

25th National Award For Excellence in Energy Management 2024

WELCOME

TO ADTPS PRESENTATION

Ravi Patil - 9325119794
Suhas Patil - 9325119742

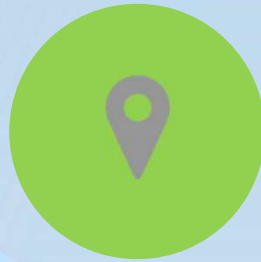


About us

Adani Dahanu Thermal Power Station



**2 X 250MW COMM.
YEAR - JAN/MAR 1995**



**LOCATION - 120 KMS FROM
MUMBAI 24 KMS FROM
NH8**



TOTAL LAND - 850.32 H



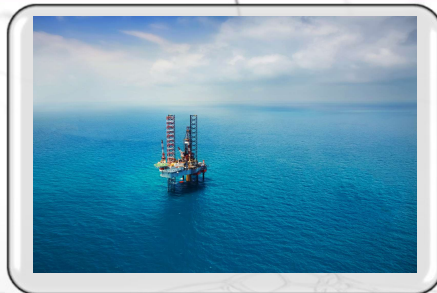
**SUPPLY POWER TO
MUMBAI**

Resources & its sustainability



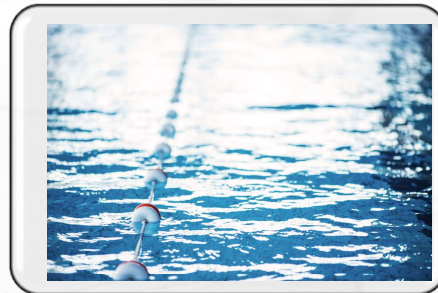
Coal

- FSA till 2029
- Qty 2.452 MMT
- Captive jetty - license up to 2032



Oil

- Per annum 450KL
- SOC Avg 0.14 ml/kwh
- Norm - 0.5 ml/kwh



Water

- Fresh Water from Kawdas Dam 30 Kms
- Sanction Qty- 5480 M3/Day
- Valid till 2026



Workforce

- Total Employees- 409 Nos
- Contract Workforce- 697 Nos

Current Year Performance

Key Performance Parameters	Indicator
Plant Load Factor (PLF)	78.46 %
Availability	91.88 %
Specific Oil consumption	0.171 ml/kwh
Aux Consumption without FGD	8.926 %
DM Consumption	0.398 %
Heat Rate	2268 Kcal/kwh

System Based Approach



01
Quality Management System
(ISO 9001:2015)

02
Asset Management System
(ISO 55001:2014)

03
Environment Management System
(ISO 14001:2015)

04
Energy Management System
(ISO 50001:2018)

05
Water Efficiency Management System
(ISO 46001:2019)

06
Occupational Health & Safety
(ISO 45001:2018)

07
Business Continuity Management System
(ISO 22301:2019)



08
Single Use Plastic Assessment

09
Social Responsibility
(ISO 26000 : 2010)

10
NABL Accreditation for coal testing laboratory
(ISO/IEC 17025:2017)

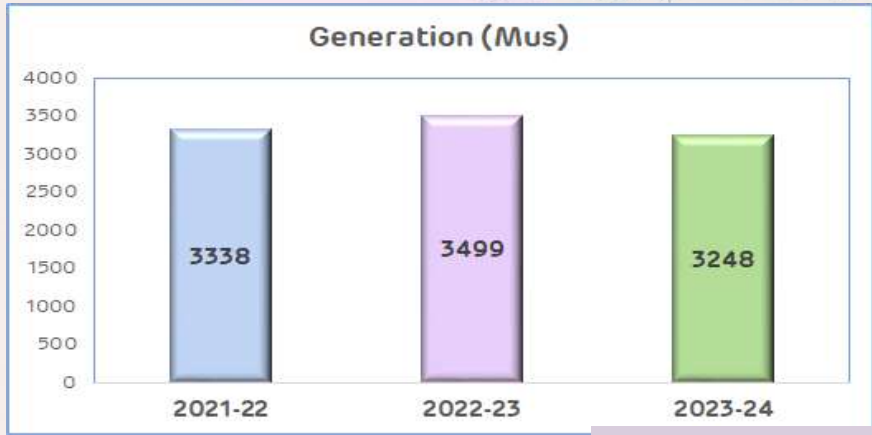
11
Information Security Management System
(ISO 27001:2013)

12
Social Accountability
(SA 8000:2014)

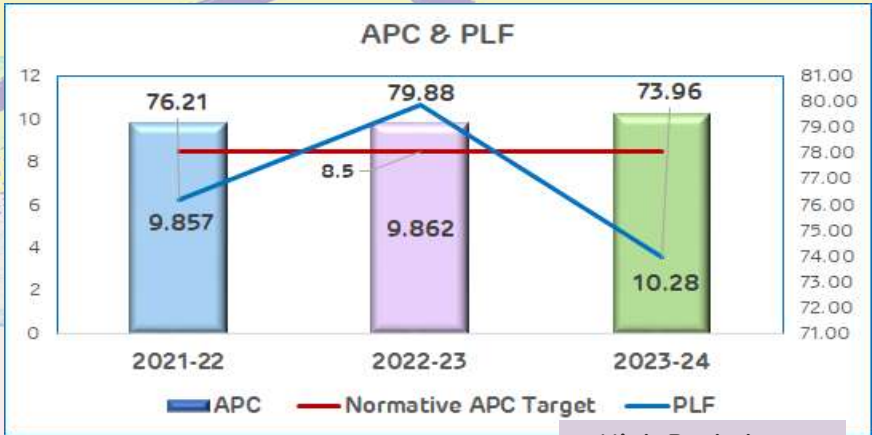
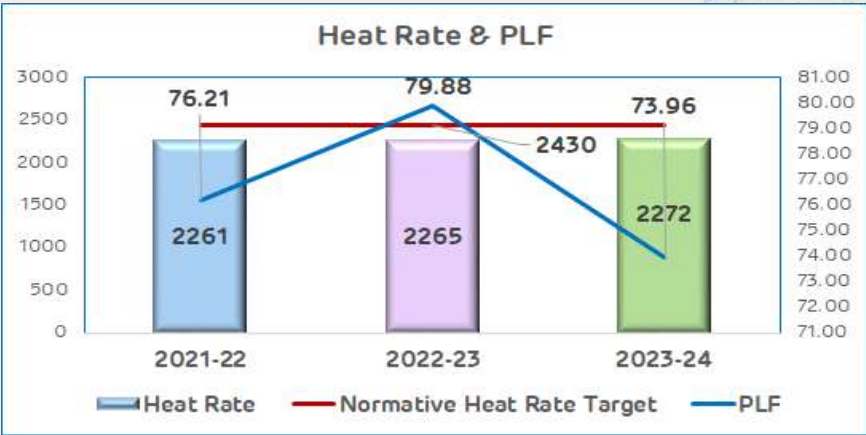
13
Zero Waste to Landfill Assessment Statement

ADTPS is the utility to implement 11 nos of ISO management standards & 2 Assessment Statement.

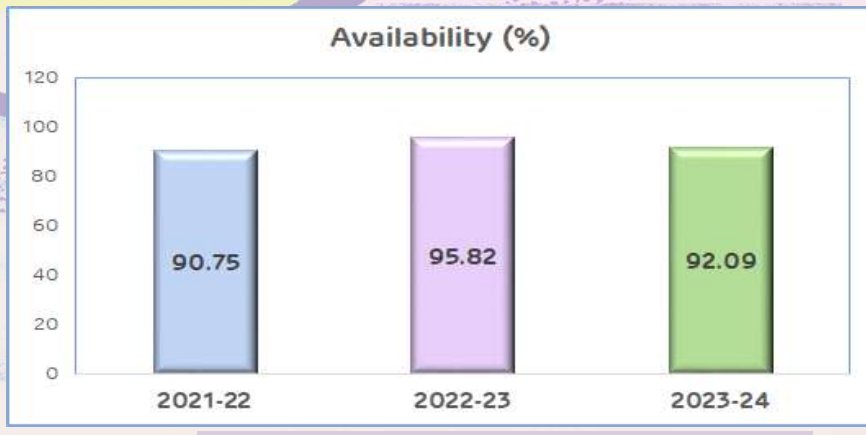
Energy Consumption Overview



High Back down

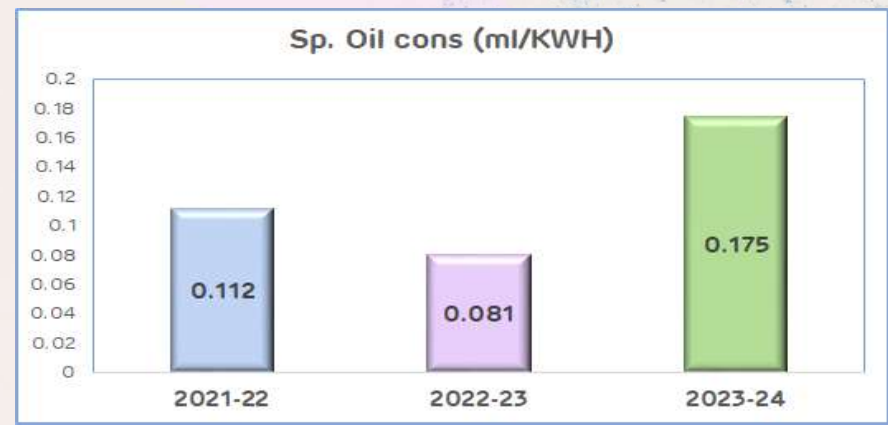


High Back down

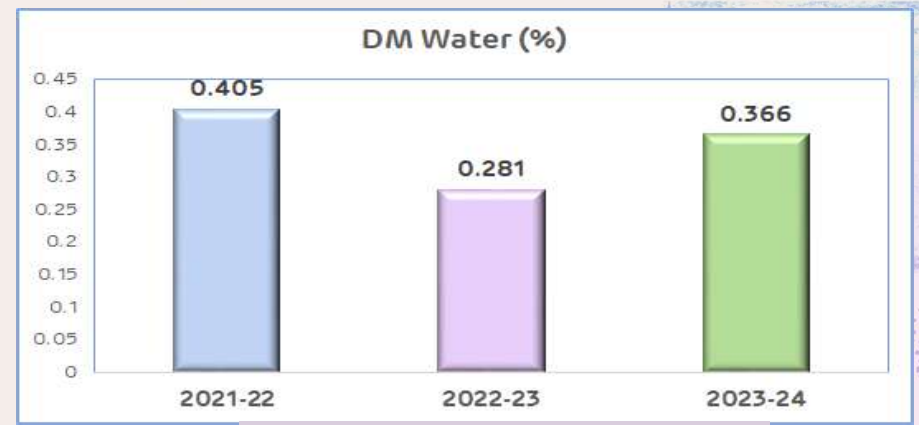


In FY 23 Shutdown was deferred as per

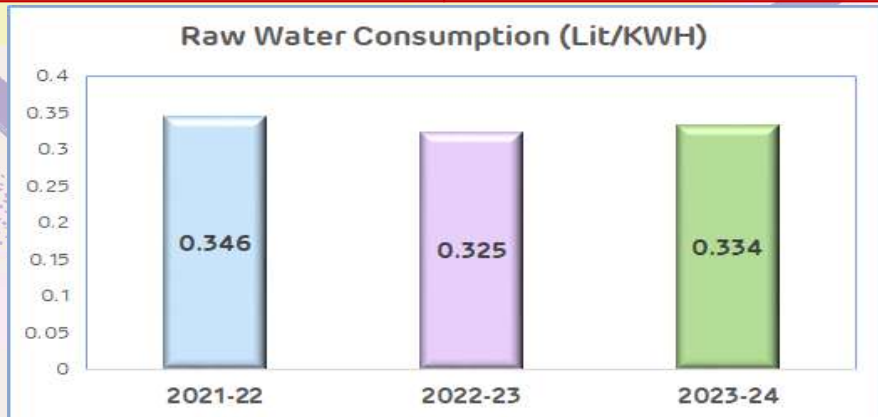
Energy Consumption Overview



High Back down

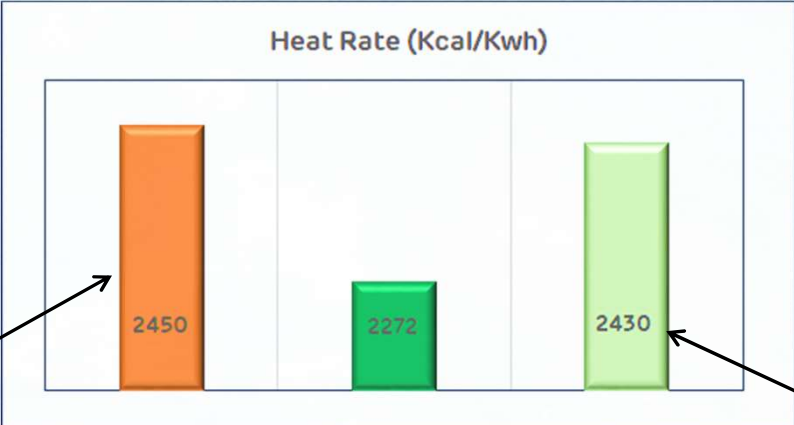


Reduction in DM by @ 9.6%



Reduction in Raw water by @

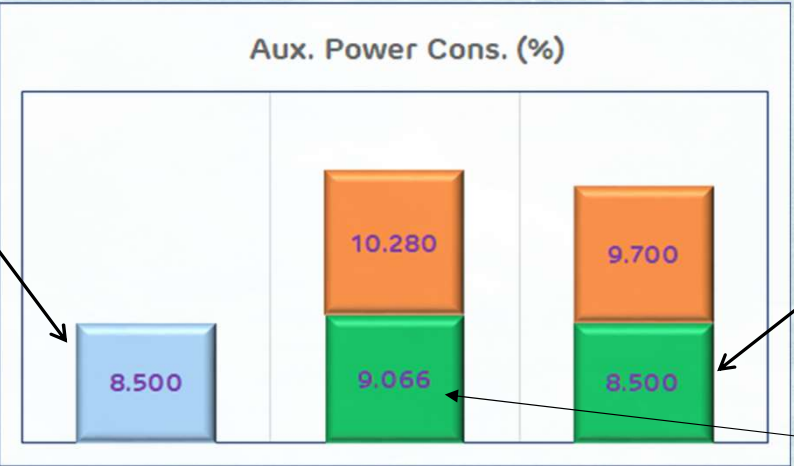
Benchmarking -Regulatory Norms



MERC MYT Target	
Heat Rate	2430 Kcal/Kwh
Aux Power	8.5%+1.2% for FGD

National Benchmark

MERC Target for F.Y. 2023-24



Without FGD

Back down by 712 MUs

Benchmarking With Peer Companies for FY 23-24



Description	UoM	ADTPS - Dahanu	GWEL-Warora	Reliance-Rosa	Lanco-Amarkantak	Balco- Korba
Availability	%	92.09	93.4	94.2	89.12	90.35
PLF	%	73.96	82.8	72.19	73.47	73.91
Loading Factor	%	80.32	88.7	78.1	82.44	81.8
Aux. Power consumption	%	9.06	7.63	7.64	8.44	7.79
Sp. Oil consumption	mL/Kwh	0.17	0.1	0.06	0.1	0.21
DM Water Make-up	%	0.36	0.14	0.34	0.28	
Heat Rate	Kcal/Kwh	2272	2307	2333	2395	2487

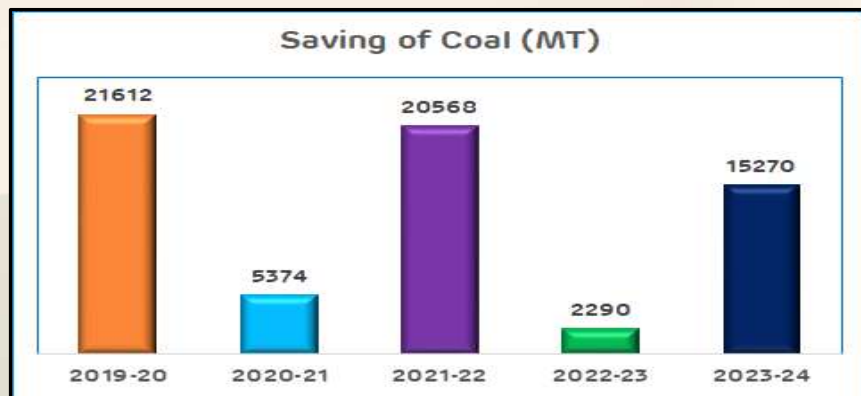
Investment in Energy Saving projects & Energy Saving



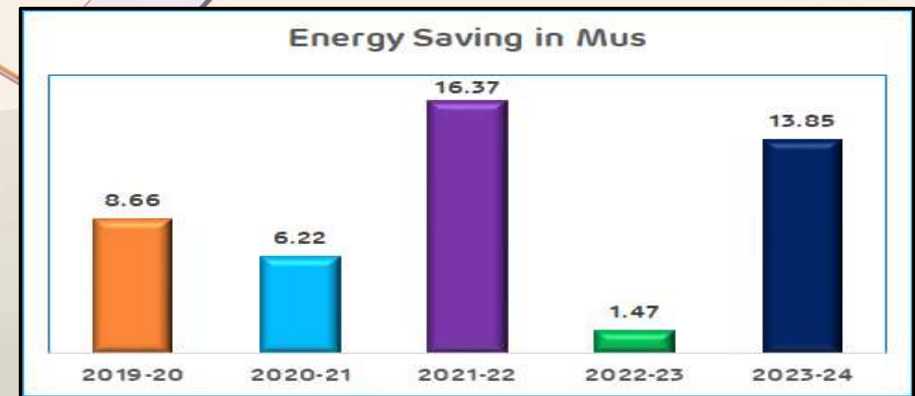
Investment of 54 Crs



Saving of 48 Crs



Coal Saving of 65117 MT



Energy Saving of 47 Mus

Energy Saving projects implemented in last 3 years



Year	Name of Energy saving projects	Investments (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Total Savings (INR Million)
2023-24	6	17	13.85	52264	126.8
2022-23	2	0.1	1.47	8161	16.3
2021-22	4	176.7	16.37	78986	128.3

FY 2022-23 – Shutdown Deferred as per SLDC due to constraints in Mumbai Transmission Network

Energy Saving Projects



FY 2023-24		
Energy Saving Project	Savings /Year (Rs. Lacs)	Investments (Rs. Lacs)
Unit-2 Heat rate improvement - Servicing of HP and LP ,HP heater parting plate leakage attended APH basket cold end water washing.	559	48
Unit-1 Heat rate improvement - HP heater parting plate leakage attended	224	0
Unit-1 APC improvement - APH seal rectification work	65	5
Unit-2 APC improvement - Flue Gas duct rectification and APH seal rectification work	265	12
Unit-2 APC improvement - by installing modified gear ratio hydraulic coupling in BFP	153	105
Unit-2 APC improvement - by upgrading RC feeder with latest microprocessor technology including VFD drives	2	0

Energy Saving Projects



FY 2022-23 – Shutdown Deferred as per SLDC due to constraints in Mumbai Transmission Network		
Energy Saving Project	Savings /Year (Rs. Lacs)	Investments (Rs. Lacs)
Improvement in feed water temperature after attending parting plate leakage in HP heater -6	112	0
Reduction in ID Fan Loading after attending flue gas duct leakage	51	1
FY 2021-22		
Energy Saving Project	Savings /Year (Rs. Lacs)	Investments (Rs. Lacs)
Replacement of HP & IP Turbine - OH of LP Turbine	1657.00	1238.65
Reduction in slip loss of BFP 1B hydraulic coupling in U-1	101.00	0.63
De-staging -CEP 1B	3.54	9.0

Unit-2 shutdown – Servicing of HP and LP Turbine



Parameters	UOM	Data
Net Saving in Unit Heat rate	Kcal/Kwh	20
Net Saving/Year	Crs/Year	5.59
CO ₂ Reduction	MT	13460



Parameters	Heat Rate in Kcal/Kwh
Before shutdown	2269
After shutdown	2249

Unit-2 shutdown - Reduction in ID Fan Loading after attending flue gas duct



Parameters	UOM	Data
Net Saving/Year	MUs	26.46
Project Cost	Rs Crs	0.0118
Pay Back	Months	0.1



Parameters	UOM	Loading	Reduction in loading
Fan Loading before Overhaul	KW	5615	
Fan Loading after Overhaul	KW	4659	956

Opportunity Based Maintenance : Short shutdown

Unit-1 – Attending HP Heater 6 parting plate leakage to improve Heat rate

Parameters	UOM	Data
Net Saving in Unit Heat rate	Kcal/Kwh	8
Net Saving/Year	Crs/Year	2.24
CO2 Reduction	MT	5384



Parameters	HPH 6 Outlet Temperature in ° C
Before shutdown	235.38
After shutdown	246.94

Opportunity Based Maintenance : Short shutdown



Unit -1- Reduction in ID Fan Loading after attending seal leakages

Parameters	Unit	Before	After
O2 Before APH	%	2.78	2.42
O2 After APH	%	5.35	4.10
Seal leakage across APH	%	18.91	11.25
APH Air Ingress in system	TPH	151.93	94.50



Parameters	UOM	Loading	Reduction in loading
Loading on ID Fan before work	KW	484	
Loading on ID Fan after work	KW	248	236

Capex for life extension

Major Capex Project	Cost in Rs Crs
Replacement of DDC & HMI system	38
Refurbishment of IP Turbine Module	15
Replacement of Boiler Eco and Reheater Coils, Coal burners	21
Refurbishment / Replacement of AHP equipment's like compressor, classifier, ash conveying pipes & valves, pumps & clinker grinder etc	16
Refurbishment / Replacement of major assemblies of CHP system like Wagon tippler, apron feeders, crushers, locomotive, belt conveying system	26
Construction of Ash Pond No 04	46
Repair Plant Buildings, Machine Foundations, Civil Structure	21
Renovation of Township Residential Quarters	15
Upgradation of IT network	12

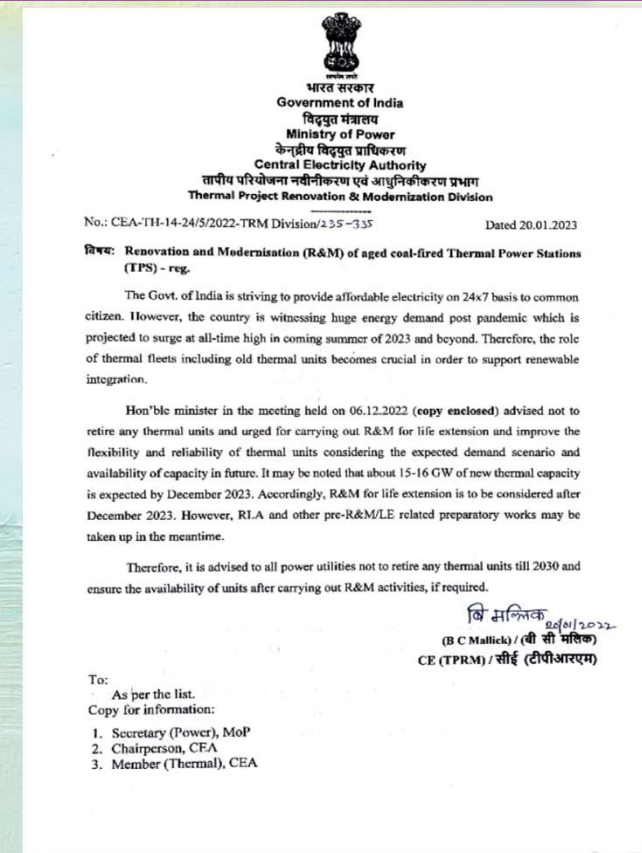


ADTPS proposes Rs. 423 Crs for the life extension of ADTPS units.

Capex for life extension



Major Capex Project	Cost in Rs Crs
Replacement of DDC & HMI system	38
Refurbishment of IP Turbine Module	15
Replacement of Boiler Eco and Reheater Coils, Coal burners	21
Refurbishment / Replacement of AHP equipment's like compressor, classifier, ash conveying pipes & valves, pumps & clinker grinder etc	16
Refurbishment / Replacement of major assemblies of CHP system like Wagon tippler, apron feeders, crushers, locomotive, belt conveying system	26
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ADTPS proposes Rs. 423 Crs for the life extension of ADTPS units.

INDIA'S
NO. 1
POWER
UTILITY

adani
Electricity

Innovative Projects

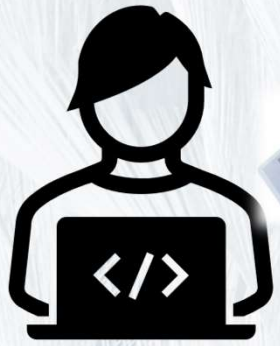


Innovative Project -1

QR Code System for Electrical Isolation of Equipment.

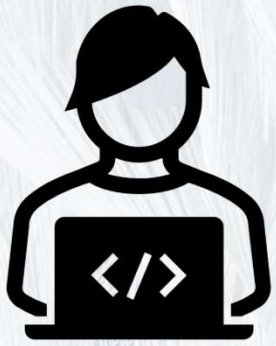
Previous Procedure

Traditional method posing safety risk may lead to fatal accident:



Unit Controller

Previous Procedure

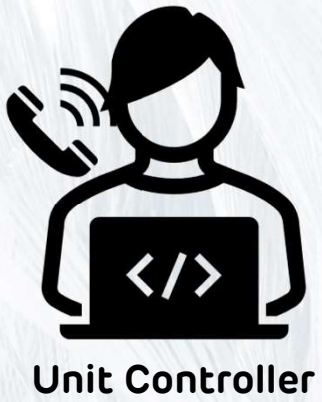


Unit Controller

Required Isolation
Equipment : Chiller Motor 3
Unit : 1



Previous Procedure



← Feedback →



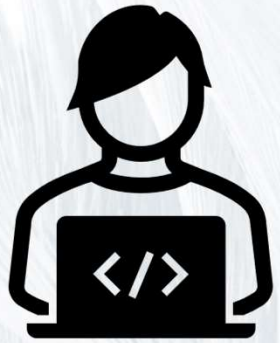
U#1
Chiller Motor-3



U#2



Risk Scenario : Incorrect Unit



Unit Controller

U#1

Chiller Motor -3



U#2

Chiller Motor 3



Human Error



Implemented Project : Safety Enhancement by elimination of Human Error.

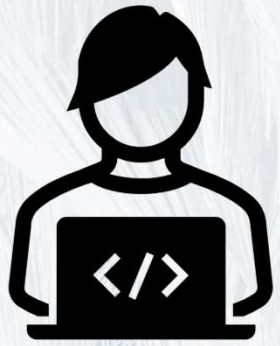
QR codes on

- Equipment PTW -TAG
- Electrical modules

System based Confirmation to Operator through

- Power Apps
- Microsoft Teams

Implemented Project



Unit Controller



U#1

Chiller 3 Motor



U#2

Chiller 3 Motor



Implemented QR CODE Addition

QR CODE
Addition



adani Electricity		adani Electricity	
Order No	400000388764	Order No	400000388764
Order Description	ISOLATION FOR DH-101122106	Order Description	ISOLATION FOR DH-101122106
Planner Group	ELM	Planner Group	ELM
Issue Date	10.07.2023	Issue Date	10.07.2023
Validity Date	12.07.2023	Validity Date	12.07.2023
Equip. Description	Central AC. chilled water mot-3 U# 1	Equip. Description	Central AC. chilled water mot-3 U# 1
Isolated Equipment	MODULE OFF AND FUSE REMOVED Central AC. chilled water mot-3 U# 1	Isolated Equipment	MODULE OFF AND FUSE REMOVED Central AC. chilled water mot-3 U# 1
Tagging	E-YES	Tagging	E-YES
Signature		Signature	<i>Diat</i>
Name(TGCM)	Vincy D'Silva VINCY	Name(ISOL)	<i>P.N.Kadi.</i>

U#1



U#2



Implemented Project



U#1

QR CODE
Addition



U#2



Implemented Project

STEP 1 – MOVE to LOCATION

U#1



U#2



Implemented Project



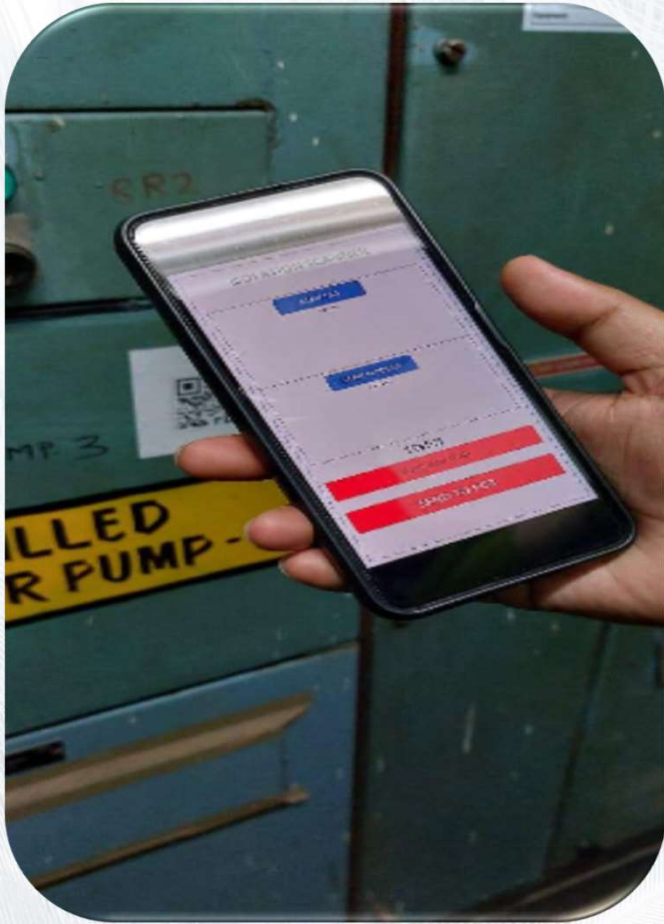
STEP 2 – SCAN TAG

adani Electricity	
Order No	400000388764
Order Description	ISOLATION FOR DH-101122106
Planner Group	ELM
Issue Date	10.07.2023
Validity Date	12.07.2023
Equip. Description	Central AC. chilled water mot-3 U# 1
Isolated Equipment	MODULE OFF AND FUSE REMOVED Central AC. chilled water mot-3 U#1
Tagging	E-YES
Signature	<i>Slat</i>
Name(TGCM)	Vincy D'Silva VINCY

adani Electricity	
Order No	400000388764
Order Description	ISOLATION FOR DH-101122106
Planner Group	ELM
Issue Date	10.07.2023
Validity Date	12.07.2023
Equip. Description	Central AC. chilled water mot-3 U# 1
Isolated Equipment	MODULE OFF AND FUSE REMOVED Central AC. chilled water mot-3 U#1
Tagging	E-YES
Signature	<i>P.N. Kadi</i>
Name(ISOL)	



Implemented Project



U#1



STEP 3 - SCAN MODULE

U#2



Implemented Project



ISOLATION SCANNER

SCAN TAG

Barcode

DH-101122106
CHILLER 3 MOTOR
U-1

SCAN MODULE

Barcode

DH-121122106
CHILLER 3 MOTOR
U-2

STATUS

INCORRECT

INCORRECT

INCORRECT EQUIPMENT SCANNED

U#1



STEP 3 – SCAN MODULE

U#2



Implemented Project

STEP 4 – MOVE TO CORRECT LOCATION AND SCAN MODULE AGAIN

U#1



U#2



Implemented Project

STEP 4 – MOVE TO CORRECT LOCATION AND SCAN MODULE AGAIN



ISOLATION SCANNER

SCAN TAG
Barcode
DH-121412170
Chiller 3 MOTOR
U-1

SCAN MODULE
Barcode
DH-121412170
Chiller 3 MOTOR
U-1

STATUS
SUCCESS

SEND TO PCR



U#1



U#2



CORRECT EQUIPMENT SCANNED

Implemented Project

STEP 5 – SEND FEEDBACK TO CONTROL ROOM

ISOLATION SCANNER

SCAN TAG

Barcode
DH-121412170
Chiller 3 MOTOR
U-1

SCAN MODULE

Barcode
DH-121412170
Chiller 3 MOTOR
U-1

STATUS

SUCCESS

SEND TO PCR



U#1



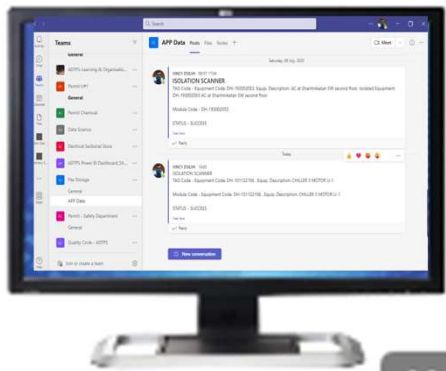
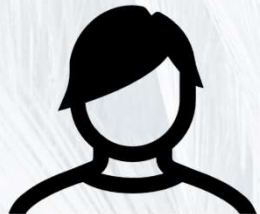
U#2



CORRECT EQUIPMENT SCANNED

Implemented Project

STEP 5 – SEND FEEDBACK TO CONTROL ROOM



ISOLATION SCANNER

SCAN TAG

Barcode
DH-121412170
Chiller 3 MOTOR
U-1

SCAN MODULE

Barcode
DH-121412170
Chiller 3 MOTOR
U-1

STATUS

SUCCESS

SEND TO PCR



U#1



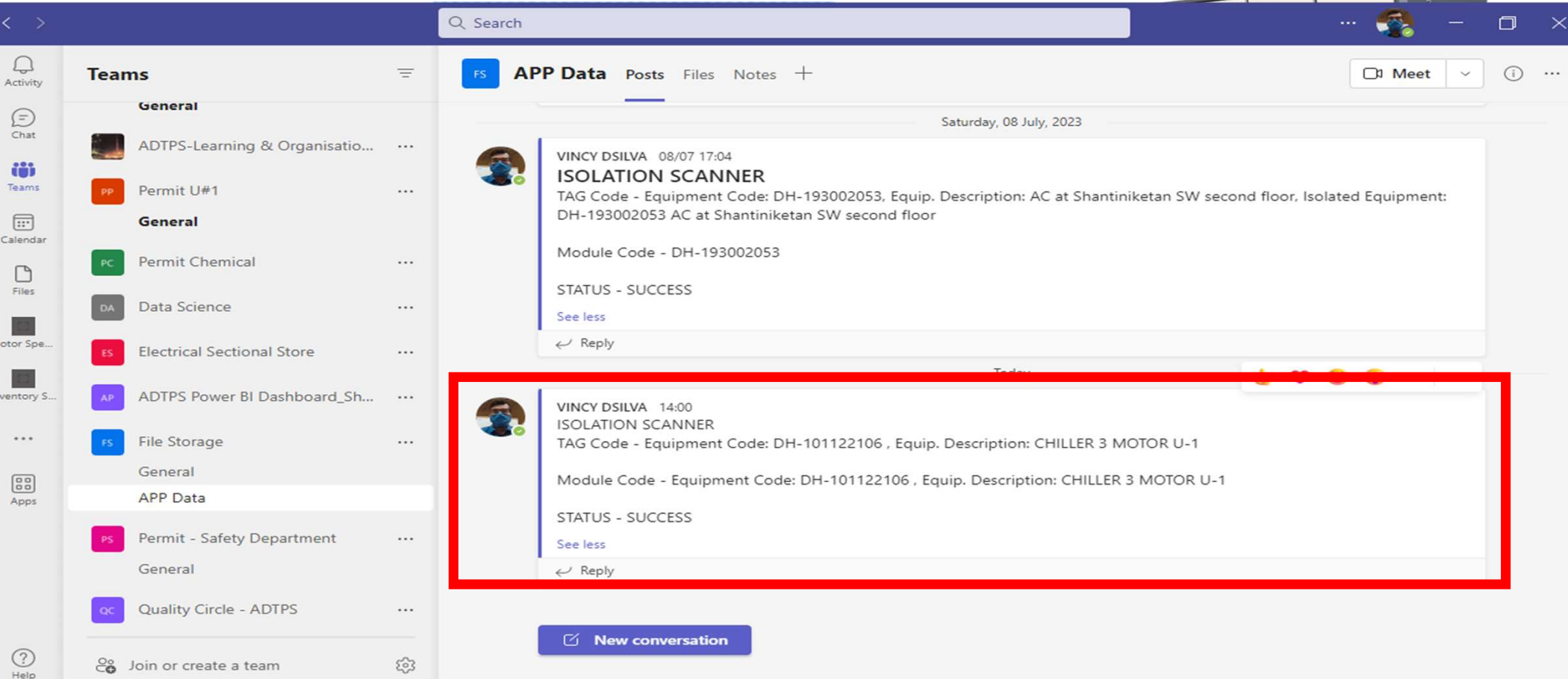
U#2



CORRECT EQUIPMENT SCANNED

Implemented Project

STEP 6 – FEEDBACK RECEIVED OF CORRECT EQUIPMENT IDENTIFICATION



The screenshot displays a Microsoft Teams chat window for the 'APP Data' channel. The chat history shows two messages from Vincy Dsilva, both dated 08/07. The top message, from 17:04, reports a successful identification of an AC unit. The bottom message, from 14:00, reports a successful identification of a chiller motor. The bottom message is highlighted with a red border.

Message 1 (08/07 17:04):
ISOLATION SCANNER
TAG Code - Equipment Code: DH-193002053, Equip. Description: AC at Shantiniketan SW second floor, Isolated Equipment: DH-193002053 AC at Shantiniketan SW second floor
Module Code - DH-193002053
STATUS - SUCCESS
[See less](#)
[Reply](#)

Message 2 (08/07 14:00):
ISOLATION SCANNER
TAG Code - Equipment Code: DH-101122106 , Equip. Description: CHILLER 3 MOTOR U-1
Module Code - Equipment Code: DH-101122106 , Equip. Description: CHILLER 3 MOTOR U-1
STATUS - SUCCESS
[See less](#)
[Reply](#)

[New conversation](#)

Benefits



Inline with Organization Goal of Zero Harm



Accurate Isolation of Equipment's



Elimination of Human Error



Eliminates risk of occurrence of accident and equipment damage



Improves Brand Image

Replica is possible in other Power plants

Innovative Project -2

Use of Digital Camera for Internal Inspection of Coal Mills



Problem: Maintenance persons were entering into confined space of coal mill for internal inspection , having exposure to potential hazards of coal smoldering.

Solution : Use of Digital Camera for Internal Inspection of Coal Mills

Benefits :

- This eliminated entry of maintenance person in confined space and thereby enhancing safety of human beings.
- This eliminated hazards like suffocation, unconsciousness, exposure to dust and heat.



Replica is possible in other Power plants

Innovative Project -3

Online detection of Boiler clinking



Problem

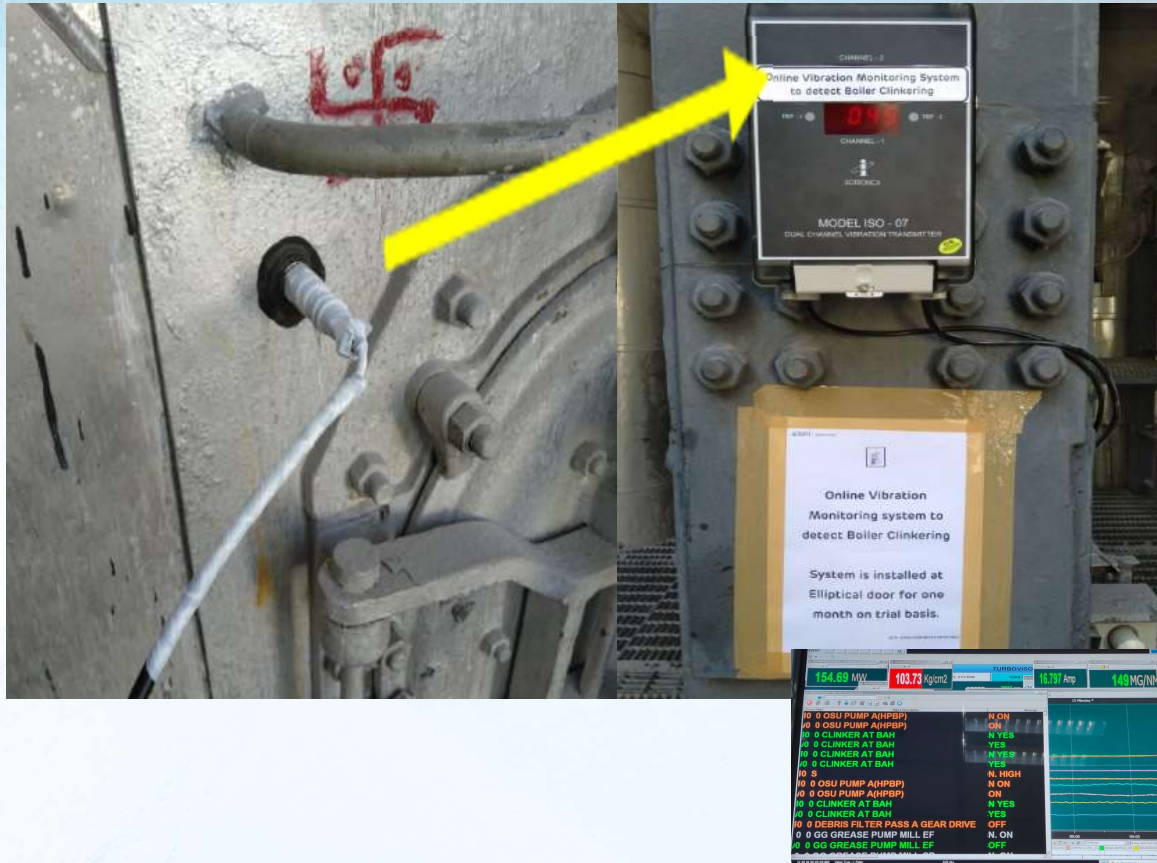
Boiler clinking identified by Local Operator by experiencing local round and Boiler Desk Engineer does not get any information & results less time to initiate necessary steps for safe boiler operation

Solution

Online vibration system installed at elliptical door of boiler, which provides alarm indication in PCR through Sequence of Events

Innovative Project -3

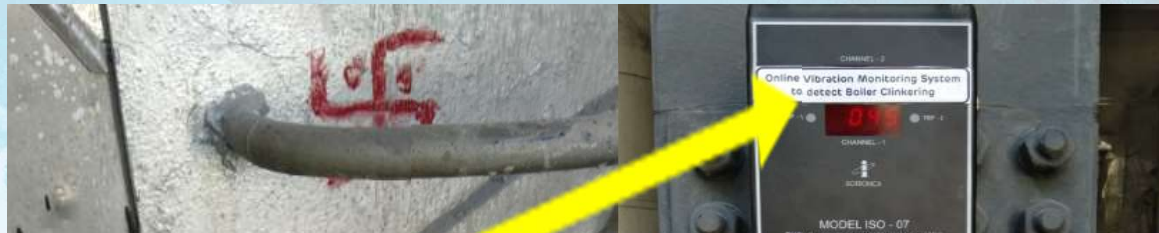
Online detection of Boiler clinkering



Replica is possible in other Power plants

Innovative Project -3

Monitoring system for Detection of Boiler





Renewable Energy



Renewable Energy



Solar Roof Top Generation	Solar Generation
Admin building roof top solar - MWH	60.94
Vangaon AAQM Roof top - MWH	0.988
Ashagad AAQM Roof top - MWH	1.396
Total	63.32



Installation of Floating Solar Panel on backwater channel (Project is under study)

Area identified for Solar Installation :

- Solar plant installation on Water bodies – 200 Acres (50MW Capacity)
- Roof Top Solar – 03 Acres (0.75 MW Capacity)

Expected Benefits

- Capacity Utilization Factor (CUF) – 17%
- Expected Generation – 76 Mus
- Impact on APC reduction – 2.17% (@ 80% PLF)

Ash Management :



It is the first of its kind of system installed in India. In classifiers – mixture of fly ash is separated into fine ash

Dry Evacuation system

2011

To counter day - to - day fly ash demand variation in availability of ash lifting vehicle

300 MT Ash Storage Silo

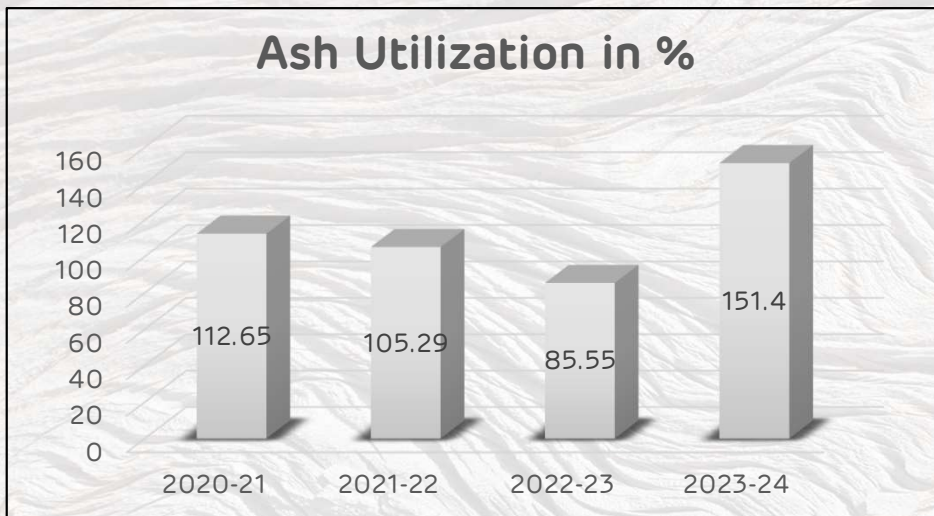
2005

Ash Gridding Unit

- First unit being used in the any power plant in Asia for improving coarse ash utilization
- To grind the coarse ash into finer size of less than 45 μm , thus improved total ash utilization

2014-15

Ash Management :



Ash utilization is in compliance with MoEF & CC Notification

NABL Accreditation for Ash Testing Laboratory

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Environmental
Initiatives

INDIA'S
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Electricity


Environmental Initiatives

Environmental Initiatives:

 Green Belt Development in Plant (54%) & Ash Ponds

 Use of Washed Coal since 1997 & blended with Imported Coal

 ZWTL -Diversion ratio – 99.96%

 SuP Banned in ADTPS Since 2013

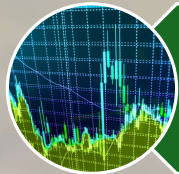
 Sea Water FGD Since 2007



Environmental Initiatives:



Mangrove Plantation > 20 Million



Setting up Ambient Air Quality Monitoring



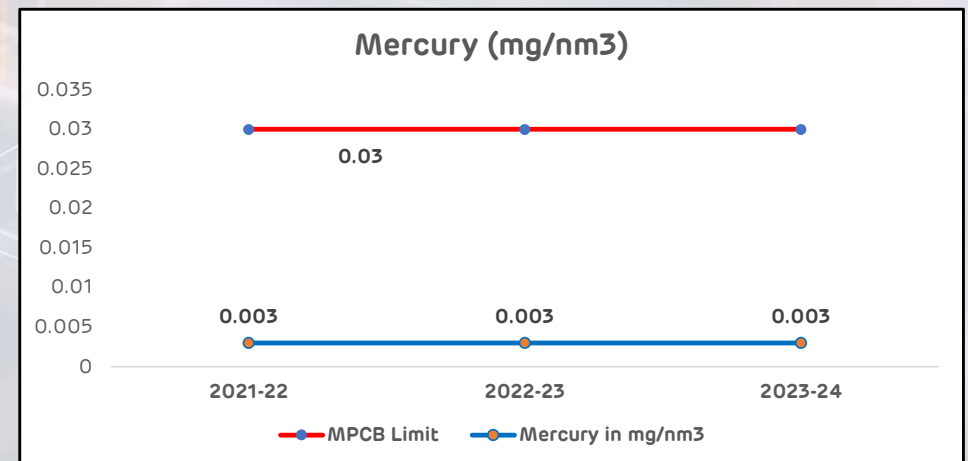
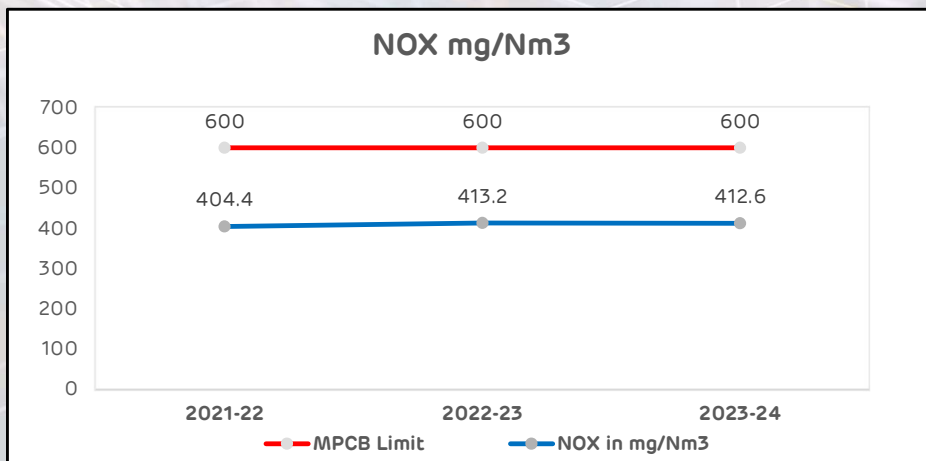
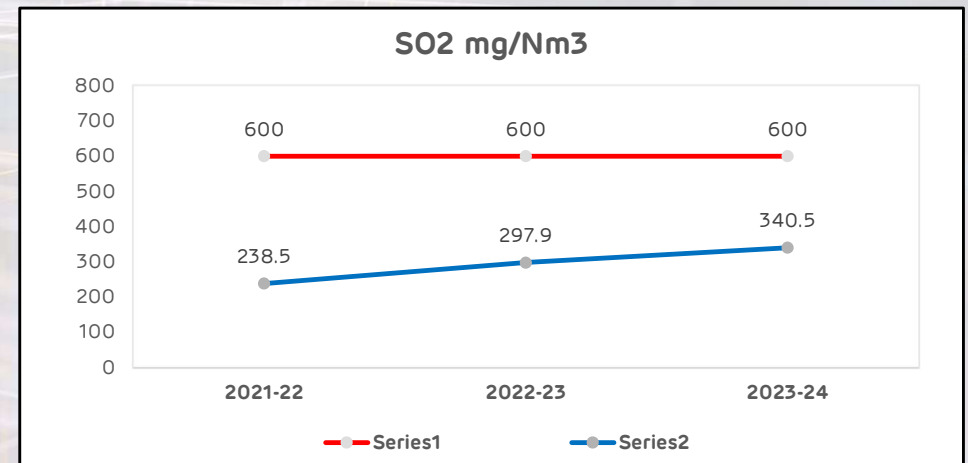
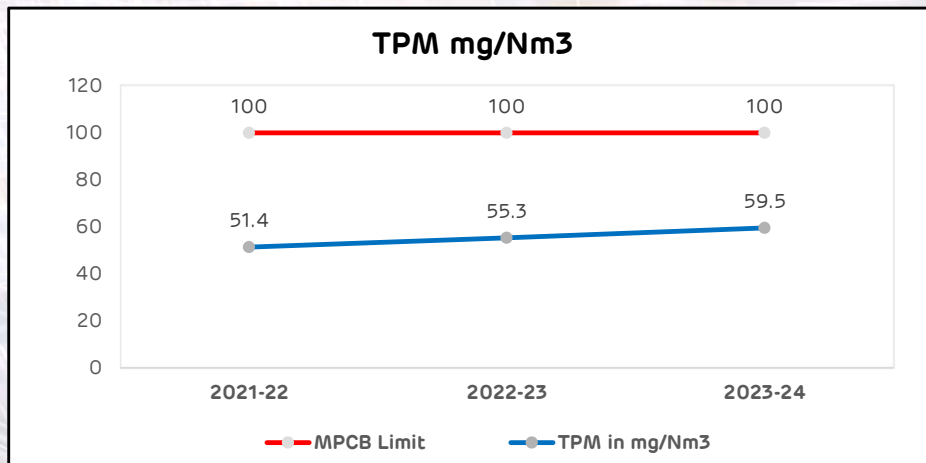
Rainwater Harvesting- Roof top water collection



Drip Irrigation for entire Horticulture & Floriculture



Environment Performance



ESG Performance



Renewable energy share increase to 35% in overall electricity mix.

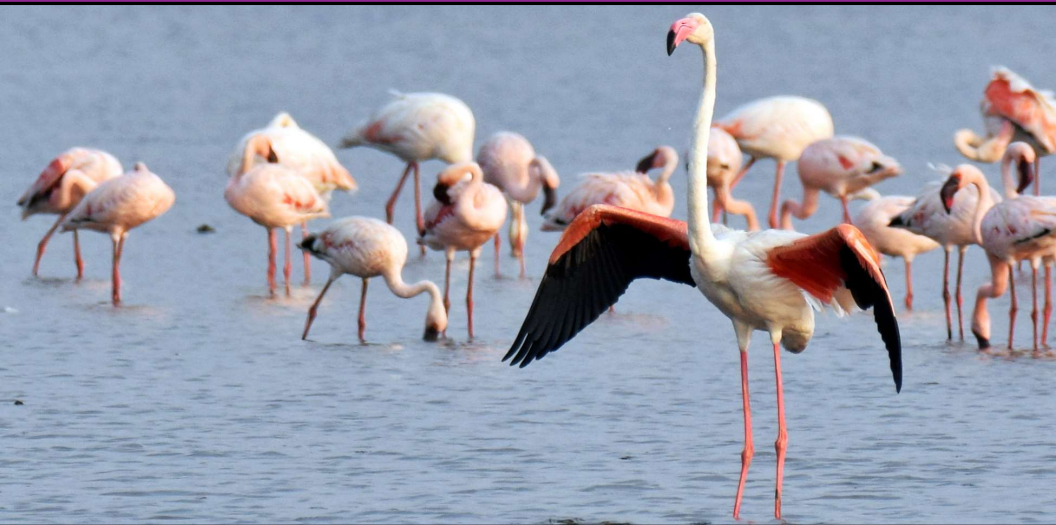
CDP Climate Change 2023 score improves to 'B' from 'D' due to prompt actions on CC.

Secured a 'B' rating in the CDP Water Security 2023 score.

Firmly achieved 'B' rating in the CDP Supply Chain Engagement score(global average - C)

ESG score improves to 25.3 from 32.8 , securing place among top 30 global utilities .

Biodiversity Study by CII



Three-season study carried out from Sep 2021 to Aug 2022.

ADTPS recorded rich faunal and floral diversity with a score of 66/100.

225 floral and 144 faunal species recorded.

25 migratory birds including flamingoes observed.



Successful completion of PAT-1 & PAT -2 Cycle

Parameters	UOM	PAT-1	PAT-2
Target SNHR	Kcal/Kwh	2523	2519.42
Achieved SNHR	Kcal/Kwh	2511.71	2495.4
SNHR Gain	Kcal/Kwh	11.29	24.02

Gain of 4591 and 8749 Escerts

Water Management

ISO 46001 CERTIFICATION

WATER-EFFICIENCY MANAGEMENT SYSTEMS

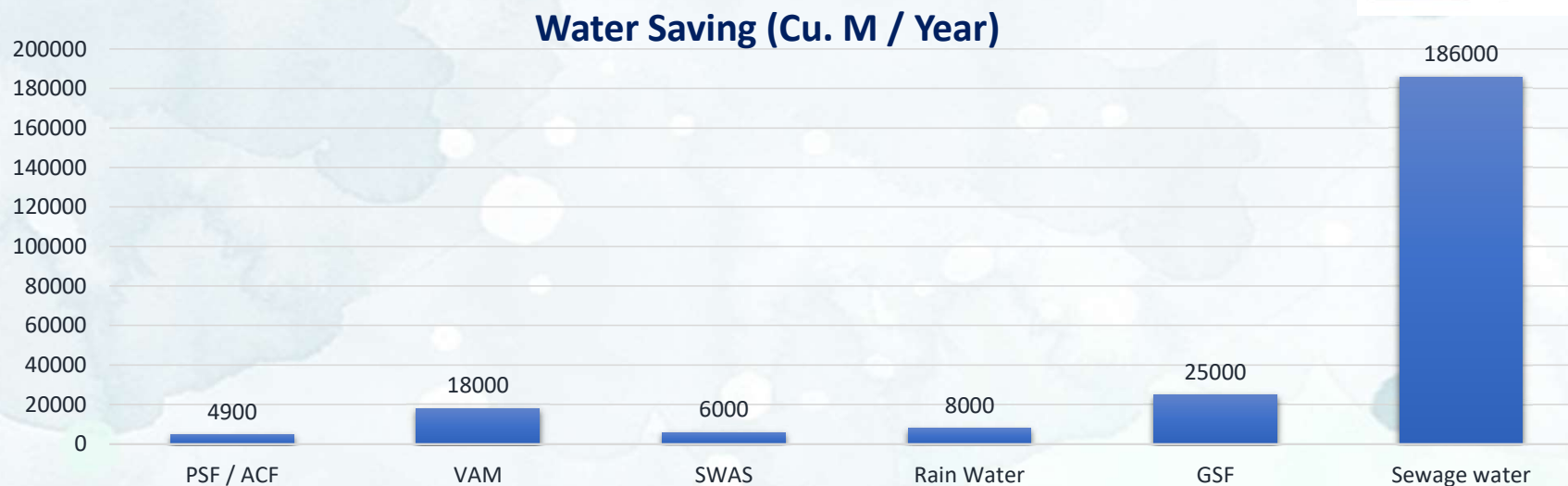
Mapping usage of Water

Defined limits & controls

Monitoring

FY Target - Reduction of 10% from Baseline

Water Management



Around 2.5 lakh cubic meter wastewater generated through various process is recycled

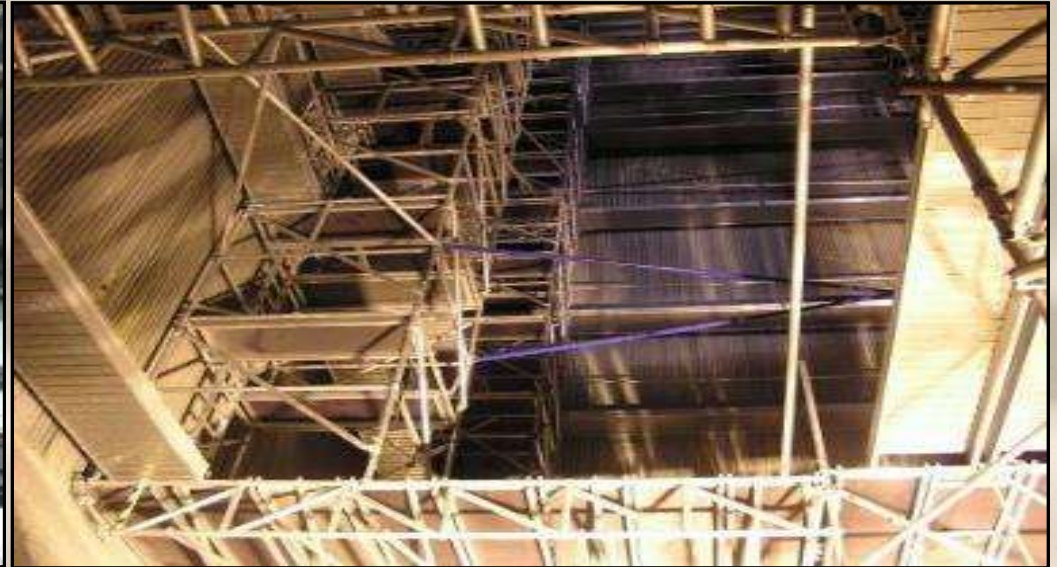
Efforts taken for reduction in plant water consumption:

- Installation of 50 no. of flowmeters in various buildings
- Availability of building wise water consumption data at a glance on MS TEAMS platform
- Various water project are identified, and separate budget @ 20 Lacs is provided



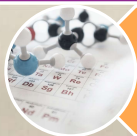
Best Practices adopted at AD

Modular Concept to Reduce Maintenance Downtime



- Use of modular concept that allows the replacement of major assemblies in a minimum amount of time and expenditure (e.g. HP turbine module, CW debris filter, Primary & Secondary fans rotor, Boiler feed pump cartridge, vacuum pump, CW pump)
- Modular Scaffolding for Boiler Overhauling

Readiness to Flexible Operation



Flexibility assessment study up to 40% load, carried out in Sep-2019 under guidance of OEM (M/s BHEL).



Upgradation of existing Governing system with MAX DNA for fine control of turbine control valve.



Upgraded RFGMO installed in both the unit and same is in service 24*7.



Digital flame scanners installed in unit # 2 & planned in next overhaul in unit # 1.



Our own training center is having simulator facility which is being used for hands on experience of flexible operation to desk engineer.



During every unit shutdown opportunity, flexible operation limiting load, without oil support is exercised

Residual Life Assessment (RLA) Study



REPORT ON REMNANT LIFE ASSESSMENT OF BOILER UNIT 2-250MW (IBR REG NO. MR-12309) AT ADANI DAHANU THERMAL POWER STATION AS PER IBR/1950/REGULATION 391A(b)(i) TABLE-1

CLIENT: M/S ADANI ELECTRICITY MUMBAI LIMITED
REPORT NO: V46275



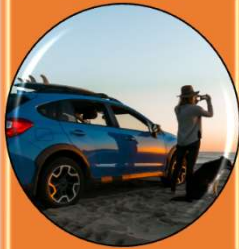
TCR Advanced Engineering Pvt. Ltd.
Mumbai, India. Ph: 022-25511000

RLA study conducted after every 50,000 Hrs. operation of Unit

Major Equipment	Remaining Life in Years
HP Turbine	24
IP Turbine	20
LP Turbine	20
Turbine Valves	22
Main Boiler	17
Generator	14
Exciter	17



Digitalization



Installation of iVMS device on Admin vehicles.



Provision of Camera for Mill Int. inspection to eliminate Confined space Hazards



Auto emailing while issuing permits on Higher approval / Protection bypass / Environment parameters



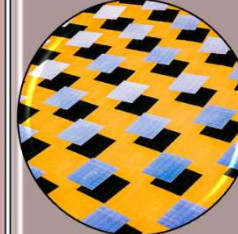
Analog Flame Scanners upgraded to Digital Scanners



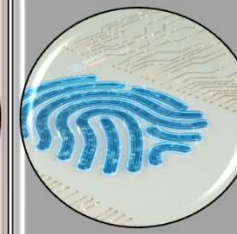
Upgradation of Physical Logbook to Digital Logbook



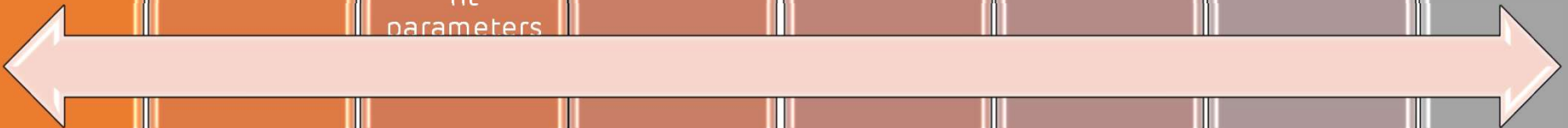
Use of MS Teams to conduct Knowledge Management / Meeting



Power BI Based PR/PO Tracker



Use of QR codes to scan for isolation of HT Auxiliaries



Installation of EV charging station



Electric Vehicle Running KMs				Total Running KM	Saving Petrol in Liter	CO ₂ Saving in Kg
Year	E Vehicle-1	E Vehicle-2	E Vehicle-3			
FY 23-24	11578	18481	16123	46182	3080	8000

Adani Workplace Management System (AWMS)



ADTPS is certified with GOLD trophy & certificate in 3rd cycle of AWMA accreditation in ADANI Group

Celebration of Energy Conservation Week



EC Oath & Tree Plantation by Children



Drawing & Quiz Competition for Colony Children

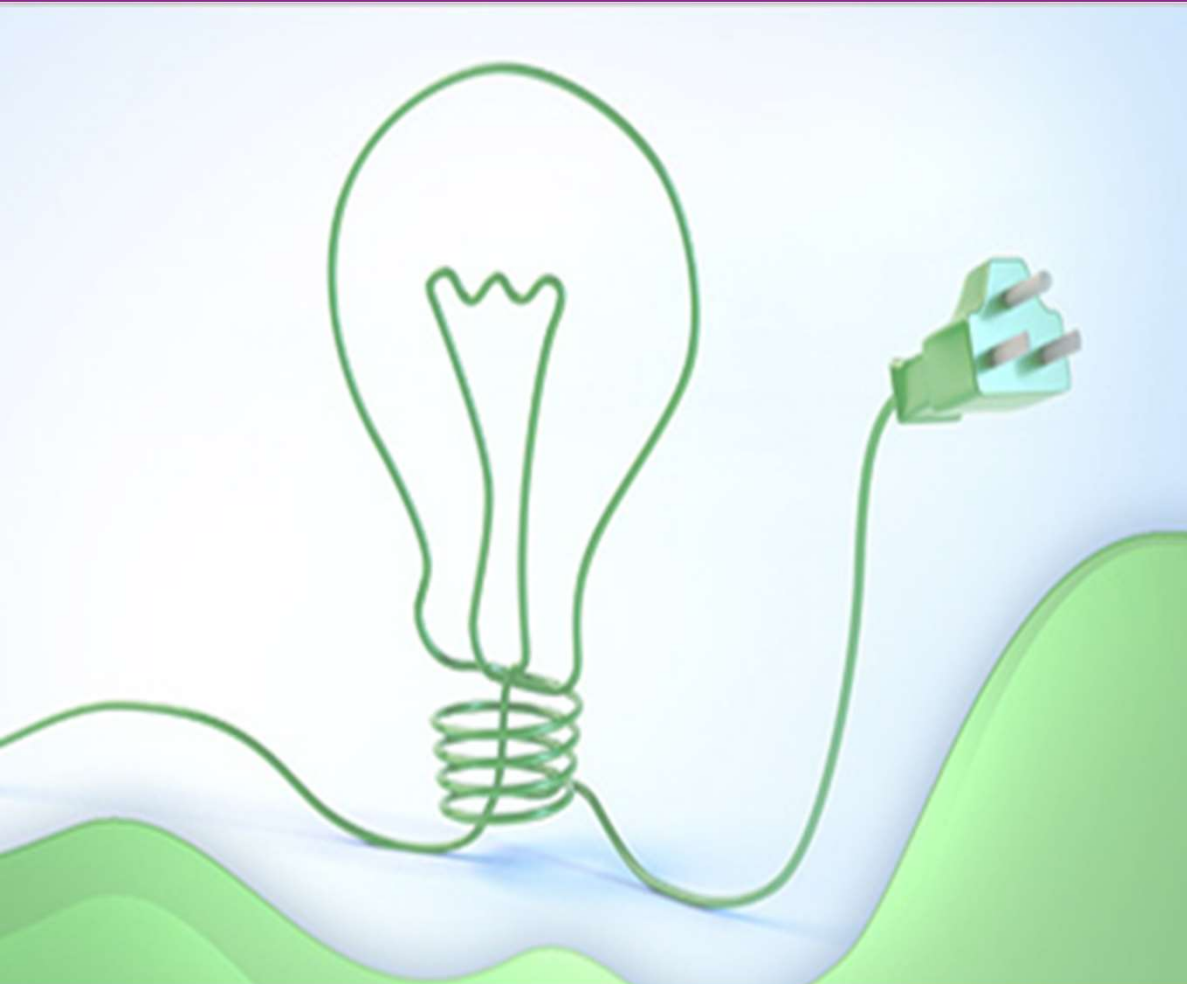
Celebration of Energy Conservation Week



Urja Samwad



Energy Management System



Received Certification on 1ST Day of Launch

Realtime monitoring – ELAN/HMI System

Building Energy Consumption Reduction by 27%

BEE Certified Energy Auditors – 19 Nos

Energy Management System



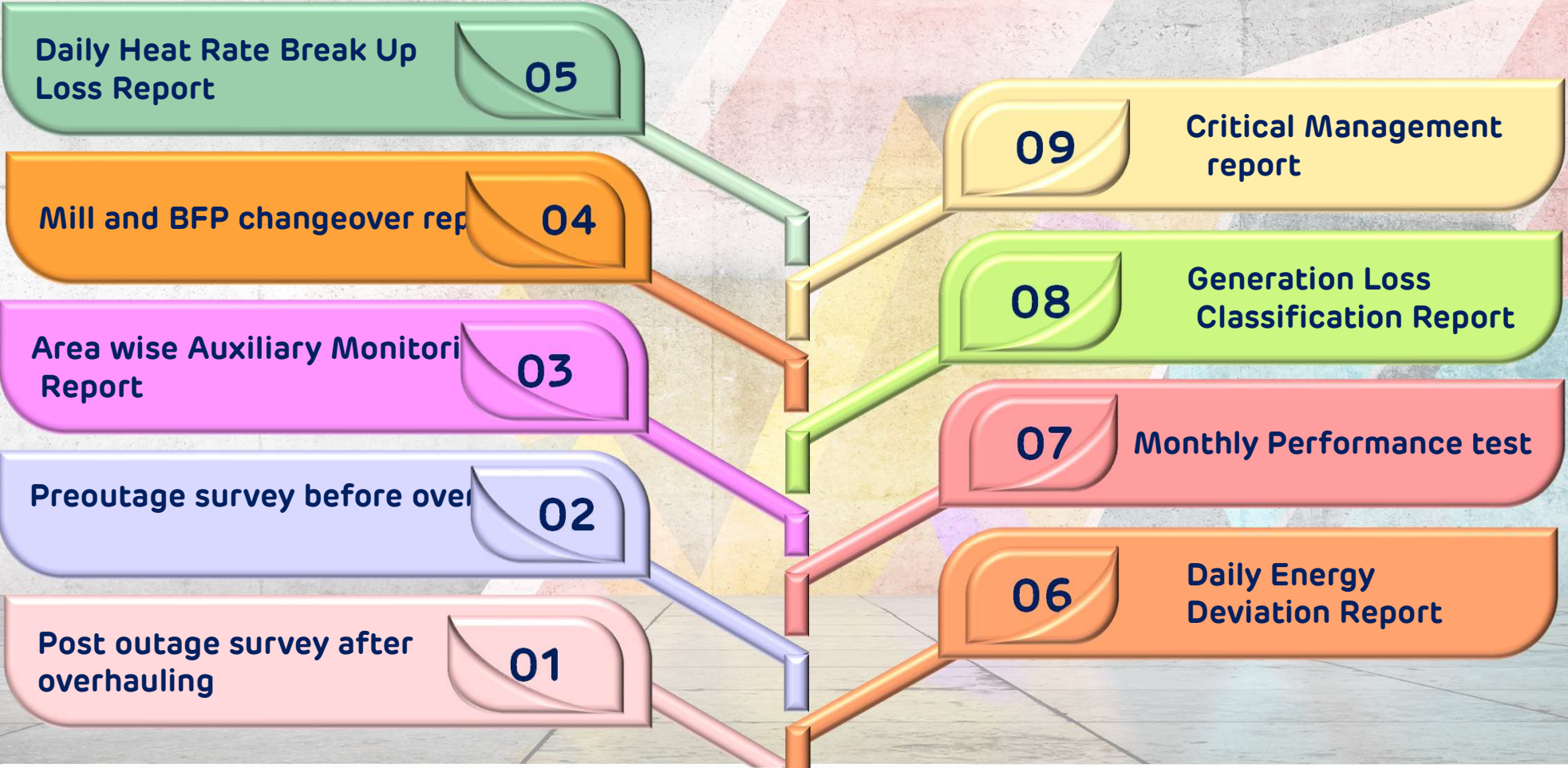
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Realtime monitoring – ELAN/HMI System

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MIS for Performance Monitoring



Daily Heat Rate Break Up Loss Report 05

Mill and BFP changeover report 04

Area wise Auxiliary Monitoring Report 03

Preoutage survey before overhauling 02

Post outage survey after overhauling 01

09 Critical Management report

08 Generation Loss Classification Report

07 Monthly Performance test

06 Daily Energy Deviation Report

CSR- Health, Education & Livelihood.



Mother & childcare unit



Skill development – tailoring classes



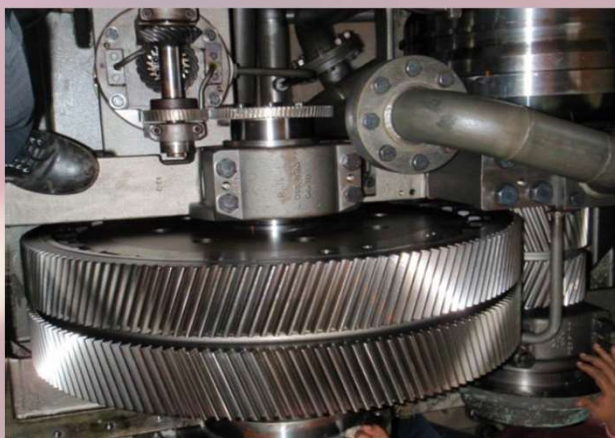
Water Filtration Units



"Integrated Tribal Development Project " in association with NABARD

Learning Implemented from CII Forum

Project :Reduction in slip loss of BFP hydraulic coupling



- Modified Gear ratio retrofitted in existing hydraulic coupling
- Gear Ratio was changed from 165/41 to 133/36

Parameters	UOM	Loading	Reduction in loading
Before Modification of Hydraulic coupling	KW	5869	
After Modification of Hydraulic coupling	KW	5317	552

NET ZERO commitment

AEML Sustainability KPIs & Status



AEML adopted Sustainability Linked Targets with following KPI's with financial penalty for

KPI 1: Increase Renewable power mix in the overall power purchase mix

SPT 1: To Attain at least 30% by FY2023 and 60% of renewable power procurement mix by FY2027

FY2019 (Baseline)	FY2022	FY2023	FY2024
3.01%	8.12%	30.04%	34.35%
		RE – 3002.41 MU Total – 9995.52 MU	RE – 3710.88 MU Total – 10804.65 MU

KPI 2: Reduction in GHG Emission Intensity (Scope 1 and 2)

SPT 2: To Reduce GHG Emission Intensity (Scope 1 and 2) by 40% by FY2025, 50% by FY 2027 and 60% by FY2029, compared with FY2019 (Baseline year)

	FY2019 (Baseline)	FY2020	FY2021	FY2022	FY2023	FY2024
GHG tCO2e	3750069	3370013	3202020	3237826	3310159	3082158
EBITDA Rs Cr	1664	1882	2078	2083	2381	2353.70
Emission Intensity (tCO2e/ EBITDA in Rs Cr)	2254	1791	1541	1554	1390	1309.49
				31.04%	38.32%	41.90%

ESG Commitments on track through various Measures Taken

Awards and Recognition



Recipient of More Than 145 National & International Prestigious Awards

Awards



- Last year achievement - "Excellent Energy Efficient Unit" award from CII.
- Proclaimed as the "National Energy Leader" for the fourth consecutive year.



Awards



Prestigious Climate Action Programme 2.0 ° Award 2023 by CII

We're listening



The power of service

adani
Electricity

INDIA'S
NO. 1
POWER
UTILITY