

Annexure 1

WE HAVE A HEAD FOR BATTERIES | **Electronics**

Ref: EN/torrent sugen/JUL/2024-25

Date: 23.07.2024

M/s. Torrent Power Ltd
Surat

Kind Attention: Mr. Ankur

Dear Sir,

Sub: Offer

Ref: your email dated 23.07.2024

We thank you very much for your valuable enquiry and we take great pleasure in offering the below

S. No.	Battery Model	cells	Sets	Total no. of blocs	Unit Price (Rs.)	Amount (Rs.)
1	grid power V M 2-2140 (OSP.HC 2100) (Grid Plate) With AquaGen recombination vent plug	108	4	432	1,42,006.00	6,13,46,592.00
2	Service - Supervision - Installation and commissioning (10 days) beyond 15000/day		4		1,50,000.00	6,00,000.00
3	<u>Less</u> buy back of old cells to be sent to recycling (108 cells per bank) (mandatory)		4		9,80,100.00	39,20,400.00

Supply of cells in unfilled drycharged, Acid will be supplied in cans

Terms & Conditions:

GST: applicable as extra - 28% on new, 18% on buy back
 Delivery Terms: FOR Site
 Readiness: From date of receipt of PO Approx. 12- 16Weeks
 Payment: As agreed previously
 Validity of offer: 30.09.2024

Thanking you,

Yours faithfully,
For Electro NICS


Authorized Signatory



Ref: EN/torrent sugen/SEP/2024-25
Date: 11.09.2024

M/s. Torrent Power Ltd
SUGEN - Surat

Kind Attention: Mr.Ankur

Dear Sir,

Sub: Offer

Ref: your email dated 03.09.2024

We thank you very much for your valuable enquiry and we take great pleasure in offering the below

S. No.	Battery Model	cells	Sets	Total no. of blocs	Unit Price (Rs.)	Amount (Rs.)
1	grid power V M 2-450 (5 OSP.HC 425) (Grid Plate) With AquaGen recombination vent plug	108	2	216	43,850.00	94,71,600.00
2	Service - Supervision - Installation and commissioning (10 days) beyond 18000/day		2		1,80,000.00	3,60,000.00

Supply of cells in unfilled drycharged, Acid will be supplied in cans

Terms & Conditions:

GST: applicable as extra - 28% on new, 18% on service
Delivery Terms: FOR Site
Readiness: From date of receipt of PO Approx. 12- 16Weeks
Payment: As agreed previously
Validity of offer: 10.10.2024

Thanking you,

Yours faithfully,
For Electro NICS

Authorized Signatory

**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 257/GT/2020

Coram:

**Shri I.S. Jha, Member
Shri Arun Goyal, Member
Shri Pravas Kumar Singh, Member**

Date of Order: 22nd June 2023

IN THE MATTER OF

Petition for truing-up of tariff for the period 2014-19 and for determination of tariff for the period 2019-24 in respect of Rangit Power Station (60 MW).

AND

IN THE MATTER OF

NHPC Limited
NHPC Office Complex, Sector-33,
Faridabad (Haryana)- 121003

...Petitioner

Vs

1. West Bengal State Electricity Distribution Company Limited,
Vidhyut Bhawan (8th Floor)
Block-DJ, Sector-II, Salt Lake,
Kolkata- 700091 (West Bengal)
2. Damodar Valley Corporation,
DVC Towers, VIP Road,
Kolkata -700054 (West Bengal).
3. Jharkhand Bijli Vitran Nigam Limited,
H.E.C Dhruwa, Ranchi,
Jharkhand-834002.
4. North Bihar Power Distribution Company Limited,
Vidyut Bhawan, Bailey Road,
Patna – 800001(Bihar)
5. South Bihar Power Distribution Company Limited,
Vidyut Bhawan, Bailey Road,
Patna – 800001(Bihar)



(d) The replacement of such asset or equipment has otherwise been allowed by the Commission.

66. Regulation 26 of the 2019 Tariff Regulations provides as under:

26. Additional Capitalization beyond the original scope

(1) The capital expenditure, in respect of existing generating station or the transmission system including communication system, incurred or projected to be incurred on the following counts beyond the original scope, may be admitted by the Commission, subject to prudence check:

(a) Liabilities to meet award of arbitration or for compliance of order or directions of any statutory authority, or order or decree of any court of law;

(b) Change in law or compliance of any existing law;

(c) Force Majeure events;

(d) Need for higher security and safety of the plant as advised or directed by appropriate Indian Government Instrumentality or statutory authorities responsible for national or internal security;

(e) Deferred works relating to ash pond or ash handling system in additional to the original scope of work, on case to case basis:

Provided also that if any expenditure has been claimed under Renovation and Modernization (R&M) or repairs and maintenance under O&M expenses, the same shall not be claimed under this Regulation;

(f) Usage of water from sewage treatment plant in thermal generating station.

(2) In case of de-capitalisation of assets of a generating company or the transmission licensee, as the case may be, the original cost of such asset as on the date of de-capitalisation shall be deducted from the value of gross fixed asset and corresponding loan as well as equity shall be deducted from outstanding loan and the equity respectively in the year such de-capitalisation takes place with corresponding adjustments in cumulative depreciation and cumulative repayment of loan, duly taking into consideration the year in which it was capitalized.

67. The Petitioner has claimed projected additional capital expenditure under various provisions of Regulation 25 and Regulation 26 of the 2019 Tariff Regulations, wherein, some of the admitted capital works have spilled over from the period 2014-19. Based on this, the details of additional capital expenditure claimed by the Petitioner vide affidavit dated 9.7.2021(revised) are examined as under:

<i>(Rs. in lakh)</i>				
2019-20	2020-21	2021-22	2022-23	2023-24
742.00	806.00	247.00	820.00	448.00



2019-20

(Rs. in lakh)					
S. No	Details of the claim	Amount claimed	Justification submitted by the Petitioner	Remarks on admissibility	Amount Allowed
A. Left over Items allowed in 2014-19					
1	Replacement of 2 nos G40 Governor with new one.	200.00	The Petitioner has submitted that Commission has allowed Rs.500 lakh (Rs 250 lakh in 2017-18 & Rs 250 Lakhs in 2018-19) vide its order dated 06.01.2015 in petition no. 232/GT/2014 for replacement of TWO G40 Governor. Gross value of Old Asset is 16.12 lakhs each. Power Station has procured Digital Governors for all three units for Rs 200.0 Lakhs and commissioned during 2019-20. Prices are as discovered in tendering process. Reason for Delay: Initial the case was initiated for purchase of two no's unit digital governor from BHEL(OEM) with a feature of RGMO and FGMO as per IEGC. On rate analysis it was found BHEL has offered abnormal higher prices for these items. Thereafter, it was decided to procure Digital Governor for all three Units through open tender. Finally, supply order placed for replacement of 3 no's G40 Governor with Digital governor instead of two numbers. Refer: SI No.1 of 2019-20 in	Since the additional capital expenditure for this asset was allowed vide its order dated 6.1.2016 in Petition 232/GT/2014, the claim of the Petitioner, is allowed under Regulation 25(2)(c) of 2019 Tariff Regulations. The de-capitalization of the old asset has been considered under Assumed Deletion.	200.00



			9Bi-2019-24. Claimed under Regulation 25(2)(c) of 2019 Tariff Regulations.		
	Sub-total (A)	200.00			200.00
B. Replacement of Assets deployed under the original scope, but after the cut-off date (Regulation 25)					
1	Control and Monitoring System (SCADA)	400.00	<p>On replacement basis: Rangit Power Station was commissioned in 2000 and the unit control system was implemented using hard wired relay logic control for sequential control of units. The above system has been built around microprocessor base hardware pro control P13/42. This hardware is manufactured at BHEL in collaboration with ABB Switzerland. M/s ABB stated their site as follows " The new S+ Operations - P13 Connect is a modern HMI solution designed to replace existing operator stations in Pro control P13/42 control systems. It runs on the latest Windows 64-bit technology and supports all variants from single compact systems to large distributed and redundant client/server configurations. Presently, SCADA system is not installed in Rangit Power Station. The units/ lines are being synchronised manually. The existing sequential control/ synchronizer are</p>	<p>Considering the fact that the expenditure claimed is on account of replacement of asset /work due to obsolescence of technology, the same is allowed under Regulation 25(2)(c) of the 2019 Tariff Regulations. The de-capitalization of old asset/work has been considered under assumed deletions.</p>	400.00



			<p>based on old and obsolete technology, for which spares are not available. Problems like frequent failure of cards and software related problems, are affecting Generation by the way of maloperation of Generating units. Also, required support is not available from OEM (BHEL). Recently FRAS and DSM for plant operation has been introduced for better Grid stability and reliability for which precise control and monitoring of Operation parameters is required. To facilitate reliable operation and effective monitoring of power station, the existing Control and Monitoring is required to be replaced with latest SCADA system. All the Unit controller kept shall put to use by FY 2020-21 and commissioned. The work is proposed in 2019-20 (Rs 400 lakhs) & 2020-21 (Rs 300 lakhs) Assumed deletion is given at sl no 2 of 9B(i) 2020-21 for add cap of B1 2019-20 and B1 of 2020-21. Claimed under Regulation 25(2)(c) of 2019 Tariff Regulations</p>		
2	Replacement of 220 V Battery Bank	32.00	<p>On replacement basis: Two sets of 550 AH, 220 Volt DC Battery</p>	Considering the fact that the expenditure claimed is on account of	32.00



			Bank was installed at Rangit Power Station during commissioning in year 2000. It is source of un-interrupted power supply to Control & Protection system, Digital Governor. Existing Battery Bank has completed its useful life of more than 20 years. Due to ageing some cells of battery dead and being old and obsolete its spares are also not available. Therefore, existing Battery Bank in 2019-20, Battery Charger and DCDB in 2020-21 is required to be replaced with new one. Assumed deletion is given at s/ no 3 of 9B(i) 2020-21 for add cap of B2 2019-20 and B2 of 2020-21. Claimed under Regulation 25(2)(c) of 2019 Tariff Regulations.	replacement of asset /work due to obsolescence of technology, the same is allowed under Regulation 25(2)(c) of the 2019 Tariff Regulations. The de-capitalization of old asset/work has been considered under assumed deletions.	
	Sub-Total (B)	432.00			432.00
C. Additional Capitalization beyond the original scope, but after the cut-off date (Regulation 26)					
1	Construction of new approach road to Dam site of Rangit Power Station	110.00	The major part of existing approach road to Dam is situated at the left bank of the upstream of Dam. The approach road near 300 m of upstream on left bank from Dam axis near Dam control room becomes very vulnerable to Traffic movement during monsoon. In that portion, differential settlement occurs along the road since commissioning due to	The expenditure is related to the security and safety of the generating station. The Petitioner has furnished documentary evidence in support of its claim. Accordingly, the same is allowed under Regulation 26(1)(d) of the 2019 Tariff Regulations.	110.00



**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 293/GT/2019

Coram:

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

Date of Order: 31st March 2022

IN THE MATTER OF

Petition for revision of tariff of Doyang Hydro Electric Power plant (75 MW) of North Eastern Electric Power Corporation Limited, Shillong for the 2014-19 tariff period after true-up exercise.

AND

IN THE MATTER OF

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

.... Petitioner

Vs

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



2015-16

15. The admissibility of the actual additional capital expenditure claimed by the Petitioner and allowed for 2015-16, on prudence check of the justification furnished by the Petitioner are as under:

Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner/Submission of the Respondents	(Rs.in lakh) Admissibility	Amount allowed
Construction of additional quarters as per entitlement	767.56	14(3)(viii)	<p>In addition to the construction of quarters, ancillary works like approach road, side drains, boundary wall, security booth etc were also taken up which led to increase in additional expenditure.</p> <p>The Respondent APDCL has submitted that the amount approved by the Commission is for additional quarter as per entitlement only and the Petitioner should have taken prior permission of the Commission before carrying out the ancillary works.</p>	<p>The Commission vide order dated 13.1.2016 in Petition No. 43/GT/2015 had allowed the additional capitalization of Rs. 650 lakh for this work. The actual cost incurred by the Petitioner is as per the work executed as per the actual site conditions and necessity. In view of the above the additional capitalization claimed is allowed under Regulation 14(3)(viii) of the 2014 Tariff Regulations.</p>	767.56
Parapet wall at Dam top	5.29	14(3)(viii)	<p>For safety of human life, parapet wall was necessary at the downstream side of the Dam Top.</p> <p>The Respondent APDCL has submitted that the Commission may examine and decide accordingly.</p>	<p>The work is considered necessary for safety of the employees working at site and in turn will facilitate the efficient and successful operation of the plant. As the additional capital expenditure incurred is in respect of assets/ works which were already allowed vide order dated 13.1.2016 in Petition No. 43/GT/2015, the same is allowed under Regulation 14(3)(viii) of the 2014 Tariff Regulations.</p>	5.29
Replacement of 220 V, 600 AH, 2 V/Cell Battery Bank	71.76	14(3)(viii)	<p>The Petitioner has submitted that due to prolonged usage that is for over 15 years of the existing 110 Nos. (2V each), 220 V, 600 AH Battery Bank, it was felt necessary that the same needed to be replaced by procuring a new set. The Battery Bank supplies 220 V DC to all the local and remote</p>	<p>As the expenditure incurred is in respect of assets/ works which was already allowed vide Commission's order dated 13.1.2016 in Petition No. 43/GT/2015, the same is allowed under Regulation 14(3)(viii) of</p>	71.76



Works/ Items	Amount claimed	Regulation under which claimed	Justification by the Petitioner/Submission of the Respondents	Admissibility	Amount allowed
			controls and relays of DHEP Power Station and Switchyard Panels and, in turn, failure of this Battery Bank would jeopardize the running of the Power Station. The existing Battery Bank had completed its service life and hence replacement was necessary. The Respondent APDCL has submitted that the Commission may examine and decide accordingly.	the 2014 Tariff Regulations. Against the projected expenditure allowed, the Petitioner, has capitalised an amount of Rs.71.76 lakh in 2015-16, but has not indicated the de-capitalized value of old asset. Hence, the de-capitalized value of the old asset has been considered under "Assumed Deletions".	
Replacement of 5 MVA, 132/33 kV Station Service Transformer	28.46	14(3)(viii)	The 5 MVA, 132/33 kV, CGL make Station Transformer was commissioned in the year 1999. However, due to recurring problems the same was taken out of service and instead a 2.5 MVA, 132/33 kV Areva make transformer was put into service in January 2011. After inspection of the Core Coil assembly of the 5 MVA Transformer it was found that copper granules were scattered in the tank and burnt out marks were also visible in the top disc of the Y-Phase. The service engineer from M/s CGL, due to recurring problems history of the said transformer, recommended for replacement of all 3 nos. (both HV and LV) coils for restoration of the transformer. Accordingly, complete repair and renovation of the 5 MVA 132/33 kV Station Service Transformer was done at a cost of Rs. 28.46 lakhs and the 5MVA Station Service Transformer put into service in the FY 2015-16 and performing satisfactorily since then. The Respondent APDCL has submitted that the Commission may examine and decide accordingly.	As the expenditure incurred is in respect of assets/ works which was already allowed vide Commission's order dated 13.1.2016 in Petition No. 43/GT/2015, the same is allowed under Regulation 14(3)(viii) of the 2014 Tariff Regulations. Against the projected expenditure allowed, the Petitioner has capitalised an amount of Rs.28.46 lakh in 2015-16, but has not indicated the de-capitalized value of old asset. Hence, the de-capitalized value of the old asset has been considered under "Assumed Deletions".	28.46
Total amount Claimed	873.07				
Total amount Allowed					873.07



Abhishek B Mehta / Finance / DGEN

Subject: Meeting Notice: Meeting regarding discussion on flexible operation of gas based thermal power stations-reg

From: TETD Division, CEA <cetetd-cea@gov.in>

Sent: Monday, September 2, 2024 2:23 PM

To: CMD, NTPC <cmd@ntpc.co.in>; do@ntpc.co.in <do@ntpc.co.in>; ian rebello <ian.rebello@siemen.in>; R S Negi/MKTG/CRP/Torrent <RSNegi@TorrentPharma.com>; pranavshah@torrentpower.com <pranavshah@torrentpower.com>; ajay sunkari1 <ajay.sunkari1@arcelormittal.com>; arvind.acharya@ge.com <arvind.acharya@ge.com>

Cc: Member Thermal <member_thermal@nic.in>; singhp7 <singhp7@nic.in>; Venkateswarlu Talluri <venkat_talluri@nic.in>; Rajeev Kumar Mittal <rkmcea@nic.in>

Subject: Meeting Notice: Meeting regarding discussion on flexible operation of gas based thermal power stations-reg

You don't often get email from cetetd-cea@gov.in. [Learn why this is important](#)
[External: Treat content with extra caution.]

Sir,

It is to inform that a meeting on the subject matter is scheduled to be held on 04.09.2024 at 03:00 PM under the Chairmanship of Joint Secretary (Thermal), MoP at O/o JS (Thermal), 4th Floor, Shram Shakti Bhawan, Rafi Marg, New Delhi - 110001.

2. It is requested that the concerned officials from your organization may kindly make it convenient to attend the above meeting, and provide a line of confirmation for the same please.

Regards
O/o Chief Engineer (TE&TD)
CEA


75
Azadi Ka
Amrit Mahotsav

Purchase Order Document

Annexure 5

PO No: Dahej GEN/O&M/37311/3110001767

PO Date: 06.06.2024

Currency: EUR

Siemens Energy Global GmbH & Co. KG,
Freyeslebenstrasse 1
Erlangen, Erlangen, 91058
Bayern, Germany.
Tel-No: 04991311732452
E-mail: bernhard.schwartz@siemens.com

Subject : PO 3110001766 & 3110001767 are to be read together.

Dear Sir,

Please supply material in accordance with conditions given in the order. In case of any inconsistency between the conditions stated below and standard terms & conditions given at the end of this order, the conditions stated below will prevail. Kindly specifically refer and comply Important note as mentioned.

SR NO	Item & Description	QTY	UOM	Rate	Per	Value	Sch Qty	Sch Date
1	Load Curve Assessment for Cold Start	70.000	H	292.00	1	20,440.00	70.000	Before 14.10.2024
2	Preparation of FRRs	100.000	AU	292.00	1	29,200.00	100.000	Before 14.02.2025

Order Value: 49,640.00

Price: Firm & CIP Mumbai Airport, India

Taxes : RCM IGST 18%

Packing & Forwarding: Inclusive

Payment : Against Proforma Invoice

Terms of Payment: - 30% of basic order value will be Advance.
- 70% of basic order value within 30 days from the date of FRR (load curves).

Liquidated Damages (LD): In the event of supplies / services being delayed beyond scheduled date, the LD @ 0.50 % per Week delay for each calendar week of delay or part thereof and subject to maximum of 5.00 % of Order Value of Delayed Qty will be applicable. Taxes, if applicable, will be payable by the supplier/ Contractor in addition to Liquidated Damages.
Schedule date indicated above is the date by which materials should be received at TPL Store / Site or services to be completed as the case may be. Any delay beyond the scheduled date will attract Liquidated Damages as per Liquidated Damages terms.
LD shall be applicable after 14 days of schedule date.

Penalty Text: LD shall be applicated as above if one or both of the following conditions are not met.
- "Minimum performance improvement detail to be provided by 30.11.2024.
- Completion date 14.02.2025.

Warranties / Guarantee: M/s SIEMENS will provide DGEN Unit - 53 specific performance benefit/ acceptance criteria after detailed engineering, for each upgrade. The same will be discussed jointly approximately in November 2024 and is subject to acceptance of both parties. The acceptance will be done during the commissioning. If, after completion of the acceptance & observing repeatability of performance in subsequent multiple operations and if performance is found satisfactory & acceptable, M/s SIEMENS can request acceptance of the Upgrade. M/s Torrent Power shall provide such acceptance in written form within 2 weeks of the request.

Additional Terms: - Minimum performance improvement (MPM) guarantee: A minimum performance improvement guarantee will be provided after analysis and before FRR. If not acceptable to

DGEN MEGA POWER PROJECT
CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J2ZB
Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
Dist: Bharuch - 392130. Phone: 02641 61200 Fax: 02641 612008

Amd No: 0

PO Document : 3110001767

Page : 1 of 5

Purchase Order Document

PO No: Dahej GEN/O&M/37311/3110001767

PO Date: 06.06.2024

Currency: EUR

M/s Torrent Power, the parties shall agree on "Termination of the PO".

- Performance guarantee: will be discussed at the time of finalization of "Minimum performance improvement" (MPM).

- Final price will be finalized with LTSA and will be adjusted in subsequent transactions if payment is made. M/s SIEMENS to provide separate cost of material and service at time of price finalization for taxation purpose whereas applicable.

- Following terms will be discussed after analysis and before FRR. If not acceptable to M/s Torrent Power, Contract shall be terminated.

- Minimum performance improvement guarantee
- Performance guarantee

- PO is on "Lumpsum" basis and value indicated as above is only for reference.

Important Note for Supply of Materials in SEZ:

Note 1 - As Torrent Power Limited - DGEN Mega Power Project falls under the territory of SEZ, It is mandatory to endorse/stamp all incoming materials by SEZ. In view of this, please ensure that all Inward material Invoice is stamped at SEZ Security entry gate before delivery to DGEN site. We are not responsible for non-acceptance of materials at our site / non-payment of dues due to non-availability of SEZ Inward Stamp on Invoice. Accordingly, you are requested to send one additional copy of invoice with courier agency / carrier agency / Goods Transport Agency for making Inward stamp by the said agency on Invoice at SEZ Security entry Gate before delivery to our DGEN site. Also note that all material invoice shall be with applicable IGST and Tax Invoice.

Note 2 - Any increase in rates of taxes & duties after placement of order, which becomes leviable during the execution of the Purchase Order / Contract, shall be borne by the Company. If it is extra at actual or else if it is inclusive then the same shall be borne by the Supplier / Contractor. However, in the case of delay in delivery attributable to the Supplier / Contractor, any increase in the taxes & duties etc. shall be borne by the Supplier / Contractor. But, in the case of delay in delivery not attributable solely to the Company or to the Supplier / Contractor, any increase in the taxes & duties shall be shared between the Company & Supplier / Contractor.

TCS Applicable and consequence:

According to section 206C(1H) of Income Tax Act, suppliers may levy TCS on their sales consideration as per the applicable rates enacted under the Income Tax Act.

The supplier has to deposit the collected TCS amount to government and amounts should get reflected in returns filed and certificates issued in stipulated time as prescribed under the Act. In absence, Torrent Power Limited has right to recovery TCS loss along with consequential interest and penalty or deduct the amount equivalent to the said liabilities from their outstanding payment. Ensure to mention correct PAN [AACCT0294J] for all the above compliances.

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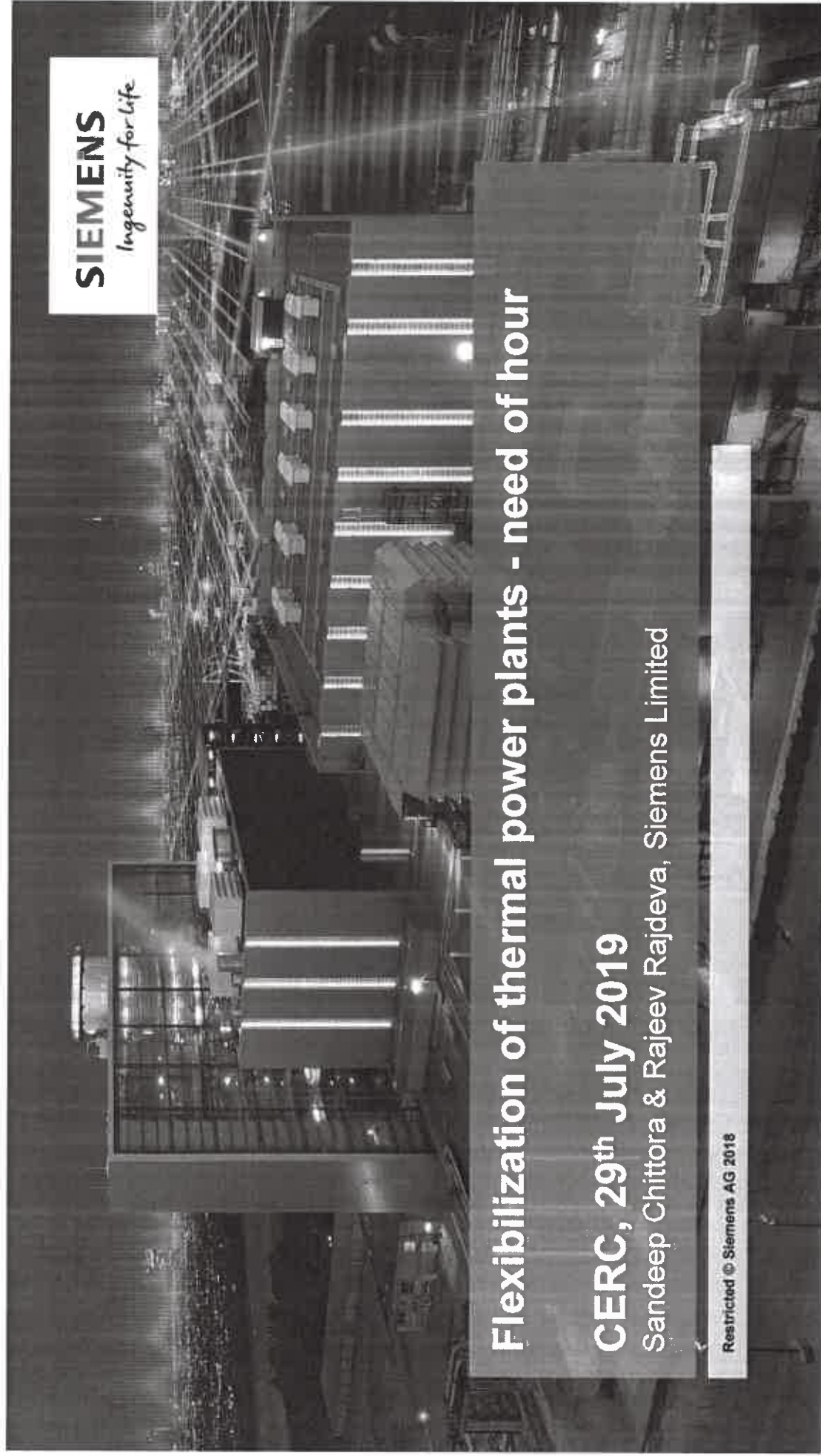


DGEN MEGA POWER PROJECT
CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J2ZB
Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
Dist: Bharuch - 392130. Phone: 02641 61200 Fax: 02641 612008

Amd No: 0

PO Document : 3110001767

Page : 2 of 5



SIEMENS
Ingenuity for life

Flexibilization of thermal power plants - need of hour

CERC, 29th July 2019

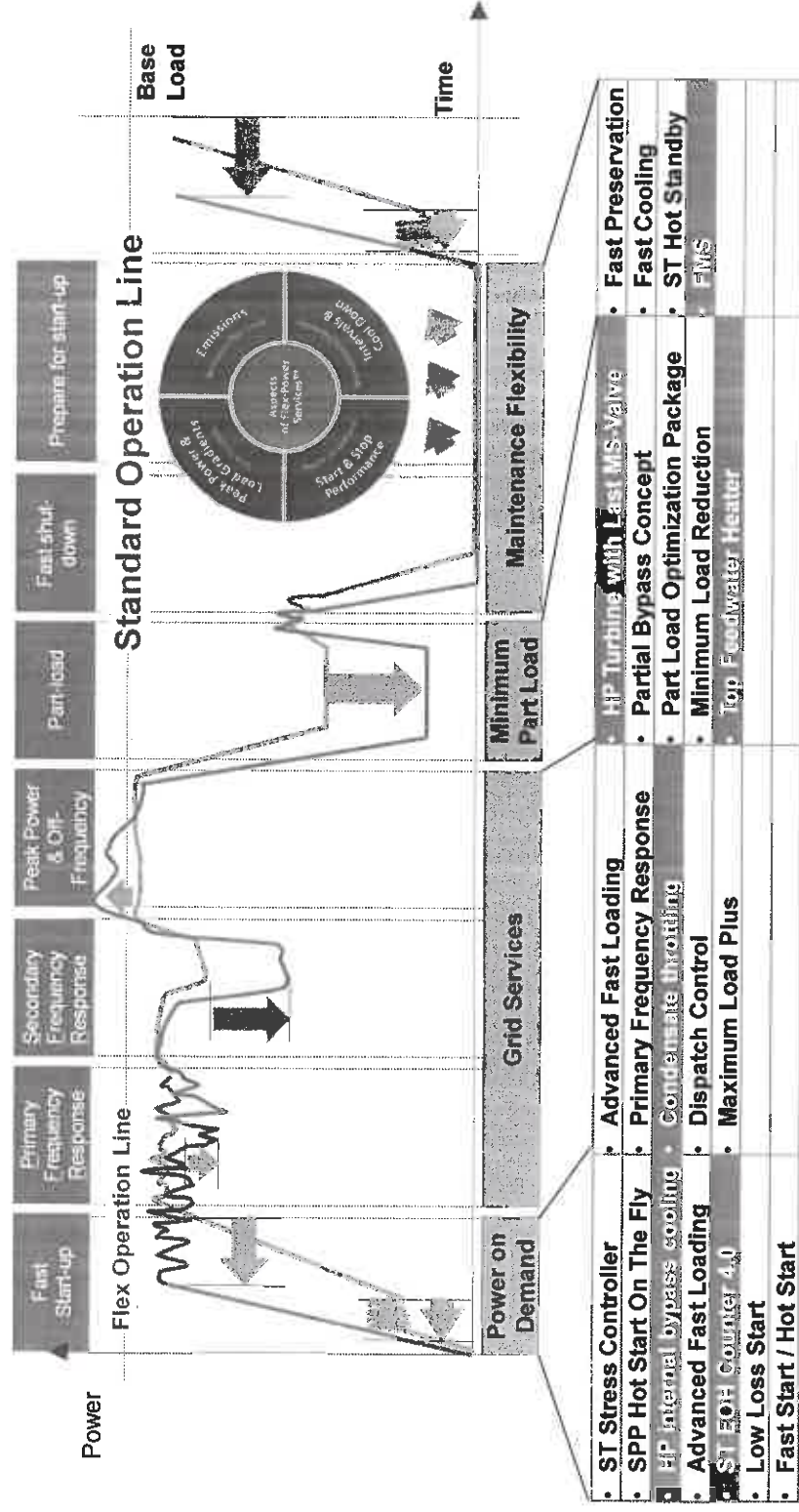
Sandeep Chittora & Rajeev Rajdeva, Siemens Limited

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Market requirements:

Changed operational regimes require highly flexible products



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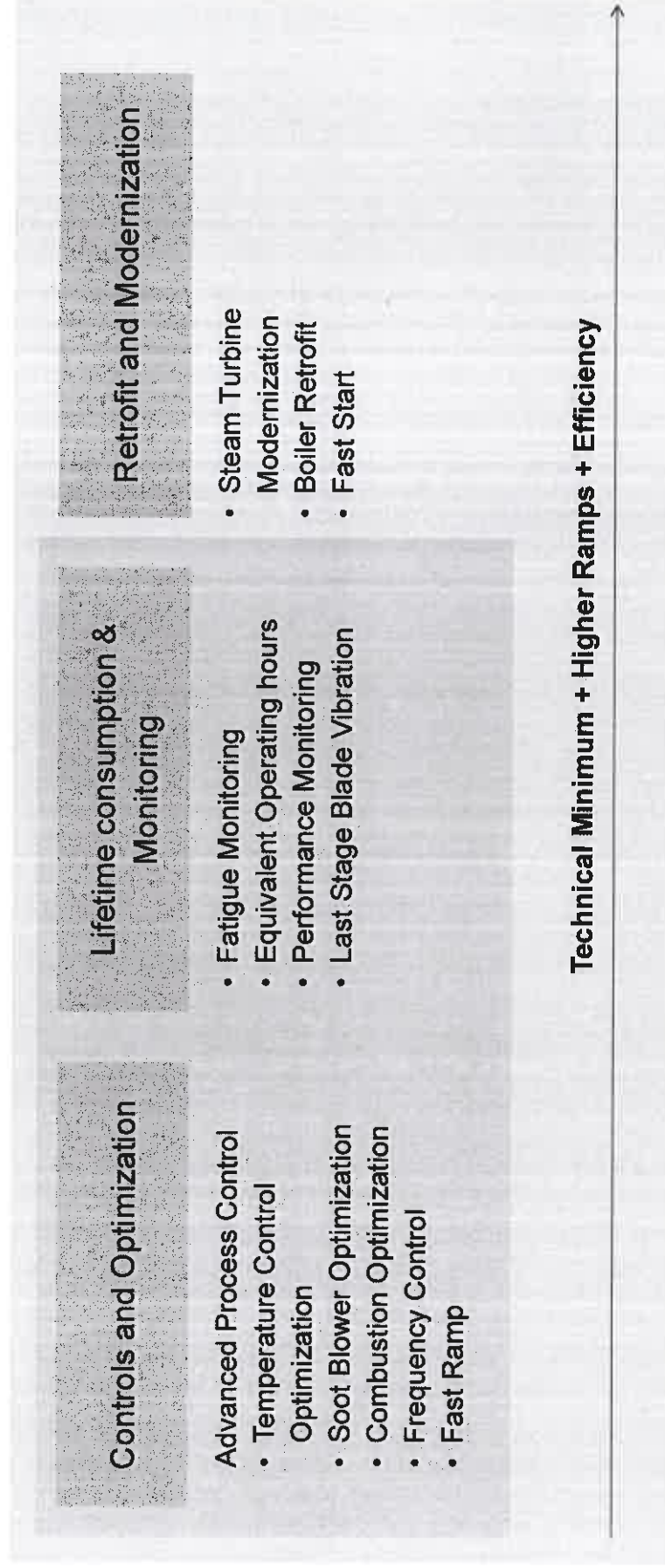
Page 2

19.03.2019

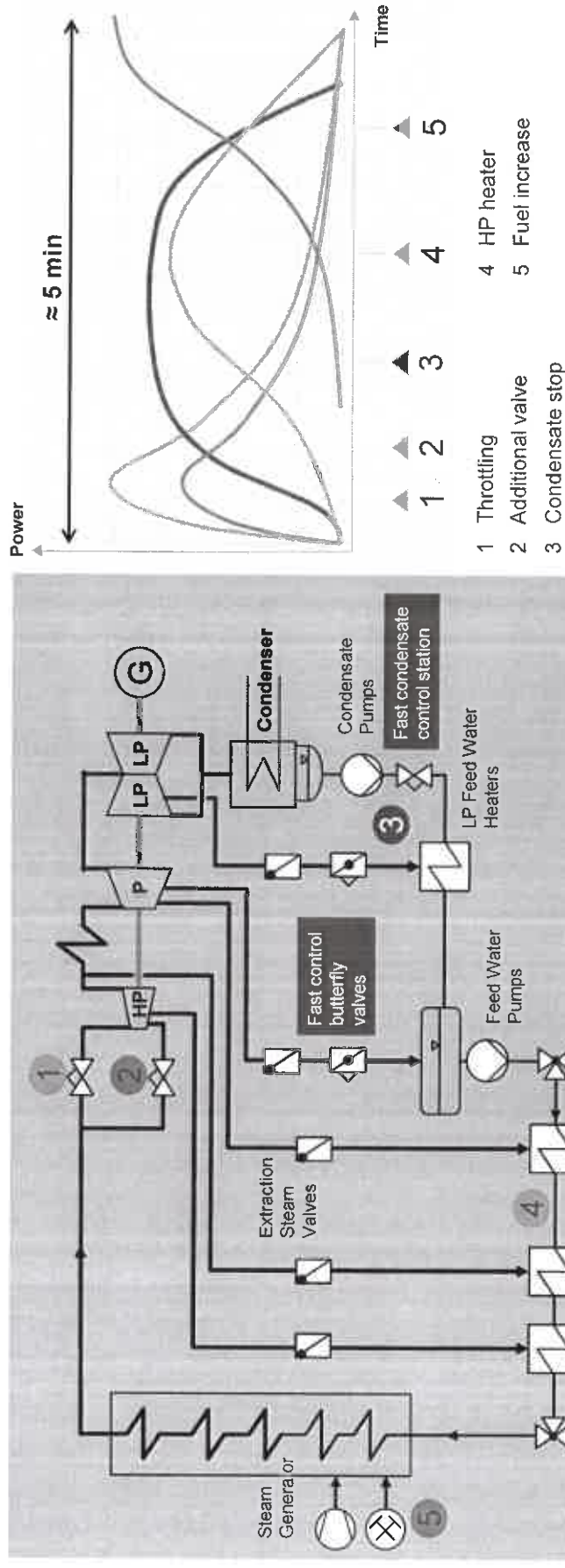
Sandeep Chittora

Power Generation Services

Flexibility Road Map

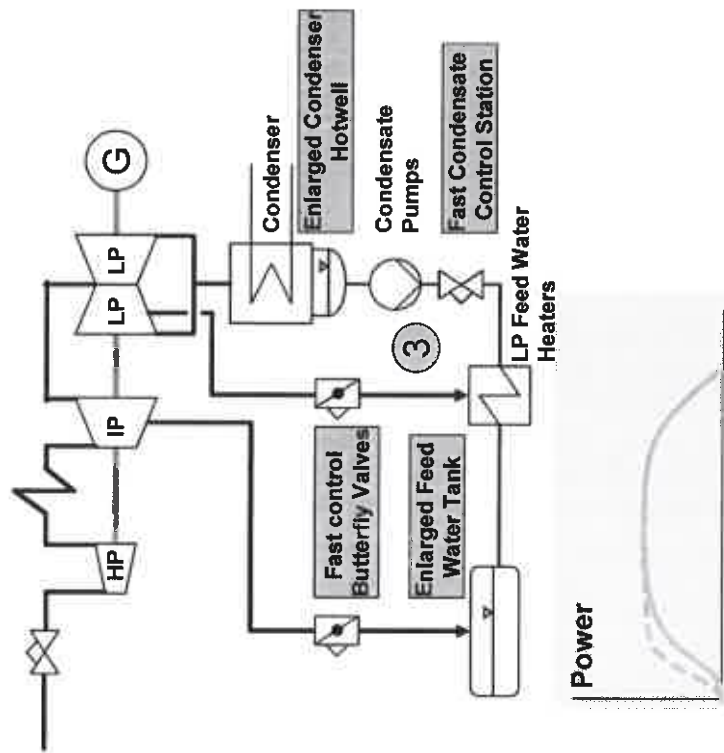


Measures for fast load ramping Overview



“Condensate throttling” controls storages in the water steam cycle to increase ramp rates

Iskenderun,
Neurath, Luenen
and NTPC Dadri



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Page 5
19.03.2019

- a. Enlarge storage volume
- b. Fast condensate control valve
- c. Fast control valves in LP extractions



NTPC Dadri Stage II – Unit #6 490 MW

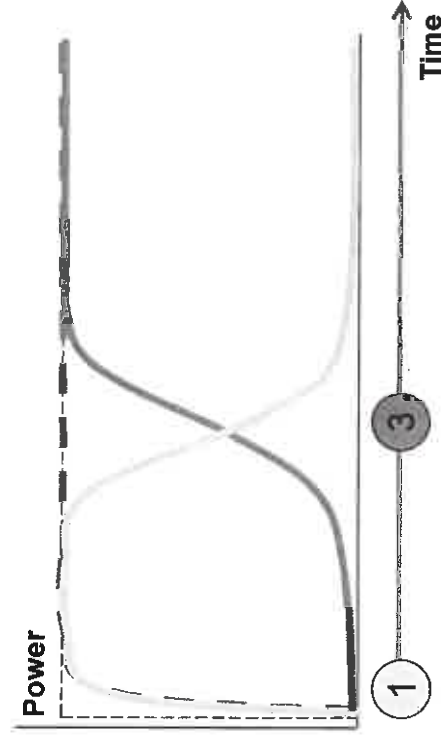
Sandeep Chittora

Power Generation Services

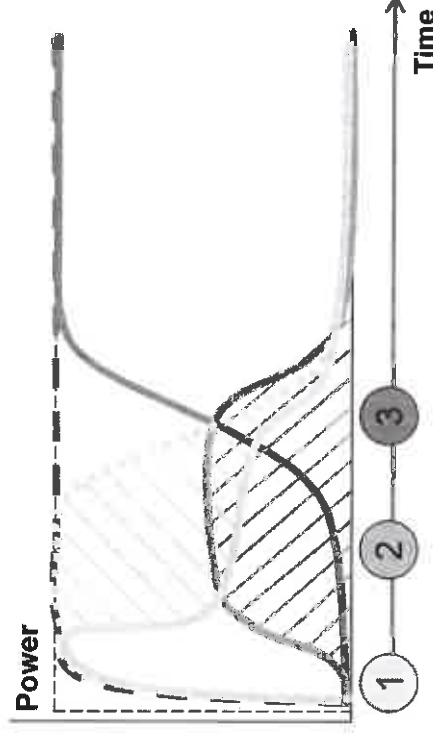
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Let P3000 Condensate Throttling increase your profitability by providing state-of-the-art frequency response (2/3)

Frequency Response without P3000 Condensate Throttling :

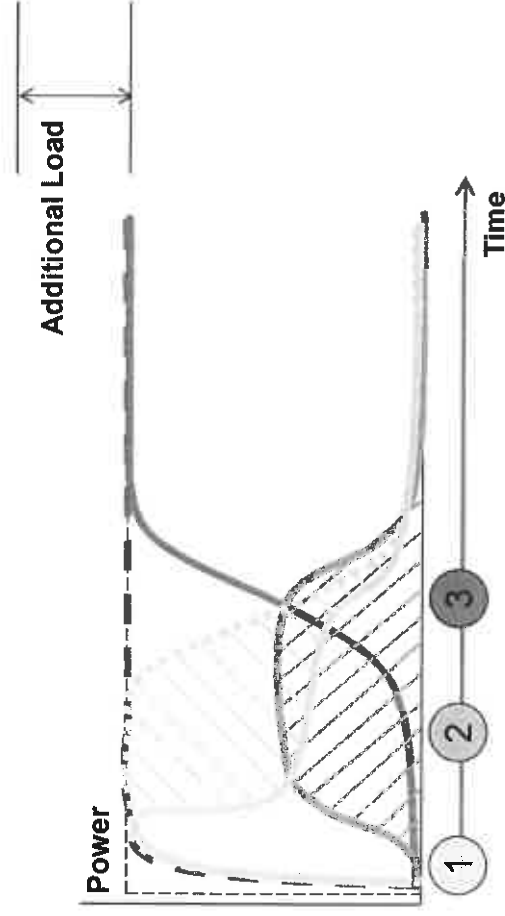


Frequency Response including P3000 Condensate Throttling (Efficiency):

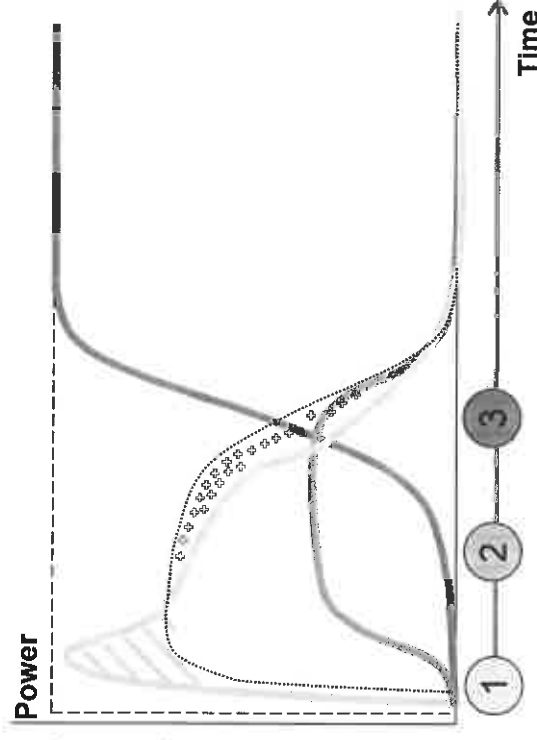


Let P3000 Condensate Throttling increase your profitability by providing state-of-the-art frequency response (3/3)

Frequency Response including P3000 Condensate Throttling (Efficiency):



Frequency Response including P3000 Condensate Throttling (Load Additional):



SPPA-P3000 Minimum Load Reduction Reduced minimum load level

Task

To upgrade the plant so that the specified minimum load level can be reduced and to make the plant capable of fast and low-stress load increases on demand in accordance with market requirements.

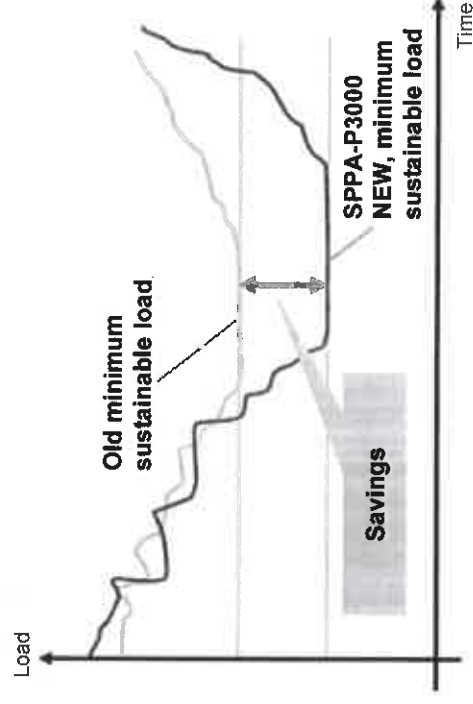
Solution

- Use of robust state space controller for unit control
- Adaptation, optimization and setting of lower-level controls for new minimum load level
- Adaptation or addition of control sequences, burner and mill scheduler
- Provision of additional instrumentation where necessary

Benefit e.g. 500,000 €/a → Benefit calculation

- Reduced financial losses during off-peak periods
- Faster response to increased load demands as unit does not need to be shut down
- Avoidance of unnecessary startups and shutdowns

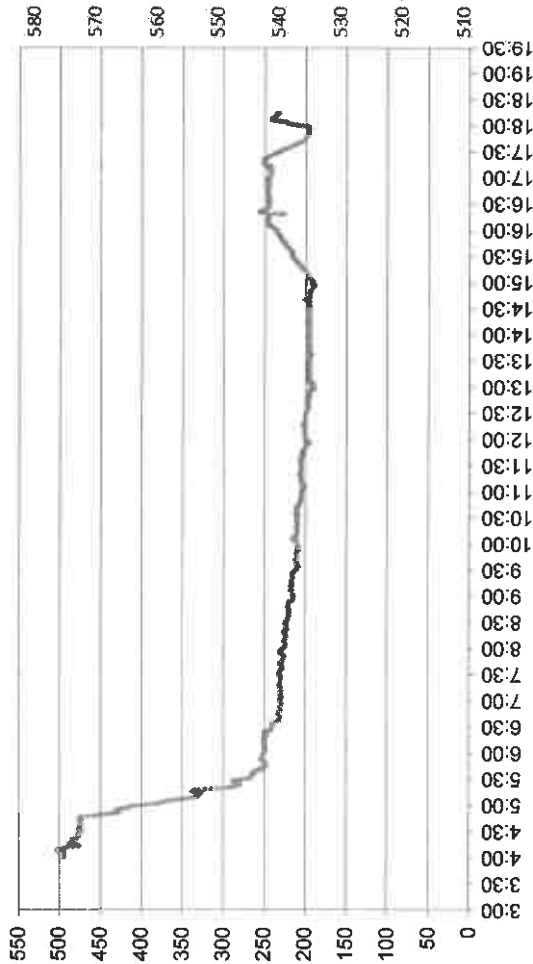
Minimum Load Reduction



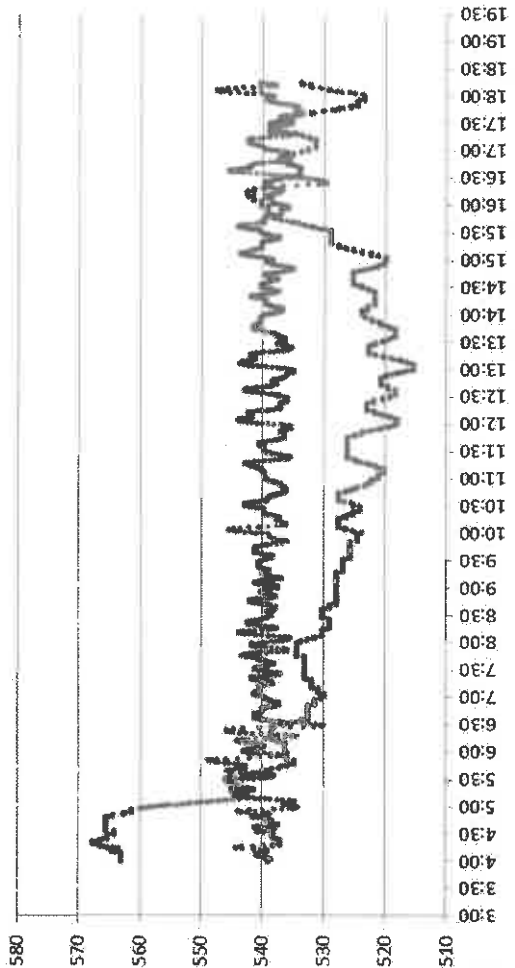
The Minimum Load Reduction solution results in savings for minimum load operation through optimization of lower-level controls.

40% Technical Minimum is Possible

UNIT LOAD



MS TEMP & RH TEMP

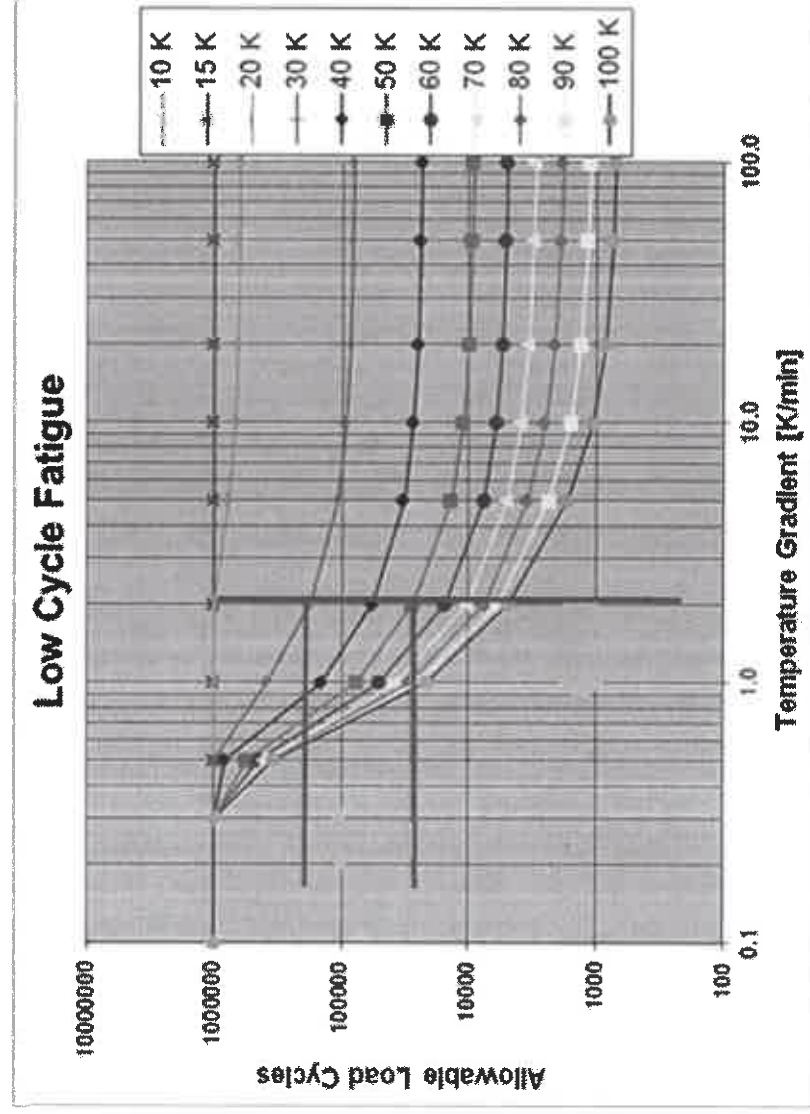


Cond.	M %	Ash%	C %	H %	N %	S	O %
Air dried	4.03	37.29	43.63	3.26	1.01	0.35	10.43

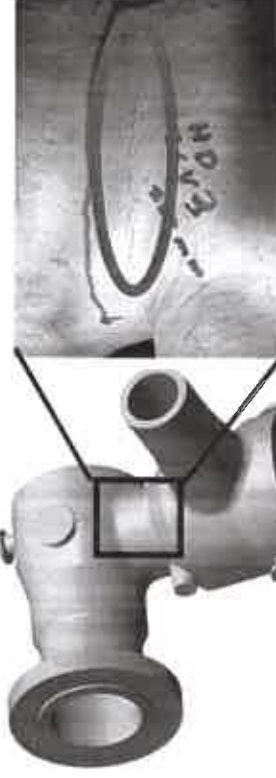
GCV (kcal/kg)	VM%	Ash %
3000	22%	35%



Transient Operation (Ramp Up / Ramp Down) increased temperature gradient results increased life consumption



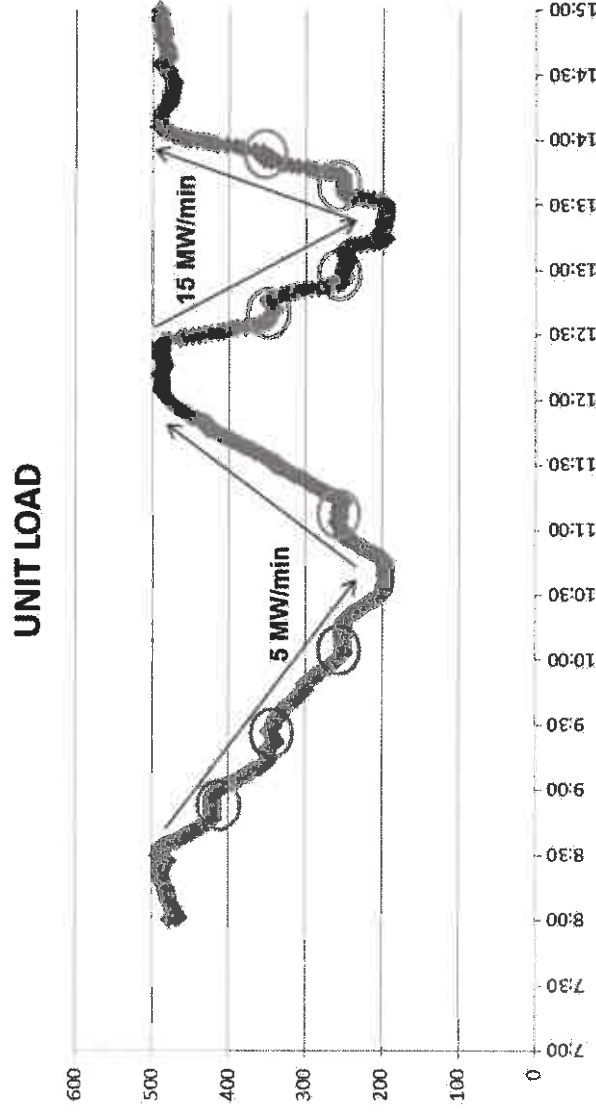
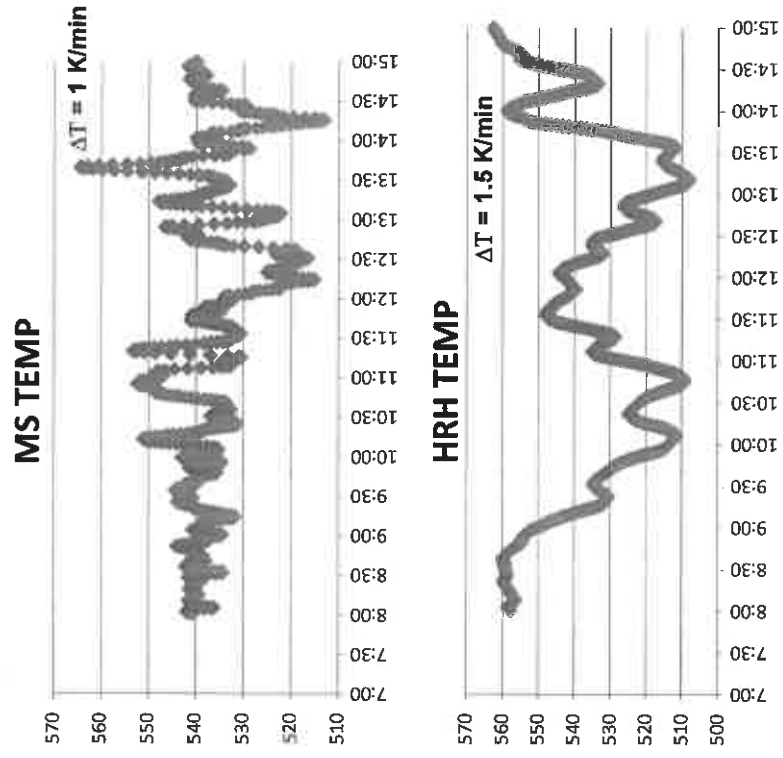
Main steam valve



Crack depth: 50%
wall thickness



Influence on Ramps on Temperature Transient



SPPA-P3000 Temperature Optimizer Increased steam temperatures

Task

To achieve maximum steam temperature without violation of material limits

Solution

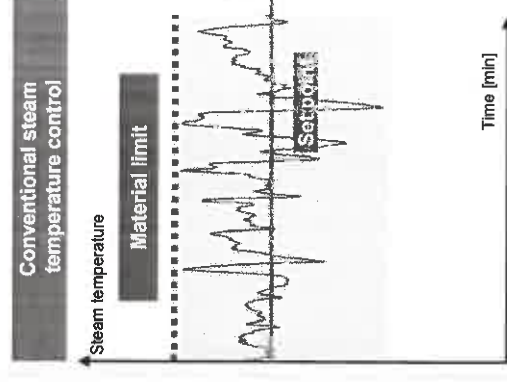
- Robust, easy to parameterize and adaptive state space controller with observer
- Where needed, use of entire control range through to injection into saturated steam
- Use on startup/shutdown and over the entire load range
- Use of flue gas recirculation and biflux or triflux valves to control reheat steam temperature

Benefit, e.g. 180,000 €/a → Benefit calculation

Increased efficiency thanks to

- Higher steam temperatures
- Reduction in reheater attemperation

Temperature Optimizer



The Temperature Optimizer solution increases the efficiency through higher steam temperatures and the use of appropriate control elements for reheater temperature.

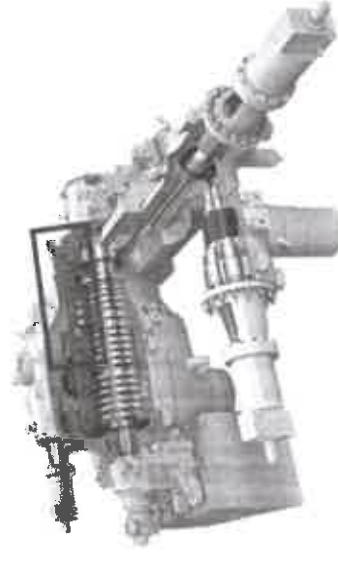
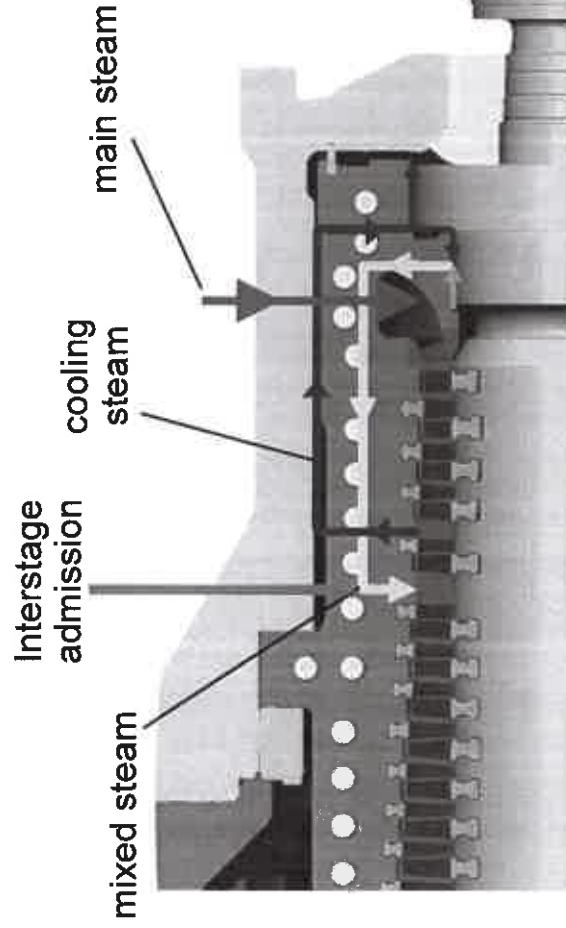
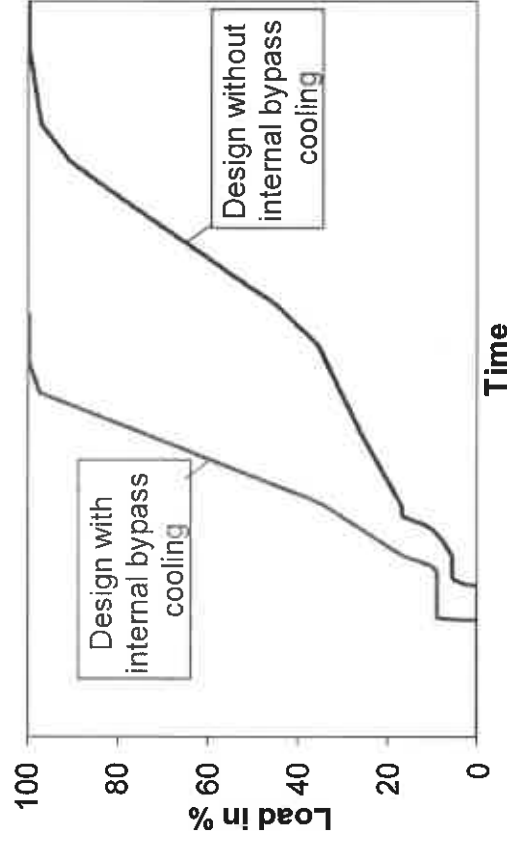


Power on Demand

Reduction of Wall Thickness to Improve Start Up & Cycling Capabilities

Example: Reduced Casing thickness & reduced thermal piston loading by HP bypass cooling

Significant improvement in LCF



Power Generation Services



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Page 13 19.03.2019

Sandeep Chittora

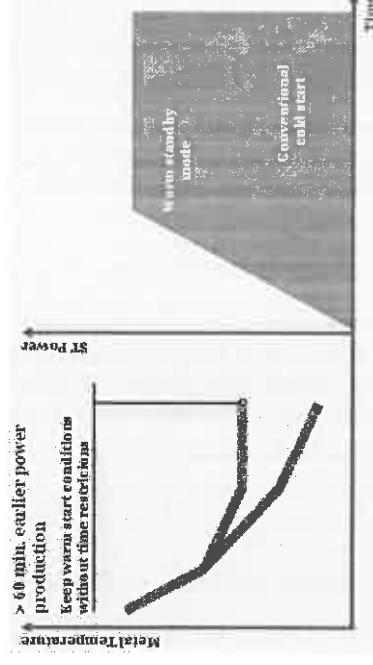
Measures to improve transient operation ST Warm Standby Operation to prepare for fast start-up

Technology

- Electrical heating system for ST in turning gear
- Maintains rotor shaft temperature at warm startup conditions

Benefit

- Significant reduction of startup time
 - > 60 min. earlier power production
- Reduction of EOH consumption per start
- Less energy is bypassed to condenser
 - Reduced costs per start up

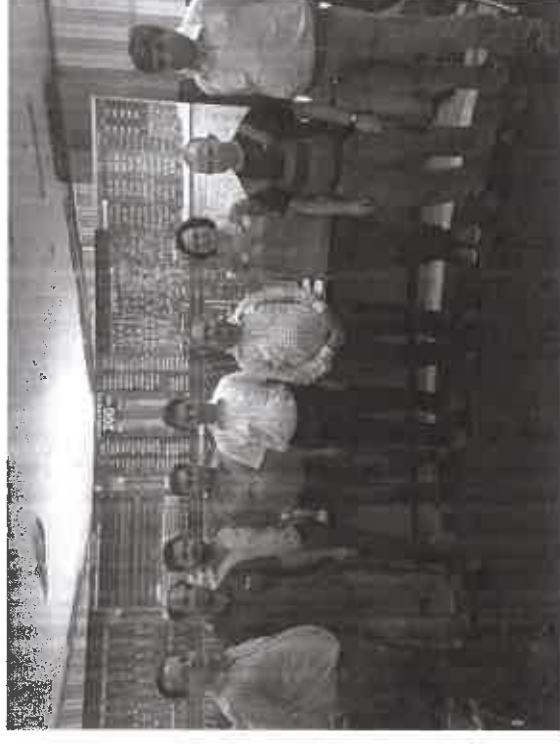


Electric heating coils to keep HP/ IP Turbine casing and shaft in warm start conditions



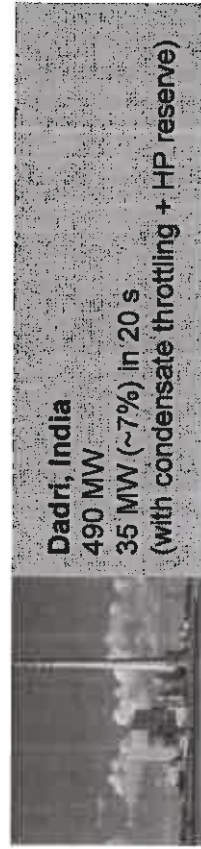
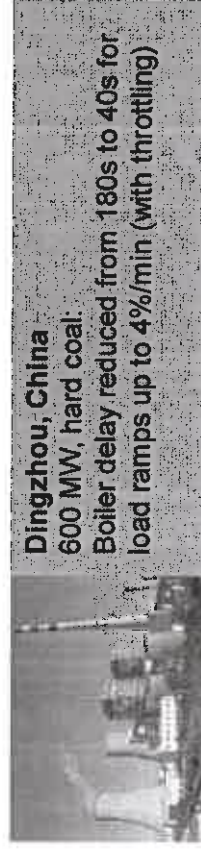
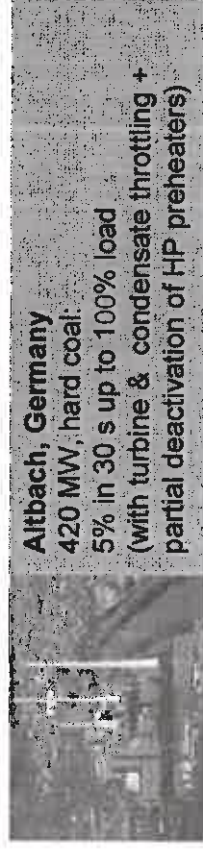
Key Takeaway

- Lower Technical Minimum is better operation than two shift operation
- Subcritical fleet is more suitable for flexible operation with respect to loss in performance
- Lower Technical Minimum with advanced control systems is possible, unit specific changes needs to be applied
- Means of improving part load efficiency by upto 1% are available
- Maintenance planning is to be adapted based on actual life consumption during flexible operation
- Thermal power utilities will play a key role in Indian grid for renewable grid



Further I&C solutions for flexible operation Selected references

Frequency & Dispatch Control



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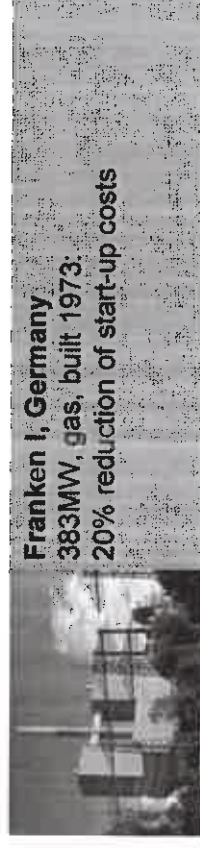
19.03.2019



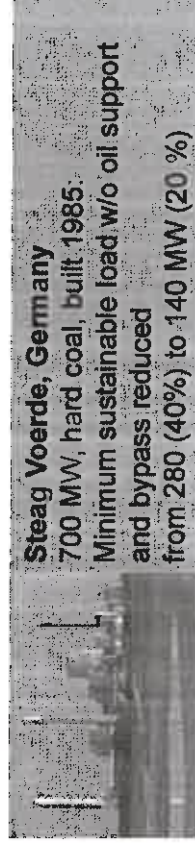
Sandeep Chittora

Power Generation Services

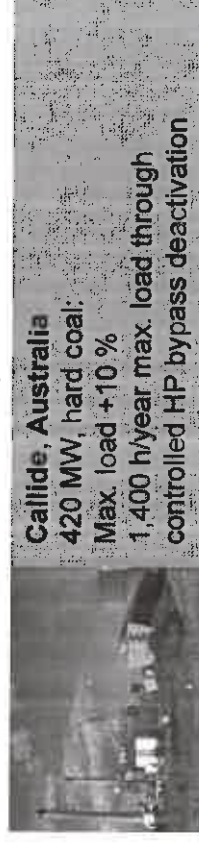
Reliable and efficient start-ups



Reduced minimum load



Increased Maximum Load





भारत सरकार

Government of India

केन्द्रीय विद्युत प्राधिकरण

I.S.O.: 9001: 2015

Central Electricity Authority

तापीय परियोजना नवीनीकरण एवं आधुनिकीकरण प्रभाग

Thermal Projects Renovation & Modernisation Division



4th MoU between CEA and JCOAL signed on 16th Dec, 2019

**Quarterly Review Report
Renovation & Modernisation of Thermal Power Stations**

Quarter: July-Sept., 2020



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	Unit-1-3(660x3 MW) TSPL		De-NOx: complying with the norm of 450 mg/Nm ³ .
10	Nabha Power Ltd, Rajpura, Punjab	31.12.2019	FGD: Bid awarded. ESP: Statutory limits being complied. De-Nox: complying with the norm of 450 mg/Nm ³ .
11	Unit-1-2(700x2 MW) GMR		
	GGSTP Ropar (4x210 MW) PSPCL	31/12/2019	FGD: NIT issued. ESP: Statutory limits being complied. De-NOx: NOx values are below specified limits
	Total	12790 MW	

7.0 Flexible Operation of Thermal Power Stations

India's Intended Nationally Determined Contributions (INDCs) include a reduction in the emissions intensity of its GDP by 33 to 35 percent by 2030 from 2005 level, and to create an additional carbon sink of 2.5 to 3 billion tonnes of CO₂ equivalent. Generating power from renewable sources of energy is of cardinal importance if India is to meet its INDC targets. With the aim to ensure future security & reliability of power supply and stability of electricity grids while maximizing generation from renewables flexibilization of existing coal-fired power plants is an important measure.

7.1 A committee has been constituted in CEA to find out the level of flexibilization required from thermal power stations and future roadmap for integration of 175 MW RES generation into Indian grid by 2022. The committee has come up with the findings of the quantum of flexibilization, minimum thermal load, and ramp rate required in its interim report in June 2018. The final report of the committee was released by Secretary (Power) on 18th March 2019. The report has been shared with the stakeholders of power sector. A pilot test of 40% minimum load operation and 3% ramp up/ ramp down (i.e. 15 MW/ Min) has been successfully conducted in Dadri TPS of NTPC. Study at Anpara-B TPS of UPRVUNL and Vindhyachal TPS of NTPC was conducted by JCOAL to improve the flexibility of the plants.

7.2 Another committee headed by Chief Engineer (TPRM), CEA was constituted to oversee the implementation of measures for flexible operation of TPPs on the basis of the pilot test. Based on the findings of CEA's flexibilisation report, the committee shall identify the thermal units in consultation of State/ Central utilities for the flexibilisation. The identified units shall undergo the pilot tests to ascertain their capability, do gap analysis and carryout modifications, if required. BHEL has conducted flexible operation pilot tests at Mauda TPS of NTPC and Sagardighi TPS of WBPCL. Another flexible operation study has been organized by CEA and carried out by BHEL at Ukai Thermal Power Station Unit # 6 (500MW), GSECL on 04.03.2020. Minimum load of 40% with ramp rate of 3% was successfully achieved.

The salient outcome of the pilot tests are as follows:

A) Mouda TPS, NTPC, Nagpur, Maharashtra:

- i) Test Date : 29-05-2019
- ii) Unit No. : 2
- iii) Capacity : 500 MW
- iv) Following tests were conducted:

<u>Test</u>	<u>Target</u>	<u>Achieved</u>
a. Minimum Load Test at 40%	200 MW	200 MW
b. Ramp Test (3%)	3%/ min	~1.1%/min



c. Ramp Test (1%) 1%/ min ~0.55%/min

The list of important parameters was logged and taken by BHEL for further analysis and recommendation. The final analysis and recommendations are under finalization with BHEL.

B) Sagardighi TPS, WBPCL, Musheerabad, West Bengal:

- i) Test Date : 27-06-2019
- ii) Unit No. : 3
- iii) Unit Capacity : 500 MW
- iv) Following tests were conducted:

<u>Test</u>	<u>Target</u>	<u>Achieved</u>
a. Minimum Load Test at 40%	200 MW	200 MW
b. Ramp Up Test (3%)	3%/ min	~1.6%/min
c. Ramp Down Test (3%)	3%/ min	~2.6%/min
d. Ramp UpTest (3%)	1%/ min	~1.1%/min
e. Ramp Down Test (3%)	1%/ min	~0.67%/min

The flexibilisation test was conducted by BHEL team and was witnessed by representative from TPRM Division, CEA. BHEL will submit the detailed report after analyzing the test result.

C) Vindhyachal STPS, NTPC, Singrauli, Madhya Pradesh :

JCOAL selected NTPC's Vindhyachal Super Thermal Power Station (VSTPS) for flexibilisation study, based on the recommendation of Ministry of Power and Central Electricity Authority. JERA Co., Inc and Mitsubishi Research Institute, Inc have investigated concerning improvement of operational flexibility of No.11 unit

- i) Test Date : 06-03-2019
- ii) Unit No. : 11
- iii) Capacity : 500 MW
- iv) Following tests were conducted:

<u>Test</u>	<u>Target</u>	<u>Achieved</u>
a. Minimum Load Test at 40%	200 MW	275 MW
b. Ramp Up Test (3%)	3%/ min	~1.25%/min
c. Ramp Down Test (3%)	3%/ min	~1.67%/min
d. Ramp UpTest (3%)	1.5%/ min	~1.0%/min
e. Ramp Down Test (3%)	1.5%/ min	~0.7%/min



Purchase Order Document

Annexure 8

PO No: Dahej GEN/O&M/40226/3110001802

PO Date: 08.08.2024

Currency: INR

SOLEX ENERGY LIMITED,
Plot No131/A, Solex Energy Limited,
GIDC, Estate, V U Nagar, Anand,, Gujarat-388121,
Gujarat, India.
Tel-No: 9510777432
E-mail: yash.g@solex.in
GSTIN NO.: 24AAVCS0328R1ZN

Dear Sir,

Please supply material in accordance with conditions given in the order. In case of any inconsistency between the conditions stated below and standard terms & conditions given at the end of this order, the conditions stated below will prevail. Kindly specifically refer and comply Important note as mentioned.

SR NO	Item & Description	QTY	UOM	Rate	Per	Value	Sch Qty	Sch Date
1	670kW RCC rooftop solar	1.000	AU	13,124,615.00	1	13,124,615.00	1.000	Before 31.03.2025

Additional Specification Building wise rate bifurcation for supply:

01UAB = 70 KWp = Rs. 13,52,400
01UGU = 118 KWp = Rs. 23,04,540
00UGF = 244 KWp = Rs. 46,45,760
00UCA = 80 KWp = Rs. 16,10,000
03 UEN CNT room = 45 KWp = Rs. 9,05,625
02USV = 33 KWp = Rs. 6,90,690
Admin = 40 KWp = Rs. 8,07,800
Entry gate = 40 KWp = Rs. 8,07,800

Total 670 KWp = Rs. 1,31,24,615
IGST 12%

2	Installation and commissioning	1.000	AU	5,624,835.00	1	5,624,835.00	1.000	Before 31.03.2025
---	--------------------------------	-------	----	--------------	---	--------------	-------	-------------------

Additional Specification Building wise rate bifurcation for Installation and Commissioning:

01UAB = 70 KWp = Rs. 5,79,600
01UGU = 118 KWp = Rs. 9,87,660
00UGF = 244 KWp = Rs. 19,91,040
00UCA = 80 KWp = Rs. 6,90,000
03 UEN CNT room = 45 KWp = Rs. 3,88,125
02USV = 33 KWp = Rs. 2,96,010
Admin = 40 KWp = Rs. 3,46,200
Entry gate = 40 KWp = Rs. 3,46,200

Total 670 KWp = Rs. 56,24,835
IGST 18%

3	30kW Metal rooftop solar	1.000	AU	619,500.00	1	619,500.00	1.000	Before 31.03.2025
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Additional Specification Rate bifurcation for Supply :

DGEN MEGA POWER PROJECT
CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J2ZB
Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
Dist: Bharuch - 392130. Phone: 02641 61200 Fax: 02641 612008

Amd No: 0

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Purchase Order Document

PO No: Dahej GEN/O&M/40226/3110001802
PO Date: 08.08.2024
Currency: INR

SR NO	Item & Description	QTY	UOM	Rate	Per	Value	Sch Qty	Sch Date
	Canteen = 30 KWp = Rs. 6,19,500							
	Total = Rs. 619,500							
	IGST 12%							
4	Installation & commissioning	1.000	AU	265,500.00	1	265,500.00	1.000	Before 31.03.2025

Additional Specification Rate bifurcation for Installation and Commissioning :

Canteen = 30 KWp = Rs. 2,65,500

Total = Rs. 2,65,500

IGST 18%

Order Value: 19,634,450.00

Price: Firm & FOR DGEN, DAHEJ

Packing & Forwarding: Inclusive

Payment : 30 days credit from the date of receipt of material

Terms of Payment: 70 % Payment on pro data basis upon Receipt of material at Site as per mutual agreed Milestone within 30 days

20% on issuance of commissioning certificate within 30 days Including CEIG.

10 % after from month of commissioning within 30 days

Bank Guarantee:

20% Bank Guarantee to be return @4%/year basis till 5 years.

Liquidated Damages (LD): In the event of supplies / services being delayed beyond scheduled date, the LD @ 1.00 % per Week delay for each calendar week of delay or part thereof and subject to maximum of 10.00 % of Order Value of Delayed Qty will be applicable. Taxes, if applicable, will be payable by the supplier/ Contractor in addition to Liquidated Damages. Schedule date indicated above is the date by which materials should be received at TPL Store / Site or services to be completed as the case may be. Any delay beyond the scheduled date will attract Liquidated Damages as per Liquidated Damages terms.

Penalty Text: PR guarantee= Min 80%

PR will be measure at every 6 monthly basis upto 5 year. If it is less than 80%, correction to be completed within 10 days else, Penalty from date Measurement to date of Correction will be deducted based on generation loss @ Rs. 6 /Unit. (Degradation will be consider)

Guarantee: 60 months from the date of commissioning.

Special Note: Any defects noticed during guarantee period should be rectified / replaced free of cost. Where replacement is involved to and fro freight charges etc., will be to your account. The replaced item should have a guarantee of six months from date of replacement or the remaining period of main guarantee, which ever is later.

Warranties / Guarantee: Panel- 30 years
Inverter- 7 years
structure- 2 years
other- 2 year

Performance Guarantee: You will submit performance bank guarantee from (a) a Public Sector Bank or (b) a Scheduled Indian Bank (except bank from co-operative sector) acceptable to us for 20.00 % of total order value along with supply valid upto 90 days beyond the actual completion of guarantee period, otherwise 20.00 % will be deducted from the invoices on pro-rate basis

DGEN MEGA POWER PROJECT
CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J2ZB
Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
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Amd No: 0

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Purchase Order Document

PO No: Dahej GEN/O&M/40226/3110001802

PO Date: 08.08.2024

Currency: INR

Additional Terms:

till the submission of PBG.

Boarding, Lodging, Food, Accommodation, Travelling, Transportation within the site or outside, and incidental expenses for vendor appointed manpower shall be in your scope.

If any Tools & Tackles, machinery, labor, equipment & material required shall be in your scope only.

Work to be carried out as per instruction and HSSE guidelines by TPL.

WC Policy and PF allotment letter shall be provided.

Medical fitness certificate shall be provided.

RT PCR test: Supplier shall be responsible for RTPCR test of its commissioning team, if applicable.

Insurance: Till commissioning, in scope of contractor only

Water, Electricity & Storage: To be provided by TPL at single location near to site. Contractor must arrange to take it from that location to work site.

Electricity to be provided: 3 phase, 63-amp Single point only Storage: for small material like inverter, tools only. Formodule you have to kept at site only at all risk to contractor.

Module Cleaning System: Included in the above cost. Water supply line nearby locations provided by TPL.

Documentation: Test & Warranty Certificate, Invoice with detailed bill of material & E way bill, O&M manual, maintenance manual, etc.

There will be no separate cost on account of Mobilization, demobilization, Idle charges etc.

I & C Cost: Inclusive of "Installation & Commissioning Supervision" services If any Tools & Tackles, machinery, labor, equipment & material required shall be in your scope only. Work to be carried out as per instruction and HSSE guidelines by TPL.

subjected rate is inclusive of spares for the subjected project as per list provided.

General scope of work/terms and conditions/BOQ as per Annexure-1.

Location wise BOQ and scope of work/terms and conditions as per Annexure-2.

Spares list as per Annexure-3.

Additional to supplier:

TPL Engineer's contact details for DGEN Location:

Mr. Umang Thaker- 92274 10154

Mr. Arif Malek- 92274 10183



DGEN MEGA POWER PROJECT

CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J22B

Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
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Purchase Order Document

PO No: Dahej GEN/O&M/40226/3110001802

PO Date: 08.08.2024

Currency: INR

Important Note for Supply of Materials in SEZ:

Note 1 - As Torrent Power Limited - DGEN Mega Power Project falls under the territory of SEZ, It is mandatory to endorse/stamp all incoming materials by SEZ. In view of this, please ensure that all Inward material Invoice is stamped at SEZ Security entry gate before delivery to DGEN site. We are not responsible for non-acceptance of materials at our site / non-payment of dues due to non-availability of SEZ Inward Stamp on Invoice. Accordingly, you are requested to send one additional copy of invoice with courier agency / carrier agency / Goods Transport Agency for making Inward stamp by the said agency on Invoice at SEZ Security entry Gate before delivery to our DGEN site. Also note that all material invoice shall be with applicable IGST and Tax Invoice.

Note 2 - Any increase in rates of taxes & duties after placement of order, which becomes leviable during the execution of the Purchase Order / Contract, shall be borne by the Company If it is extra at actual or else if it is inclusive then the same shall be borne by the Supplier / Contractor. However, in the case of delay in delivery attributable the Supplier / Contractor, any increase in the taxes & duties etc. shall be borne by the Supplier / Contractor. But, in the case of delay in delivery not attributable solely to the Company or to the Supplier / Contractor, any increase in the taxes & duties shall be shared between the Company & Supplier / Contractor.

TCS Applicable and consequence:

According to section 206C(1H) of Income Tax Act, suppliers may levy TCS on their sales consideration as per the applicable rates enacted under the Income Tax Act.

The supplier has to deposit the collected TCS amount to government and amounts should get reflected in returns filed and certificates issued in stipulated time as prescribed under the Act. In absence, Torrent Power Limited has right to recovery TCS loss along with consequential interest and penalty or deduct the amount equivalent to the said liabilities from their outstanding payment. Ensure to mention correct PAN [AACCT0294J] for all the above compliances.

This is a computer generated document not requiring any signature.



DGEN MEGA POWER PROJECT

CIN NO. L31200GJ2004PLC044068 PAN No.: AACCT0294J, 24AACCT0294J2ZB

**Torrent Power Limited, Dahej SEZ Part -1, Dahej, Tal: Vagra,
Dist: Bharuch - 392130. Phone: 02641 61200 Fax: 02641 612008**

Amd No: 0

PO Document : 3110001802

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**CENTRAL ELECTRICITY REGULATORY COMMISSION
NEW DELHI**

Petition No. 270/GT/2019

Coram:

**Shri P.K. Pujari, Chairperson
Shri I.S. Jha, Member**

Date of Order: 13th July, 2020

In the matter of

Petition for revision of tariff of SUGEN Power Plant (1147.5 MW) for the period from 1.4.2014 to 31.3.2019 after true-up exercise

AND

In the matter of

Torrent Power Ltd
Torrent House, Off Ashram Road,
Near Income Tax Circle,
Ahmedabad - 380009

...Petitioner

Vs

1. Torrent Power Ltd (Ahmedabad Distribution)
Electricity House, Lal Darwaja,
Ahmedabad - 380001

2. Torrent Power Ltd (Surat Distribution)
Torrent House, Station Road,
Surat - 395003

3. PTC India Ltd.
2nd floor, NBCC Tower,
Bhikhaji Cama Place,
New Delhi - 110066

4. Madhya Pradesh Power Management Co. Ltd.
Shakti Bhavan, Vidyut Nagar,
Jabalpur - 482008

...Respondents

Parties Present:

Ms. Swapna Seshadri, Advocate, TPL
Ms. Deepa Chawan, Advocate, TPL
Shri Damodar Solanki, Advocate, TPL
Shri Lalit Vashisth, TPL
Shri Vihar Patel, TPL
Shri N.K. Joshi, TPL
Shri Ravi Kishore, Advocate, PTC
Shri Ravindra Khare, MPPMCL



Rs.80.66 lakh towards the procurement of 'new vehicles' is allowed for the purpose of tariff as the same was necessary due to obsolescence of the old vehicles taken out from service. The de-capitalization of the amount towards 'old vehicles' has been dealt with under the head 'Deletions'.

22. The Petitioner has claimed additional capitalization of Rs.86.87 lakh towards 'Plant and Machinery' under Regulation 14(3)(i) read with Regulation 14(3)(vii) of the 2014 Tariff Regulations. The assets claimed under these regulations have been categorized as 'Solar Power Roof Top System', 'PSA Nitrogen Gas Plant' and 'Automated Fire Fighting System'.

23. As regards the claim for additional capitalisation of Rs.35 lakh towards installation of 'Solar Power Roof Top System', the Petitioner has submitted as follows:

"Solar Power Roof Top System for Rs.35 lacs which has resulted into reduction of auxiliary consumption and benefits to beneficiaries in terms of sharing of ECR gain"

It is pertinent to mention that the energy generated from Solar Power Roof Top System installed at the generating station would meet some of the auxiliary energy requirements of the generating station and to that extent, the ex-bus energy available to the beneficiaries would increase. Considering the resolve of the Central Government to promote renewable energy and in terms of Regulation 8(6) of the 2014 Tariff Regulations which provide for sharing of gains in respect of variation of Auxiliary Energy consumption (by way of lower ECR because of lower auxiliary consumption in comparison to normative auxiliary consumption), we allow the additional capital expenditure of Rs.35 lakh incurred by the Petitioner towards the installation of Solar Power Roof Top System.



ખેતી વિષયક તથા બિનખેતી વિષયક હેતુ માટે જળાશયો, નહેરો, નાળાં, ચેકડેમ્સ વિગેરેમાંથી અપાતા પાણીના દરો બાબત.

ગુજરાત સરકાર
નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગ,
ઠરાવ ક્રમાંક: NWRWSKD/RWR/e-file/13/2022/9468/Section P (Water Planning)
સચિવાલય, ગાંધીનગર

વંચાણે લીધા:-

નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગનો ઠરાવ ક્રમાંક: ડબલ્યુટીઆર/૨૦૦૫/૪૧/પી, તા.૦૩/૦૨/૨૦૦૭

આમુખ:-

રાજ્યના જળ સંપત્તિ વિભાગ હેઠળના સિંચાઈ જળાશયો, નહેરો, નોટિફાઈડ નદીઓ વગેરેમાંથી ખેતી વિષયક હેતુઓ અને બિનખેતી વિષયક હેતુઓ માટે અપાતા પાણીના દર અને તેની શરતો તા.૦૩/૦૨/૨૦૦૭ના ઠરાવ ક્રમાંક: ડબલ્યુટીઆર/૨૦૦૫/૪૧/પી અન્વયે નક્કી કરવામાં આવેલ છે. જેમાં જોગવાઈ (બ) બિનખેતી વિષયક અથવા સિંચાઈ સિવાયના અન્ય હેતુઓ માટે જળાશયો, નહેરો, પાતળકુવા, નોટિફાઈડ નદીઓ તથા નાળામાંથી પાણી પુરૂ પાડવા અંગેના દરોની શરત નં.(૧) અને (૨) અનુસાર પીવાના તેમજ ઔદ્યોગિક હેતુસર અપાતા પાણીના દરમાં પ્રતિ નાણાકીય વર્ષે ૧૦%ના ધોરણે ઉત્તરોત્તર વધારો કરવાનું પ્રાવધાન અમલમાં છે.

પાણીના દરોનું હયાત માળખું અને ભાવ વધારો કરવાની જોગવાઈ અનુસાર છેલ્લા પંદર વર્ષથી સતત ભાવવધારો અમલમાં છે. ઉક્ત ઠરાવ અનુસાર પાણીના દરોમાં પ્રતિ નાણાકીય વર્ષે ૧૦%ના ધોરણે ઉત્તરોત્તર વધારો થતાં વર્ષ ૨૦૨૩-૨૪માં પીવાના હેતુસર પાણીના દર પ્રતિ ૧૦૦૦ લિટરે રૂ.૫.૦૫/- તથા ઔદ્યોગિક હેતુસર પાણીના દર પ્રતિ ૧૦૦૦ લિટરે રૂ.૪૧.૭૭/- તા.૦૧/૦૪/૨૦૨૩થી અમલમાં છે. સરદાર સરોવર નર્મદા નિગમ લિમિટેડ હેઠળ ઔદ્યોગિક વપરાશ તથા પીવાના પાણી માટેના દરો તથા તેમાં વાર્ષિક દરોનો થતો ઉત્તરોત્તર વધારો પણ ઉપર મુજબ જળ સંપત્તિ વિભાગના દરો મુજબ જ છે.

વધુમાં, ગુજરાત પાણી પુરવઠા અને ગટર વ્યવસ્થા બોર્ડ કે જે જળ સંપત્તિ વિભાગ પાસેથી પાણી લઈ જરૂરી ઉદ્યોગોને પાણી પુરૂ પાડે છે. તેઓ દ્વારા પાણીના વહન, યોજનાઓના મરામત, નિભાવ અને સંચાલન ખર્ચને ધ્યાને લઈ વર્ષ ૨૦૨૩-૨૪ માટે તેઓના ઔદ્યોગિક વપરાશ માટે પાણીના દર રૂ. ૫૬.૫૮ પ્રતિ ૧૦૦૦ લીટર નક્કી થયેલ છે.

હાલની સ્પર્ધાત્મક પરિસ્થિતિમાં બિનખેતી વિષયક હેતુ (ઔદ્યોગિક અને પીવાના હેતુસર) પાણીના દરોમાં પ્રતિ નાણાકીય વર્ષે ઉત્તરોત્તર ૧૦%ના ધોરણે થતા ભાવ વધારાની સમીક્ષા કરવાની બાબત સરકારશ્રીમાં વિચારણા હેઠળ હતી.

ઠરાવ:-

સરકારશ્રી દ્વારા પુખ્ત વિચારણાને અંતે આથી ઠરાવવામાં આવે છે કે,

- જળ સંપત્તિ પ્રભાગના વંચાણે લીધા તા.૦૩/૦૨/૨૦૦૭ના ઠરાવ ક્રમાંક: ડબલ્યુટીઆર/૨૦૦૫/૪૧/પી અન્વયે ઔદ્યોગિક વપરાશ તથા પીવાના પાણી માટે અપાતા દરોમાં ૧૦% ઉત્તરોત્તર ભાવ વધારો થાય છે તેને ઘટાડીને નાણાકીય વર્ષ ૨૦૨૩-૨૪ના તા.૦૧/૦૮/૨૦૨૩થી અમલમાં આવે તે રીતે વર્ષ ૨૦૨૩-૨૪ માટે અને ત્યારબાદ દરેક નાણાકીય વર્ષે ઉત્તરોત્તર ૩% ભાવ વધારો ઔદ્યોગિક તથા પીવાના પાણીના દરોમાં કરવાનો રહેશે. સરદાર સરોવર નર્મદા નિગમ લિમિટેડ હેઠળ ઔદ્યોગિક વપરાશ તથા પીવાના પાણી હેતુ આપવામાં આવતા પાણીના દરો તથા દરોમાં થતો વાર્ષિક વધારો જળ સંપત્તિ વિભાગ મુજબ જ હોઈ, તેમાં પણ દર વર્ષે ૩%નો ઉત્તરોત્તર વધારો કરવાનો રહેશે. પાણી



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Approved By: Mahesh R Patel (Chief Eng and Additional Sec, CE_SG, N)

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પુરવઠા પ્રભાગ હેઠળ પણ હાલના તેઓના નિયત દરોમાં નાણાકીય વર્ષ ૨૦૨૩-૨૪ના તા.૦૧/૦૮/૨૦૨૩થી અમલમાં આવે તે રીતે વર્ષ ૨૦૨૩-૨૪ માટે અને ત્યારબાદ દરેક નાણાકીય વર્ષે ઉત્તરોત્તર ૩% ભાવ વધારો ઔદ્યોગિક તથા પીવાના પાણીના દરોમાં કરવાનો રહેશે. (રિવાઈઝડ દરોનું પત્રક આ સાથે એનેક્ષરમાં સામેલ છે.)

૨. સામાન્ય વહીવટ વિભાગના ઠરાવ ક્રમાંક: GAD/MSM/e-file/1/2023/0574/ARTD-1, તા.૦૪/૦૨/૨૦૨૩ના સનસેટ કલોઝની જોગવાઈ મુજબ પાણીના દરોની પુનઃસમીક્ષા તા.૩૧/૧૨/૨૦૨૭ બાદ અથવા આકસ્મિક સંજોગો નિર્માણ થયે, બન્નેમાંથી જે વહેલું હોય તે મુજબ કરવામાં આવશે.

૩. વિભાગના વંચાણે લીધા તા.૦૩/૦૨/૨૦૦૭ના ઠરાવ તથા વખતોવખત તેને સંલગ્ન સુધારા ઠરાવ/પરિપત્રની અન્ય જોગવાઈઓ/શરતો ચથાવત રહેશે.

આ હુકમો વિભાગની સરખા ક્રમાંકની ઈ-ફાઈલ ઉપર નાણા વિભાગની તા.૨૫/૦૮/૨૦૨૩ની નોંધથી મળેલ સંમતિ અનુસંધાને પ્રસિદ્ધ કરવામાં આવે છે.

ગુજરાતના રાજ્યપાલશ્રીના હુકમથી અને તેમના નામે,

%બિડાણ:-ઉપર મુજબ

(અચ.જે.પટેલ)

ઉપસચિવ(જળ સંપત્તિ)

નર્મદા,જળસંપત્તિ,પાણી પુરવઠા અને કલ્પસર વિભાગ

પ્રતિ,

- નામદાર રાજ્યપાલશ્રીના સચિવશ્રી, રાજલવન, ગાંધીનગર
- માનનીય મુખ્યમંત્રીશ્રીના અગ્ર સચિવશ્રી, સચિવાલય, ગાંધીનગર.
- તમામ માનનીય મંત્રીશ્રીઓના અંગત સચિવશ્રીઓ, સ્વર્ણિમ સંકુલ-૧, ગાંધીનગર.
- તમામ માનનીય રાજ્ય કક્ષાના મંત્રીશ્રીઓના અંગત સચિવશ્રીઓ, સ્વર્ણિમ સંકુલ-૨, ગાંધીનગર.
- માનનીય વિરોધપક્ષના નેતાશ્રીના અંગતસચિવશ્રી, ગુજરાત વિધાનસભા, ગાંધીનગર.
- વહીવટી સંચાલકશ્રી, સરદાર સરોવર નર્મદા નિગમ લિમિટેડ, બ્લોક નં.૧૨, સચિવાલય, ગાંધીનગર.
- અગ્ર સચિવશ્રી, ગુજરાત પાણી પુરવઠા અને ગટર વ્યવસ્થા બોર્ડ, સેક્ટર-૧૦, ગાંધીનગર.
- અગ્ર સચિવશ્રી, શહેરી વિકાસ અને શહેરી ગૃહ નિર્માણ વિભાગ, સચિવાલય, ગાંધીનગર.
- અગ્ર સચિવશ્રી, ઉદ્યોગ અને ખાણ વિભાગ, ગાંધીનગર.
- સચિવશ્રી (જ.સં.)ના અંગત સચિવશ્રી, સચિવાલય, ગાંધીનગર.
- ખાસ સચિવશ્રી (જ.સં.)ના અંગત સચિવશ્રી, સચિવાલય, ગાંધીનગર.
- વિકાસ કમિશનરશ્રી, ગુજરાત રાજ્ય, ગાંધીનગર.
- ઉદ્યોગ કમિશનરશ્રી, ગુજરાત રાજ્ય, ઉદ્યોગ ભવન, સેક્ટર-૧૧, ગાંધીનગર.
- માહિતી નિયામકશ્રી, માહિતી ખાતુ, ગુજરાત રાજ્ય, ગાંધીનગર (બહોળી પ્રસિદ્ધિ માટે)
- વહીવટી સંચાલકશ્રી, ગુજરાત ઔદ્યોગિક વિકાસ નિગમ, ઉદ્યોગ ભવન, સેક્ટર-૧૧, ગાંધીનગર.
- ખેતી નિયામકશ્રી, ગુજરાત રાજ્ય, કૃષિ ભવન, સેક્ટર-૧૦, ગાંધીનગર.
- એકાઉન્ટન્ટ જનરલશ્રી, ગુજરાત રાજ્ય, અમદાવાદ/રાજકોટ.
- નિયામકશ્રી, નગરપાલિકાઓ, ગુજરાત રાજ્ય, ગાંધીનગર.



- નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગના સર્વે મુખ્ય ઈજનેર અને અધિક સચિવશ્રીઓ સચિવાલય, ગાંધીનગર.
- નિયામકશ્રી, ગુજરાત ઈજનેરી સંશોધન સંસ્થા, વડોદરા.
- નિયામકશ્રી, જળ અને જમીન વ્યવસ્થાપન સંસ્થા, (વાલ્મી) ,આણંદ.
- વહીવટી સંચાલકશ્રી, ગુજરાત જળ સંપત્તિ વિકાસ નિગમ લિમિટેડ, ગાંધીનગર.
- મ્યુનિસિપલ કમિશનરશ્રીઓ, અમદાવાદ/રાજકોટ/સુરત/વડોદરા/જામનગર/ભાવનગર/જુનાગઢ
- તમામ કલેક્ટરશ્રીઓ
- તમામ જિલ્લા વિકાસ અધિકારીશ્રીઓ
- સચિવાલયના તમામ વિભાગો.
- નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગના સર્વે અધીક્ષક ઈજનેરશ્રીઓ (પંચાયત વર્તુળ સહિત)
(તેમના નિયંત્રણ હેઠળના સર્વે કાર્યપાલક ઈજનેરશ્રીઓને લેખિત સૂચના પાઠવીને આ ઠરાવનો અમલ કરવાની સૂચના પાઠવવા સાથે)
- નાણાં શાખા (જળ સંપત્તિ વિભાગ),બ્લોક નં-૯/૧, સચિવાલય,ગાંધીનગર.
- સિસ્ટમ મેનેજરશ્રી, નર્મદા, જળસંપત્તિ, પાણી પુરવઠા અને કલ્પસર વિભાગ, સચિવાલય ગાંધીનગર.
(આ ઠરાવ જળસંપત્તિ વિભાગની વેબસાઈટમાં મુકવાની ત્વરિત કાર્યવાહી થવા સાથે)
- સિલેક્ટ ફાઇલ.



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Signed by: Mahesh R Patel
Under Secret
Date: 2023.10.13
15:07:10

File No: NWRWSKD/RWR/e-file/13/2022/9468/Section P (Water Plan
Approved By: Mahesh R Patel(Chief Eng and Additional Sec,CE_SG,N

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