Water Resources, Water Supply & Kalpsar Department Resolution No.WTR/2005/41/P, dated 03/02/2007,

NOW THIS INDENTURE WITNESS and the parties here to hereby agree as follows:

- (1) The Government hereby grants the permission to the Licencee to draw water from Singanpore Weir on the terms and conditions hereafter appearing. The licensee shall construct and maintain the head works for drawing water from Singanpore Weir and other required structures at suitable places as approved by the Government or its authorised officer at their risk & cost and shall provide all ancillary arrangements that may be required in connection with the drawing and conveying the water required for the use of Licensee. The intake structures shall be open to inspection by the Government and the Government shall exercise necessary control.
- (2) The licensee shall install and maintain at its own cost, the pipeline and other requirements required for conveying water from the source of supply to the place of actual use. The expenditure towards the drawal of water i.e. installation of pumps, pipelines, meters and all other requirements in connection with the drawal of water, shall be borne by the Licensee.

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Executive Engineer (6) | 3620 K. R. B. C. Division Surat.

- (3) The licensee shall draw water directly from Singanpore Weir to the extent of 210.57 Cubic meters per day throughout the year for Drinking use as may be required for the optimum plant capacity under operation from time to time.
- (4)(1) The licencee agrees to bear the cost herein below detailed that may be apportioned between the beneficiaries on prorata basis of their demands, on account of remodeling that may take place to meet the total requirements of the beneficiaries in case. Supply of water to him is from Singanpore Weir. The cost of remodeling shall include cost of preparation of plans, estimates and scrutiny thereof, etc. as per Appendix-I to the Gujarat Public Department manual volume I & II. The total cost of strengthening and remodeling of canal is estimated to be Rupees Nil at present, out of which the share of the Licencee is estimated to be Rupees Nil. The licencee shall deposit this amount of Rupees Nil in advance to enable the Government to take up the entire work on priority basis. The licencee shall pay the balance amount on the basis of actual immediately after the work is completed.
- (4)(2) The licencee shall be allowed to draw the water only after he is paid up the apportioned cost referred to in sub-clause 4(1) above, in advance.
- (5) The licencee shall pay a licence fee at the rate of Rs. 501/- per year or at as such rates as may be fixed by the Government from time to time in that behalf during the subsistence as the agreement.

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- (6) The licencee shall pay for the quantity of water drawn, as measured in the manner provided under clause-7 below, at the rates and terms given below.
- (i) The Licencee shall pay the water charges for the quantity of water actually drawn as per the rates mentioned in the Government of Gujarat, Narmada, Water Resources, Water supply & Kalpsar Department Resolution No. WTR/2005/41/P dated, 3-2-2007, effective from 01-01-2007 subject to fulfillment of conditions laid down in above mentioned resolution as well as conditions mentioned in sanction letter.
- (ii) The interest rates, penalty and all other charges/conditions mentioned in above mentioned Government of Gujarat, Narmada, Water Resources, Water Supply & Kalpsar Department, resolution No. WTR/2005/41/P, dated, 03-02-2007 shall be applicable and the licencee shall have to fulfill it.
- (iii) The above rates so fixed shall be subject to upward revision that may be made by the government in Narmada, Water Resources, Water Supply & Kalpsar Department from time to time in connection with water reserved and used for irrigation & non-irrigation purposes. The rates fixed by the government shall be exclusive of cost of pumping, conveying etc. of water from the source.
- (iv) The charges as mentioned in sub clause-(i), above, shall be paid in advance by the Licencee before 10th day of each month following the month to which water charges pertains calculated





as per the estimated requirement of water for the month. The bills as per actual payment of charges shall be prepared every month and served on the Licencee for payment thereof.

- (v) If the arrears of water charges referred to above accumulate for more than six months, the Government shall be at liberty to ask the licencee to stop drawl of water from the source and it shall be incumbent on the licencee to do so and in case of default, Government may take action to stop entry into the intake without any notice at the risk and cost of the licencee.
- (vi) If the measuring devices referred to in Clause-7 below, ceases to function or goes out of order in any month, the charges livable in respect of that month shall be calculated on the basis of the average quantity of water drawn in the preceding three months or the quantity of water drawn in the same month of preceding year whichever is higher, provided that there has been no increase in the capacity of plant/plants and the corresponding requirements thereof during such year. If the capacity of the Plant/Plants has increased during such year, the water drawn shall be correspondingly estimated on the prorata basis. For the purpose of such estimate, the licencee shall furnish necessary data to the Executive Engineer concerned whose decision in the matter shall be final and binding to the licensee.

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(12) The drawal of water under this agreement by the licencee shall be subject to the provisions of the Gujarat Irrigation and Drainage Act, 2013, Gujarat Irrigation and Drainage Rules, 2014 and other rules made there under as amended from time to time and orders that may be passed or issued

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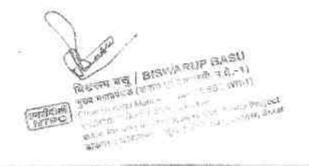
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(14) An amount equivalent to three months prevailing water charges shall be initially deposited by the licencee with the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office as security deposit for the due performance of the terms of this agreement. deposit shall be in the form of Bank Guarantee in any Nationalized Bank/schedule bank and shall be pledged by the licencee in favour of the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office. The enhancement in amount of security deposit due to yearly increase in the rate of water charges shall also be deposited by the Licencee. Such Bank Guarantee must continue in force during entire period of this agreement without any break.

(15) The Executive Engineer, Kakarapar Right Bank Canal Division, Surat shall dispose of all matters pertaining to this agreement subject and falling within his purview subject to decision that may be taken in appeal before the Superintending Engineer, Surat Irrigation Circle in the matter and the decision of the Superintending Engineer in the matter shall be final.





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(18) This agreement shall remain in force for a period of 5 years (Five Years) from dated 05/06/2019 thereof unless terminated earlier, by the Licencee by giving six calendar month's notice in writing to the Government for the purpose. The Licencee shall not be eligible for any compensation on account of such premature termination.

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- (19) The Government may allow the drawal of water according to the terms stated in this agreement after the expiry of the agreement on receipt of a request to that effect from the Licencee at least six month before the expiry of the period of this agreement.
- (20) The Licencee shall bear all the legal charges, stamp duty, registration fees and translation charges and all other charges and expenses incurred in connection with this presents.
- (21) The Government shall be entitled to terminate this agreement upon serving the Licencee with a notice of 1 month (One Month) for breach of any of the terms and conditions of this agreement or in the event the Licencee fails to pay any sum due to the Government under this agreement. The Licencee shall not be eligible to claim any compensation from the Government on account of withdrawing the facility of drawal of water as a result of premature termination of the agreement or even otherwise. Without prejudice to any right of the Government to proceed in accordance with the relevant clauses/rules No.6(v) to recover such sums due from the Licencee, the security deposits shall be forfeited. Any drawl of water from the Singanpore Weir after the expiry of the period of the notice shall be treated as an unauthorised act and shall be subject to such penal charges as may be determined by the Government.

(22) Except as otherwise herein provided, all notices to be given and other actions to be taken on behalf



of the Licencee shall be given or taken by the Director of National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat or any other official authorized by the Licencee.

(23) All sums and amount due and payable under this

agreement shall be recoverable as arrears of land

revenue under the Gujarat Land Revenue Code, 1879 without prejudice to any other rights or remedies available to the Government under any other case. IN WITNESS WHERE OF Mr. . Bisharup Basi. duly authorized by the Board of Directors of the Licencee for and on behalf of the Licencee and Shri H.D. Patel, Executive Engineer, Kakarapar Right Bank Canal Division, Surat for and on behalf of the Governor of Gujarat have signed there presents and herein set their respective seals, on the day and

year first above written.

Signed, Sealed and

delivered by

Mr. H.D. Patel, 04 11 2020

Executive Engineer,

K.R.B.C. Division, SURAT

For and on behalf of the Governor of Gujarat

in presence of

Witness (I) ورام

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Witness (II)

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Signed, Sealed and

delivered by

Mr. Biswarup Basu

National Thermal / Power National Country of the Co

Corporation Company Manger (Kawas & village Kawaga : वासुन्तर त्रात / P.O. Adapanagar, Sure

Choryasi Dist. Surat for and on behalf of the

Licensee.

in Presence of

Witness (I)

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Witness

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DGM (GGM) NTRE Limited.



INDIA NON JUDICIAL Government of Gujarat Certificate of Stamp Duty

Certificate No.

Certificate Issued Date

Account Reference

Unique Doc. Reference

Purchased by

Description of Document

Description

Consideration Price (Rs.)

First Party

Second Party

Stamp Duty Paid By

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AGREEMENT

Agreement for supply of water to National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat for drawal of 0.21 MLD 210.57 Cubic meter water per day (0.046 MGD) i.e. (76860 cubic meter per year) water from Singanpore Weir for Drinking purpose.

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WHERE AS the Licencee has applied to the Government for permission to draw water from Singanpore Weir of Ukai-Kakarapar Command for National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat

AND WHEREAS the Government has, under its sanction letter No. WTR/1090/8/Part-2/P, dated 29-09-2020, agreed to grant such permission on the terms and conditions here-in-after appearing and as mentioned in the Government of Gujarat; Narmada, Water Resources, Water Supply & Kalpsar Department Resolution No.WTR/2005/41/P, dated 03/02/2007,

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- (3) The licensee shall draw water directly from Singanpore Weir to the extent of 210.57 Cubic meters per day throughout the year for Drinking use as may be required for the optimum plant capacity under operation from time to time.
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- (4) (2) The licencee shall be allowed to draw the water only after he is paid up the apportioned cost referred to in sub-clause 4(1) above, in advance.
- (5) The licencee shall pay a licence fee at the rate of Rs. 501/- per year or at as such rates as may be fixed by the Government from time to time in that behalf during the subsistence as the agreement.

- (6) The licencee shall pay for the quantity of water drawn, as measured in the manner provided under clause-7 below, at the rates and terms given below.
- (i) The Licencee shall pay the water charges for the quantity of water actually drawn as per the rates mentioned in the Government of Gujarat, Narmada, Water Resources, Water supply & Kalpsar Department Resolution No. WTR/2005/41/P dated, 3-2-2007, effective from 01-01-2007 subject to fulfillment of conditions laid down in above mentioned resolution as well as conditions mentioned in sanction letter.
- (ii) The interest rates, penalty and all other charges/conditions mentioned in above mentioned Government of Gujarat, Narmada, Water Resources, Water Supply & Kalpsar Department, resolution No. WTR/2005/41/P, dated, 03-02-2007 shall be applicable and the licencee shall have to fulfill it.
- (iii) The above rates so fixed shall be subject to upward revision that may be made by the government in Narmada, Water Resources, Water Supply & Kalpsar Department from time to time in connection with water reserved and used for irrigation & non-irrigation purposes. The rates fixed by the government shall be exclusive of cost of pumping, conveying etc. of water from the source.
- (iv) The charges as mentioned in sub clause-(i), above, shall be paid in advance by the Licencee before 10th day of each month following the month to which water charges pertains calculated

- as per the estimated requirement of water for the month. The bills as per actual payment of charges shall be prepared every month and served on the Licencee for payment thereof.
- (v) If the arrears of water charges referred to above accumulate for more than six months, the Government shall be at liberty to ask the licencee to stop drawl of water from the source and it shall be incumbent on the licencee to do so and in case of default, Government may take action to stop entry into the intake without any notice at the risk and cost of the licencee.
- (vi) If the measuring devices referred to in Clause-7 below, ceases to function or goes out of order in any month, the charges livable in respect of that month shall be calculated on the basis of the average quantity of water drawn in the preceding three months or the quantity of water in the same month of preceding drawn whichever is higher, provided that there has been no increase in the capacity of the plant/plants and the corresponding water requirements thereof during such year. capacity of the Plant/Plants has increased during such year, the water drawn shall be correspondingly estimated on the prorata basis. For the purpose of such estimate, the licencee shall furnish necessary data to the Executive Engineer concerned whose decision in the matter shall be final and binding to the licensee.
- (7) A suitable scientific measuring device shall be installed by the Licencee at suitable place in

consultation with and with the approval of the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office for measuring the quantity of water drawn by the Licencee.

The cost of measuring device, its installation and maintenance shall be borne by the Licencee. The measurement of the quantity of water drawn shall be taken jointly by the representative of the Government and of the Licencee. The measuring device shall be open for inspection by the concerned authorities.

- (8) If the measuring device referred to in the clause-7, ceases to function or goes out of order, the Licencee shall, as and when such occasion arises, get necessary repairs thereto carried out and restore the same to its original position or replace the same if so found necessary and as required by the Executive Engineer concerned within one month of its going out of order.
- (9) The water drawn by the Licencee from Singanpore Weir shall be used only for the purpose for which permission to use the same is granted to him and as such the use shall be confined to the legitimate requirements of the Licencee.

The Licencee shall not draw water from the above mentioned sources for sale or supply to any person, firm or Company or other body by whatever name called.

- (10) (1) The grant of the permission to draw water under this agreement shall not mean any assurance to the Licencee regarding availability of quantity of water as per the requirements of the Licencee and regarding the quality of water. The Licencee shall not be entitled to any compensation for non availability of quantity of water on account of reasons beyond the control of the government/department. It shall be incumbent on the licensee to make its own arrangement to meet its requirement of water during the periods the canal is closed on account of repairs or accidental breach.
- (10)(2) If the special measures for conserving the water and reducing the losses of evaporation and seepage are found necessary in scarcity years, the expenses on this account shall be borne by the Licensee.
- (11) The permission granted in this agreement shall not in any manner prejudicially affect the existing water rights vested in the riparian owners nor shall it any way prejudice the rights of government to launch or implement any new scheme or schemes in public interest in future in connection with the water from Singanpore Weir from which Licensee is permitted to draw water.
- (12) The drawal of water under this agreement by the licencee shall be subject to the provisions of the Gujarat Irrigation and Drainage Act, 2013, Gujarat Irrigation and Drainage Rules, 2014 and other rules made there under as amended from time to time and orders that may be passed or issued

in that behalf by the Government / Department from time to time.

- (13) The Licencee shall at all reasonable times allow the officers of the government to inspect the work sites and records regarding quantity of water drawn, utilized and supplied to other parties, if any, and to take copy of the records.
- water charges shall be initially deposited by the licencee with the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in the office as security deposit for the due performance of the terms of this agreement. The deposit shall be in the form of Bank Guarantee in any Nationalized Bank/schedule bank and shall be pledged by the licencee in favour of the Executive Engineer, Kakarapar Right Bank Canal Division, Surat or his successor in office. The enhancement in amount of security deposit due to yearly increase in the rate of water charges shall also be deposited by the Licencee. Such Bank Guarantee must continue in force during entire period of this agreement without any break.
- (15) The Executive Engineer, Kakarapar Right Bank Canal Division, Surat shall dispose of all matters pertaining to this agreement subject and falling within his purview subject to decision that may be taken in appeal before the Superintending Engineer, Surat Irrigation Circle in the matter and the decision of the Superintending Engineer in the matter shall be final.

- (16) The Licencee shall make its own arrangements for storing its water requirement of about 15 days. The Executive Engineer, Kakarapar Right Bank Canal Division, Surat shall ordinarily inform licencee in advance about the period of closures of the canal for any reason.
- (17) The Licencee shall arrange at its own cost the discharge of the trade waste and effluents after due treatment as may be permitted from time to time by the State Water Pollution Control Board safely in the place earmarked for the purpose in the vicinity in consultation and with the approval of Public Health Authority. In case where the Collector, Surat District finds that the arrangement of discharge is not suitable, it shall be the duty of Licencee to make other suitable arrangement as may be directed by him. If the discharge of trade waste and effluent proves to be a source of nuisance to the field and or the population in the neighborhoods, the Licencee shall treat the same further in such manner as may be directed by the Government.
- (18) This agreement shall remain in force for a period of 5 years (Five Years) from dated 05/06/2019 thereof unless terminated earlier, by the Licencee by giving six calendar month's notice in writing to the Government for the purpose. The Licencee shall not be eligible for any compensation on account of such premature termination.

- (19) The Government may allow the drawal of water according to the terms stated in this agreement after the expiry of the agreement on receipt of a request to that effect from the Licencee at least six month before the expiry of the period of this agreement.
- (20) The Licencee shall bear all the legal charges, stamp duty, registration fees and translation charges and all other charges and expenses incurred in connection with this presents.
- (21) The Government shall be entitled to terminate this agreement upon serving the Licencee with a notice of 1 month (One Month) for breach of any of the terms and conditions of this agreement or in the event the Licencee fails to pay any sum due to the Government under this agreement. The Licencee shall not be eligible to claim any compensation from the Government on account of withdrawing the facility of drawal of water as a result of premature termination agreement or even otherwise. Without the prejudice to any right of the Government to proceed in accordance with the relevant clauses/rules No.6(v) to recover such sums due from the Licencee, the security deposits shall be forfeited. Any drawl of water from the Singanpore Weir after the expiry of the period of the notice shall be treated as an unauthorised act and shall be subject to such penal charges as may be determined by the Government.
- (22) Except as otherwise herein provided, all notices to be given and other actions to be taken on behalf

of the Licencee shall be given or taken by the Director of National Thermal Power Corporation Limited, at village Kawas, Ta. Choryasi Dist. Surat or any other official authorized by the Licencee.

(23) All sums and amount due and payable under this agreement shall be recoverable as arrears of land revenue under the Gujarat Land Revenue Code, 1879 without prejudice to any other rights or remedies available to the Government under any other case. IN WITNESS WHERE OF Mr. authorized by the Board of Directors of the Licencee for and on behalf of the Licencee and Shri H.D. Patel, Executive Engineer, Kakarapar Right Bank Canal Division, Surat for and on behalf of the Governor of Gujarat have signed there presents and herein set their respective seals on the day and year first above written.

Signed, Sealed and Signed, Sealed and delivered by Mr. H.D. Patel Executive Engineer, K.R.B.C. Division, SURAT For and on behalf of the

in presence of Witness (I)

Witness (II)

delivered by Mr.

National Thermal Power Corporation Limited, at village Kawas, Ta. Governor of Gujarat Choryasi Dist. Surat for and on behalf of the Licensee. in Presence of Witness (I)

Witness (II)