

Power Ref: APL/APRL/EMD/EC/MoEF/253/05/22 Date: 28/05/2022

Τo,

Additional Principal Chief Conservator of Forest (APCCF) Ministry of Environment, Forest and Climate Change

Integrated Regional Office, Jaipur Aranya Bhawan, Mahatma Gandhi Road, Jhalana Institutional Area. Jaipur – 302004, Rajasthan

Sub: Six Monthly Compliance Status of Environment Clearances for Kawai Thermal Power Plant along with Environmental Monitoring reports- reg.

Ref: Environmental Clearance letter no. J-13012/154/2008-IA.II (T) Dated- 04.05.2011 & Amendment on 13/03/2014.

Dear Sir,

With reference to above subject, please find enclosed herewith Six-Monthly Environment Clearances (EC) compliance status report along with Environmental monitoring reports as Ambient Air Quality, Water Quality, Noise level & Soil quality, CAAQM data, Met. data, Greenbelt development, Fly ash & CSR Report etc. for the period of **October'2021 to March'2022** in soft (e-mail).

This is for your kind information & record please.

Thanking You, Yours faithfully, for **Adani Power Rajasthan Limited**

(Santosh Kumar Singh) Head - AESG

Encl: as above

CC: Member Secretary Central Pollution control Board Parivesh Bhavan, East Arjun Nagar Kendriya Paryavaran Bhawan New Delhi- 110 032.

Member Secretary, **Rajasthan State Pollution Control Board** 4, Institutional Area, Jhalana Doongri Jaipur - 302 004

Adani Power Rajasthan Ltd Adani Corporate House Shantigram, S G Highway Ahmedabad 382 421 Gujarat, India CIN: U40104GJ2008PLC052743 Tel +91 79 2555 4444 Fax +91 79 2555 7177 info@adani.com www.adanipower.com

The Regional Officer, **Rajasthan State Pollution Control Board** Jhalawad, Rajasthan

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE

1320 (2x660) MW Thermal Power Plant

At

KAWAI VILLAGE, ATRU TEHSIL BARAN DISTRICT RAJASTHAN

Submitted to:

Integrated Regional Office, Jaipur Ministry of Environment, Forest & Climate Change Central Pollution Control Board, New Delhi Rajasthan State Pollution Control Board, Jaipur



Submitted By:

Environment Management Department Adani Power Rajasthan Limited

> Kawai Village, Atru Tehsi, Baran District, Rajasthan

PERIOD: October'2021 to March'2022

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Introduction

Adani Power Rajasthan Ltd. (APRL), a wholly owned company of Adani Power Limited, has established 1320 MW (2 x 660 MW) Coal based Supercritical Thermal Power Plant at Kawai, Tehsil Atru, District Baran in Rajasthan.

Kawai Thermal Power Plant is located near village Kawai, Tehsil Atru, District Baran (Rajasthan). The power plant is based on supercritical, energy efficient & environment friendly technology.

APRL has obtained Environmental Clearances (EC) from Ministry of Environment & Forest (MoEFCC) and has also obtained Consent to Establish (CTE) as well as Consent to Operate (CTO) from Rajasthan Pollution Control Board (RPCB). The plant is fully operational since December '2013. As the part of the compliance of statutory requirement environmental quality monitoring is being done inside the premises and also in nearby villages.

Ambient Air Quality Monitoring Stations has been established in consultation with Rajasthan State Pollution Control Board, three locations within the plant premises & three locations outside plant in different village based on meteorology of the site and consultation with State Pollution Control Board, Presently Environmental monitoring & analysis is being carried out by M/s Team Institute of Science & Technology, Jaipur, (Rajasthan).

Point wise compliance status of **Environmental Clearance for 1320 MW (2 x 660 MW)** Coal based Supercritical Kawai Thermal Power Plant is furnished herewith.

Adani Power Rajasthan Limited

COMPLIANCE STATUS ON ENVIRONMENTAL CLEARANCE 1320 (2×660) MW Coal Based Kawai Thermal Power Plant

Vide letter No. J-13012/154/2008-IA.II (T) dated 04.05.2011 and

Its subsequent amendment dated 13.03.2014

Α	Specific Condition	Status
(i)	Vision document specifying prospective	Complied.
	plan for the site shall be formulated and	Vision document had already been submitted
	months	along with first EC compliance report.
(ii)	In case source of fuel supply is to be	Complied
	changed at a later stage (now proposed on	MoEF&CC has amended the Environmental
	imported coal from South Africa) the	Clearance vide letter No. J-
	project proponent shall intimate the	13012/154/2008/IA.II (T) dated 13.03.2014 for
	Ministry Well in advance along with	Indigenous / Domestic Coal from Subsidiary
	concurrence for allowing the change in	Imported Coal with some additional
	such a case the necessity for re-	conditions. The compliance of the additional
	conducting public hearing may be decided	conditions is included in this compliance
	by the ministry in consultation with the	report.
	Expert Appraisal Committee.	
(iii)	Wildlife conservation plan shall be	A detail study of Wildlife conservation plan has
	the Chief Wildlife Warden concerned for	Biological study) by consultant in consultation
	implementation. Status of implementation	with forest department & conservation plan
	shall be submitted to the regional office of	already submitted to the Chief WildLife
	the ministry periodically.	Warden, Jaipur for approval. The Report also
		submitted to the DFO Baran.
		A copy of the conservation plan was
		submitted to your office along with Six
(iv)	Possibility for harnessing solar power	80 no. Solar light are installed near
	within the premises of the plant	hostel/residential area in first phase of solar
	particularly at available roof tops shall be	harnessing program.
	shall be submitted	residential complex
		10KW capacity Solar Panel is installed at
		rooftop of Administrative Building to harness
		solar energy for its consumption.
(v)	An equal area of grazing land proposed to	Complied
	be acquired for the project shall be	Development of waste land to grazing land in
	with the village Dapphayat and the district	village Kunjed of Atru Tensii is completed as
	administration before final acquisition of	(MJSA) as suggested by District Collector
	the said land.	Baran.
(vi)	Coal transportation to plant site shall be by	Being complied.

	rail. The project proponent shall take up	Coal is being transported to power plant
	the matter with the Railways and shall	through Rail only.
	submit action taken and implementation	
	status to the ministry from time to time.	
(vii)	Existing de-generated water bodies (if any)	Development of existing degenerated water
	in the study area shall be regenerated at	body in village Antana of Atru tehsil is
	the project proponent's expenses in	completed as proposal approved by District
	consultation with the state govt.	Collector, Baran under "Mukhyamantri Jal
		Swavlamban Abhiyan" (MJSA) vide letter no.
		2016/280-85 dated 09.02.2016.
		Existing seasonal water bodies within the
		study area is identified for regeneration under
		company's CSR programme by Adani
		Foundation and has been implemented in
		phased manner.
(viii)	Hydrogeology of the area shall be reviewed	Complied.
	annually from an institute / organization of	Hydrogeology of the area is being reviewed
	repute to assess impact of surface water	regularly. Last hydrogeology reviewed done in
	and ground regime (especially around ash	Year'2020 by third party to assess the surface
	dyke). In case and deterioration is observed	& ground regime. (Around ash dyke).
	specific mitigation measures shall be	Regular water quality monitoring is also being
	undertaken and reports / data of water	carried out by NABL accredited Consultant.
	quality monitored regularly and maintained	The water quality monitoring results is being
	shall be submitted to the Regional Office	submitted regularly along with Six Monthly
	of the Ministry.	Compliance reports.
(ix)	Source of water for meeting the	Water allocation from Parvan River for 34
	requirement during lean season shall be	MCM.
	specified and submitted to the Regional	This quantity is adequate to meet the plant's
	Office of the Ministry within three months	requirement, including lean season.
(x)	No ground water shall be extracted for use	Compiled.
	in operation of the power plant even in	No ground water was extracted during setting
	lean season.	up of power plant
(xi)	No water bodies (including natural	No water body was disturbed while setting up
	drainage system) in the area shall be	power plant.
	disturbed due to activities associated with	
	the setting up / operation of the power	
	plant.	
(xii)	Minimum required water flow suggested by	APRL has no role in the distribution of water
	the Competent Authority of the State Govt.	from Parvan irrigation Project. Water Resource
	shall be maintained in the Channel / Rivers	Department, Govt. of Rajasthan will maintain
	(as applicable) even in lean season.	the minimum required water flow during lean
		season.
(xiii)	Water requirement shall be restricted as	Complied
	per CEA norms and COC of 5.0 shall be	It has been incorporated in the plant design
	adopted.	and being maintained.
(xiv)	Regular monitoring of ground water level	Regular monitoring of ground water quality

	shall be carried out by establishing a	including heavy metals is being carried out in
	network of existing wells and constructing	and around the plant area by MoEFCC
	new piezometers. Monitoring around the	accredited agency and NABL accredited
	ash pond area shall be carried out	Environment laboratory of APRL.
	particularly for heavy metals (Hg, Cr, As, Pb)	Monitoring report is attached as Annexure-I .
	and records maintained and submitted to	Three Piezometric wells are established
	the Regional Office of this Ministry. The	around the ash nond. Record are being
	data so obtained should be compared with	maintained and attached as Annexure-II .
	the baseline so as to ensure that the	
	around water quality is not adversely	
	affected due to the project	
(~))	Monitoring surface water quality shall also	Being Complied
(xv)	ho socials and social and social and	Dening Complied.
	meiotoiced The meditored data shall be	Regular monitoring for surface and ground
	maintained. The monitored data shall be	water quality is being carried out including
	submitted to the Ministry regularly.	neavy metals in & around the ash pond and
	Further, monitoring points shall be located	nearby villagers, monitoring report enclosed
	between the plant and drainage in the	herewith as Annexure I.
	direction of flow of ground water and	
	records maintained. Monitoring for heavy	
	metals in ground water shall be	
	undertaken.	
(xvi)	A well designed rain water harvesting shall	Complied
	be put in place before commissioning of	Design for rain water harvesting scheme is
	the plant. Central Ground Water Authority /	prepared by Hydro-geo Survey Consultant-
	Board shall be consulted for finalization of	Jaipur and the same is submitted to Regional
	appropriate rainwater harvesting	Office of CGWB. Jaipur, MoEFCC regional
	technology / design within a period of	office, Lucknow and MoEFCC New Delhi.
	three months from the date of this	Rainwater harvesting pond already
	clearance and detail shall be furnished. The	constructed within the plant to store and
	design of rain water harvesting shall	reuses more than 1,20,000 m3 of water.
	comprise of rain water collection from the	
	built up and open area in the plant	
	premises. Action plan and road map for	
	implementation shall be submitted to the	
	Ministry within six months.	
(xvii)	Additional soil for leveling of proposed site	The entire plant area was almost flat and
	shall be generated within the sites (to the	having stony outcrop. There are no streams
	extent possible) so that natural drainage	within the plant premises.
	system of the area is protected and	
	improved.	
(xviii)	Provision for installation of FGD shall be	Space were provided for FGD in the plant
	provided for future use.	layout for further requirement.
		APRL is in process to install FGD and revised
		ICB has been issued to install FGD as per
		implementation schedule of CPCB as well as
		CEA.

(xix)	The project proponent shall undertake	Being complied.
	measures and ensure that no fugitive fly	The crusher houses for Coal are provided with
	ash emission take place at any point of	Dust Extraction System & Bag Filter. Dust
	time.	Suppression System (DSS) and Water
		Sprinkling System are provided in coal stock
		yard and ash dyke.
(xx)	Stack of 275 m height shall be installed and	Twin flue stack of 275 meter constructed.
	provided with continuous online	Continuous Emission Monitoring System
	monitoring equipments for SOx. NOx and	installed in both flues for SO ₂ , NOx, and PM,
	PM2.5 & PM10. Exit velocity of flue gases	The flue gas velocity is more than 22 m/sec.
	shall not be less than 22 m/s. Mercury	Ho monitoring in stack is being carried out by
	emissions from stack may also monitored	third party on quarterly basis. CEMS results
	on periodic basis	attached as Annexure IA
(yyi)	High Efficiency Electrostatic Precipitators	A high Efficiency Electrostatic Precipitators
	(ESDs) shall be installed to onsure that	has been provided to each boiler (ESPs) to
	asticulate emission does not exceed 50	most particulate emission loss than
		FOme/Nm3 ESD officionary is being observed
		by our operation department. Details of
		monitoring results as passing out by MoEE
		monitoring results as carried out by moer
		approved third party for our offic-1 and 2 &
		also same is being submitted to Statutory
		body on regular basis. All stack monitoring
		results are well within the prescribed limit
		which is showing efficiency of ESP.
(···)		Monitoring results are attached as Annexure I.
(xx11)	Adequate dust extraction system such as	Being Complied.
	cyclones / bag filters and water spray	Dust extraction system with bag filter in coal
	system in dusty areas such as in coal	crusher house has been provided. Pneumatic
	handling and ash handling points, transfer	ash handling system with bag filters provided
	areas and other vulnerable dusty areas	for ash handling. Water sprinkling system
	areas and other vulnerable dusty areas shall be provided.	for ash handling. Water sprinkling system provided in coal yard.
(xxiii)	areas and other vulnerable dusty areas shall be provided. Utilization of 100% Fly Ash generated shall	for ash handling. Water sprinkling system provided in coal yard. Ash utilization / implementation report being
(xxiii)	areas and other vulnerable dusty areas shall be provided. Utilization of 100% Fly Ash generated shall be made from 4th year of operation. Status	for ash handling. Water sprinkling system provided in coal yard. Ash utilization / implementation report being submitted to MoEFCC, CPCB, SPCB as well as
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(xxv)	Ash pond (if any) shall be lined with HDPE/LDPE lining or any other suitable	Ltd., TSG Ashtech Movers Pvt. Ltd., etc. Heavy metal analysis is being carried out for As, Pb, Hg, Cr Fe, Cu, Zn, Cd, and Ni in fly ash. Analysis report attached as Annexure-I. Well design ash pond with LDPE lining has been established as per guidelines of
	impermeable media such that no leachate takes place at any point of time. Adequate safety measures shall also be implemented to protect the ash dyke from getting breached.	MOEF/CEA/CPCB. Safety measure such as bund with toe wall and lining of side slope is done to prevent any leachate.
(xxvi)	Sulphur and ash contents in the imported coal to be used in the project shall not exceed 0.6 % and 34 % respectively at any given time. In case of variation of coal quality at any point of time fresh reference shall be made to Ministry for suitable amendments to environmental clearance condition wherever necessary.	Complied EC amended on 13.03.2014 for change in the fuel quality & source.
(xxvii)	Green Belt consisting of 3 tiers of plantations of native species around the plant of atleast 75 m width shall be raised (except in areas not feasible). The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.	Green belt / plantation is being developed. Our efforts are to develop more greenery in and around the plant premises. Full-fledged horticulture department is established under the guidance of the experienced horticulturist in consultation with the local forest department for the development of green belt / plantation has been established. About 113526 tree saplings have been planted and achieved 90% survival rate.
(xxviii)	Over and above the green belt, as carbon sink, social forestry shall be carried out in close consultation with the Forests Department. The project proponent shall accordingly identify blocks of land / degraded forests and shall undertake regeneration of degraded forests at a large scale. In pursuance to this the project proponent shall formulate time bound action plan along with financial allocation and shall submit status of implementation to the Ministry within six months.	Green Belt report enclosed as Annexure-IV Social forestry with active participation of the villagers and school children are being carried out in close consultation with Forest Department, Action plan regarding social forestry and regeneration of degraded forest is under implementation. Planted 1200 Saplings along with the NH-90 in association with forest department. About 500 trees are also planted in school campus & villages.
(xxix)	Atleast three nearest village shall be adopted and basic amenities like development of roads, drinking water	Baldevpura, Kawai, Salpura, Khedli Gaddiyan and Nimoda are adopted for development of basic amenities in co-ordination with the

	supply, primary health centre, primary	district administration. Beside 41 Schools, 2
	school etc. shall be developed in co-	PHC, 1 CHC of surrounding Gram Panchayats
	ordination with the district administration.	are adopted in association with district
		administration of Govt. of Rajasthan.
(xxx)	The project proponent shall also	Being Complied
	adequately contribute in the development	Need based assessment study report have
	of the neighboring villages. Special	been conducted in FY 2021-22.
	package with implementation schedule for	Recommendation made in the report are being
	providing free potable drinking water	implemented by Adani Foundation. Detailed
	supply in the nearby villages and schools	report enclosed as Annexure V
	shall be undertaken in a time bound	
	manner.	
(xxxi)	CSR schemes shall be undertaken based on	Based on the need-based assessment report
	need assessment in and around the villages	under the CSR, recommendations made in the
	within 5 km of the site and in constant	CSR report are being implemented by Adani
	consultation with the village Panchayat	Foundation.
	and the District Administration. As part of	Main Focus has been given on Education,
	CSR prior identification of local employable	Health, Alternative Livelihood and Rural
	youth and eventual employment in the	Infrastructure.
	project after imparting relevant training	Detailed report enclosed as Annexure V
	shall be also undertaken.	
(xxxii)	It shall be ensured that an in-built	The implementation of CSR activities carried
	monitoring mechanism for the CSR	out by Adani Foundation. Implementation /
	schemes identified is in place and annual	achievement of CSR activities are being
	social audit shall be got done from the	submitted along with EC compliance on
	nearest government institute of repute in	regular basis.
	the region. The project proponent shall also	Detailed report enclosed as Annexure V
	submit the status of implementation of the	
	scheme from time to time. The	
	achievements should be put on company's	
	website.	
(xxxiii	An amount of Rs 28.0 Crores shall be	Separate budget has been earmarked for CSR
)	earmarked as one time capital cost for CSR	activities.
	programme as committed by the project	CSR activities are being carried out by Adani
	proponent. Subsequently a recurring	Foundation.
	expenditure of Rs 5.6 Crores per annum	CSR report and expenditures for period Oct-
	shall be earmarked as recurring	2021 to Mar-22 is attached as Annexure V &
	expenditure for CSR activities. Details of	VIII respectively.
	the activities to be undertaken shall be	
	submitted within six month along with road	
	map for implementation.	
(xxxiv	It shall be ensured that in-built monitoring	Being Complied.
	mechanism for the schemes identified is in	Social audit report is prepared by Indian
	place and annual social audit shall be got	Institute of Social Welfare and Business
	done from the nearest government	Management of University of Kolkata.
	institute of repute in the region. The	Audit report is submitted along with six

	project proponent shall also submit the	monthly compliance report.
	status of implementation.	
Additio	nal Specific Conditions	
(xxxv)	The Coal transportation by road shall be	Coal is being transported by Rail up to Plant
	through tarpaulin covered trucks for a	premises.
	maximum period of two years and hence	
	forth shall be only through mechanically	
	covered trucks.	
(xxxvi	Avenue plantation of 2/3 rows all along the	2 Tier greenbelt as avenue plantation has been
)	road shall be carried out by project	developed up to 3KM distance along both side
	proponent at its own expenses.	of nearest NH-90.
(xxxvii	Periodic maintenance of the road shall be	We are maintained the approach road from
)	done by the project proponent at its own	plant main gate to the nearest highway (NH-
	expenses and shall also facilitate the	90) and linked road to plant.
	traffic control on the road.	
(xxxvii	Sulphur and ash contents in the domestic	Being Complied
i)	coal to be used in the project shall not	Half yearly & annual reports of Ash Utilization
	exceed 0.4% and 33% at any given time. In	& ash content in coal being submitted
	case of variation of coal quality at any	MoEFCC and Central Electricity Authority
	point of time, fresh reference shall be	(CEA) since plant operation.
	made to the ministry for suitable	Please refer attached Annexure-III.
	amendments to environmental clearance	
	condition wherever necessary.	
(xxxix	A long term study of radio activity and	Being Complied
	heavy metals contents on coal to be used	Test results of coal samples for radio activity
	shall be carried out through a reputed	and heavy metal report submitted along with
	Institute. Thereafter, mechanism for an in-	previous compliance report.
	Dulit continuous monitoring for radio	
	activity and neavy metals in coal and fly	
	ash (including bottom ash) shall be put in	
()()	place.	Color streat light good administrative building
(XI)	namessing solar power within the	solar screet light hear administrative building
	premises of the plant particularly at	
	status of implementation shall be	
	submitted periodically to the Periodal	
	Office of the Ministry	
(yli)	Funitive emissions shall be controlled to	Being Complied
	nrevent impact on anriculture or pop-	Adequate air collution control measures such
	anciculture land	as Dust Extraction System (DES) Dust
		Suppression System Wind Shield water
		sprinkling & Fog canon system have been
		provided to meet particulate matter emission
		within the norms.
(xlii)	Fly ash shall not be used for agriculture	The generated fly ash is being used by cement
	purpose. No mine void fillina will be	industries as per 'Fly Ash Notification'.
(xiii)	Fly ash shall not be used for agriculture purpose. No mine void filling will be	Adequate air pollution control measures such as Dust Extraction System (DES), Dust Suppression System, Wind Shield, water sprinkling & Fog canon system have been provided to meet particulate matter emission within the norms. The generated fly ash is being used by cement industries as per 'Fly Ash Notification'.

	undertaken as an option for ash utilization without adequate lining of mine with	Copy of annual data on fly ash generation & utilization is being submitted to MoEFCC,
	suitable media such that no leachate shall	CPCB, and SPCB & Central Electricity
	take place at any point of time. In case, the	Authority (CEA).
	option of mine void filling is to be adopted,	
	prior detailed study of soil characteristics	Fly Ash generation & utilization is attached as
	of the mine area shall be undertaken from	Annexure III.
	an institute of reputed and adequate clay	
	lining shall be ascertained by the State	
	Pollution Control Board and	
	implementation done in close co-ordination	
	with the State Pollution Control Board.	
(xliii)	Three tier green belt shall be developed all	Plantation all along ash dyke is taken up by
	around Ash Pond over and above the Green	seed broadcasting of species like Subabol,
	Belt around the plant boundary and	Jatropha and Desi Babool. Slope of ash dyke is
	grassing shall be done on the ash mound.	covered with grass to avoid soil erosion.
(xliv)	An Environmental Cell be created at the	Being Complied
	project site itself and shall be headed by an	We have already established an Environmental
	officer of the company of appropriate	Management Cell headed by Manager &
	seniority and qualification. It shall be	supported by Env. Engineer, Officer, Chemist &
	ensure that the head of the Cell directly	Horticulturist. We have NABL accredited
	report to the Head of the Organization. The	Laboratory. Certificate Number- TC-5235
	Environmental Cell shall be responsible and	issued on dated 28/08/2019.
	accountable for implementation of all the	NABL certificate attached as Annexure-VII.
	conditions given in the EC including in the	
	amendment letter.	
(xlv)	The project proponent shall formulated a	Corporate level Environmental Policy has been
	Well laid Corporate Environmental Policy	developed to implement EMIS (Environmental
	and identify and designate responsible	Management System) as per ISO 14001-2015.
	officers at all levels of its hierarchy for	Environmental Management System as per
	ensuring autherence to the policy and	EMS ISO 14001 Implemented integrated
	is this classoper latter and other applicable	management System (IMS) is also
	any icongental laws and coulations	implementeo.
B	General Conditions:	
(i)	The treated effluents confirming to the	ETP has been established (Capacity, 226
	ne created emberits commining to the	m3/br based on primary treatment) to treat
	circulated and reused within the plant	effluents and treated water reuses within the
	Arrangements shall be made that effluents	nremises The concent of "Zero Discharge
	and storm water do not get mixed	Condition" is implemented except during non-
		monsoon period. Separate drainage petwork is
		established for storm water.
(ji)	A sewage treatment plant shall be provided	Sewage Treatment Plant has been established
(1)	(as applicable) and the treated sewage	inside the plant & treated domestic water is
	shall be used for raising greenhelt /	suitably reused within the plant premises in
	plantation.	plantation / green belt development.
	plantation.	plantation / green belt development.

			Particular	Capacity	Total	Technology	
			CTD	120 81 0		Mikio	_
			517	(10 x 2 KLD)	140	Bioreactor	
(iii)	Adequate safety measures shall be	Ad	equate s	afety team	has bee	n established	l in
	provided in the plant area to check /	pla	nt site t	o take prev	entive co	ontrol measur	es.
	minimize spontaneous fires in coal yard,	Fire	e hydra	ant syster	n for	fire-fighting	is
	especially during summer season. Copy of	pro	ovided i	n plant	layout.	Fire & Safe	ety
	these measures with full details along with	dep	partmen	t made av	vailable	with 3 no.	of
	location plant layout shall be submitted to	fire	efighting	tanker equ	Jipped w	ith all necess	ary
	the Ministry as well as to the Regional	cor	ntrol sysl	tem.			
	Office of the Ministry.						
(iv)	Storage facilities for auxiliary liquid fuel	The	e fuel Ll	DO and HF	O are pr	operly stored	l in
	such as LDO and / HFO / LSHS shall be	mir	nimum ri	sk area an	d as per	the norms fix	ked
	made in the plant area in consultation with	by	the Chie	f Controlle	r of Explo	osives.	
	Department of Explosives, Nagpur. Sulphur	A	disaster	managen	nent pla	in is prepa	red
	content in the liquid fuel will not exceed	CO/	vering al	the event	ualities d	ue to storage	e of
	0.5%. Disaster Management Plan shall be	oil.					
	prepared to meet any eventuality in case of	lt i	s ensure	d that sulp	hur cont	ent is less th:	าอก
	an accident taking place due to storage of	0.5	5% in liqu	id fuel.			
	oil.	Exp	plosive l	icence/ ce	rtificate	is attached	as
		An	nexure-l	X .			
(v)	First Aid and sanitation arrangements shall	Firs	st Aid as	well as OF	IC establ	ished with w	ell-
	be made for the drivers and other contract	equ	uipped	Ambulance	and qu	Jalified Doct	tor.
	workers during construction phase.	Ho	usekeep	ing and s	sanitatio	n facilities a	are
		ava	ailable f	or the d	rivers a	nd contract	ual
		wo	rkers du	ring constr	uction.		
(vi)	Noise levels emanating from turbines shall	Ne	cessary	action ha	is been	taken care	to
	be so controlled such that the noise in the	ma	intain no	oise levels i	in work z	one area wit	hin
	work zone shall be limited to 85 dB(A) from	85	dB(A)	from sou	irce dui	ing the pla	ant
	source. For people working in the high	ope	eration.	The person	al prote	ctive equipme	ent
	noise area, requisite personal protective	(PF	PE) is p	rovided to	worker	s & employe	ees
	equipment like earplugs / ear-muffs etc.	wo	rking in	noisy areas	s. Noise	level monitor	ing
	shall be provided. Workers engaged in	is (carried (out regular	'ly. Perio	dic audiomet	tric
	noisy area such as turbine area, air	che	eck-up is	carried ou	t.		
	compressors etc. shall be periodically	Oc	cupatior	al Health	& Safet	y Manageme	ent
	examined to maintain audiometric record	Sys	stem as p	per ISO 450)01 as im	plemented.	
	and for treatment for any hearing loss						
	including shifting to non-noisy / less noisy						
	area.						
(vii)	Regular monitoring of ambient air ground	Re	gular Ei	nvironment	al moni	toring of S	02,
	level concentration of SO2, NOx, PM2.5 &	NO	x, PM2.	5 & PM10	and Hg	is being carr	ied
	PM10 and Hg shall be carried out in the	out	t by thir	d party En	v. Lab. T	he Ambient	Air
	impact zone and records maintained. If at	Qu	ality Mo	nitoring loc	ations a	e establishec	ni t
	any stage these levels are found to exceed	cor	nsultatio	n with RPC	В.		
	the prescribed limits, necessary control	Ful	ll fledge	Environme	ntal Lab	for Air & Wa	ter

	measures shall be provided immediately.	has been established. Monitoring reports
	The location of the monitoring stations and	attached as Annexure I.
	frequency of monitoring shall be decided in	
	consultation with SPCB. Periodic reports	
	shall be submitted to the Regional Office	
	of this Ministry. The data shall also be put	
	on the website of the company.	
(viii)	Provision shall be made for the housing of	During construction, provision was made for
	construction labour (as applicable) within	common facilities to labours as toilets, safe
	the site with all necessary infrastructure	drinking water, medical health care etc. who
	and facilities such as fuel for cooking.	were engaged for construction.
	mobile toilets, mobile STP, safe drinking	
	water, medical health care, crèche, etc. The	
	housing may be in the form of temporary	
	structure to be removed after the	
	completion of the project.	
(ix)	The project proponent shall advertise in at	Complied
	least two local newspapers widely	Advertised in local daily News Paper 'Dainik
	circulated in the region around the project,	Bhaskar and Rajasthan Patrika' on 10th May
	one of which shall be in the vernacular	2011 in Hindi.
	language of the locality concerned within	
	seven days from the date of this clearance	
	letter, informing that the project has been	
	accorded environmental clearance and	
	copies of clearance letter are available with	
	the State Pollution Control Board /	
	Committee and may also be seen at	
	website of the Ministry of Environment and	
	Forest at <u>http://envfor.nic.in</u>	
(x)	A copy of clearance letter shall be sent by	Complied
	the proponent to concern Panchayat, Zila	Copy of clearance letter has been submitted
	Parisad / Municipal Corporation, urban	to Kawai Village Panchayat and Zila Parishad,
	local Body and the Local NGO, if any, from	Baran.
	whom suggestions / representations, if any,	
	received while processing the proposal.	
	The clearance letter shall also be put on	
	the website of the Company by the	
	proponent.	
(xi)	An Environmental Cell comprising of at	Being Complied.
	least one expert in environmental science /	We have already established an Environmental
	engineering, occupational health and social	Management Cell headed by Manger &
	scientist, shall be created at the project	supported by Env. Engineer Officer, Chemist &
	site itself and shall be headed by an officer	Horticulturist. Full fledge Environment Lab (Air
	of appropriate superiority and qualification.	& Water) has been established.
	It shall be ensured that the head of the Cell	Environmental Management System as per
	shall directly report to the head of the	EMS ISO: 14001 implemented.

	organization and he shall be held responsible for implementation of environmental regulations and social impact improvement / mitigation measures.	
(xii)	The proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same	Six monthly Environmental Clearance compliance status report is regularly submitted to MoEFCC, CPCB and SPCB. The same is sent by email also.
	periodically. It shall simultaneously be sent to the Regional Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM (PM2.5 & PM10), SO2, NOx (ambient levels as well as stack emissions) shall be displayed at a convenient location near the main gate of the company in the public domain	Compliance status updated on company's website <u>www.adanipower.com</u>
(xiii)	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environmental (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of the Ministry by e-mail.	Environment Statement had been submitted with vide letter no APRL/PK/GOVT/RSPCB/ 00568, dated-22.09.2021.
(xiv)	The project proponent shall submit six monthly reports on the status of the implementation of the stipulated environmental safeguards to the Ministry of Environment and Forest, its Regional Office, Central Pollution Control Board and State Pollution Control Board. The project proponent shall upload the status of compliance of the environmental of the environmental clearance conditions on their website and update the same periodically and simultaneously send the same by e-mail to the Regional Office, Ministry of Environment and Forest.	Six monthly compliance on the Environment Clearance granted by MoEF is being submitted to MoEF, CPCB & RSPCB regularly. Compliance status updated on company's website. Compliance report for the period of April'2021 to September'2021 had been submitted to your good office vide letter no.: APL/APRL/EMD/EC/MoEF/241/11/21 dated 21.11.2021
(xv)	Regional Office of the Ministry of Environment & Forest will monitor the	Noted Compliance assured

	implementation of the stipulated	
	conditions. A complete set of documents	
	including Environmental Impact	
	Assessment Report and Environmental	
	Management Plan along with additional	
	information submitted from time to time	
	shall be forwarded to the Regional Office	
	for their use during monitoring. Project	
	proponent will up-load the compliance	
	status in their website and up-date the	
	same from time to time at least six monthly	
	basis. Criteria pollutants levels including	
	NOx (from stack & ambient air) shall be	
	displayed at the main gate of the power	
	plant.	
(xvi)	Separate funds shall be allocated for	Being Followed.
	implementation of environmental	Separate fund has already been allocated and
	protection measures along with item-wise	being utilize for Environmental Protection.
	break-up. These cost shall be included as	Environment protection measures (EMP &
	part of the project cost. The funds	CER) Expenditure (Oct- 2021 to Mar- 2022) is
	earmarked for the environment protection	attached as Annexure-VIII.
	measures shall not be diverted for other	
	purposes and year-wise expenditure should	
	be reported to the Ministry.	
(xvii)	The project authorities shall inform the	Complied
	Regional Office as well as the Ministry	
	regarding the date of financial closure and	
	final approval of the project by the	
	concerned authorities and the dates of	
	scart of land development work and	
(sadiii)		Notod
	Full cooperation shall be extended to the	NULEU,
	Pagional Office of the Ministry at	run co-operación snañ de excendeo.
	Pajasthan / CDCR / SDCR who would be	
	monitoring the compliance of	
	environmental status	

SIX MONTHLY COMPLIANCE REPORT ON ENVIRONMENTAL MONITORING

as

AMBIENT AIR QUALITY,

WATER QUALITY, SOIL QUALITY AND NOISE LEVEL

for

adani

ADANI POWER RAJASTHAN LIMITED

(2x660 MW- SUPERCRITICAL THERMAL POWER STATION)

Near Salpura Railway Station, Tehsil Atru,

District Baran (Rajasthan)

PREPARED BY:



(A UNIT OF TEAM Institute of Science & Technology Pvt. Ltd.) G1-584, RIICO INDUSTRIAL AREA, SITAPURA, TONK ROAD, JAIPUR - 302022, RAJASTHAN

Approved by Ministry of Environment & Forest (Govt.of India) And Rajasthan State Pollution Control Board Accreditated by National Accreditation Board for Testing & Calibration Laboratories Certified by ISO 9001: 2008

PERIOD: October 2021 to March 2022

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1 EXECUTIVE SUMMARY

ADANI group has constructed 2 units of 660 MW Supercritical Thermal Power Station at Village, Kawai in Tehsil, Atru of District Baran (Rajasthan). The plant is designed to generate 2x660MW electricity. The site is located Near Salpura Railway Station in district Baran (Rajasthan). The plant is well connected by Road and Rail network with different part of Rajasthan and adjoining states, at present both units are in operation.

M/s Adani Power Rajasthan limited has awarded environmental monitoring job work to

M/s Team Instituteof Science and Technology (Unit - Team Test House)

vide Service Order No 5700295971 dated 03/04/2021 for Sampling/Monitoring and Testing of Environmental parameters on quarterly basis for the period 01/04/2021 to 31/03/2023.

The samples for determination of quality of Ambient Air analysis, Ground Water, Soil, Source Emission, Noise, etc are collected from Site and analysed at **Team Test House**, Jaipur.

The overall results for Third and Fourth quarter are found to be satisfactory. The plant was performing well during the monitoring and environmental parameters in each segment like Ambient Air, Emission Air, Soil, Water, and Noise are found to be within the desired limits.

Authorized Signatory

2 BRIEF DESCRIPTION OF ADANI POWER AND KAWAI THERMAL POWER STATION

2.1 ADANI THERMAL POWER STATION

Adani, a conglomerate with a formidable presence in multiple businesses across the globe, has entered the power sector to harbinger a 'Power Full' India, by generating 20,000 MW of power by 2020. Comprehension of the criticality in meeting the power requirement and its crucial role in ensuring the energy security of India, spurs us to build India's largest and one of the world top 5 single location thermal power plant in Mundra.

Adani Power Limited has commissioned the first supercritical 660 MW unit in the country. Mundra is also the WORLD'S FIRST supercritical technology project to have received 'CLEAN DEVELOPMENT MECHANISM (CDM) Project' certification from United Nations Framework Convention on Climate Change (UNFCCC).

2.2 KAWAI THERMAL POWER STATION

Adani Enterprises Limited (AEL) have signed MoU with Energy Department, Government of Rajasthan on 20th March, 2008 for developing a Thermal Power Project of 1320 MW capacity near Kawai, District Baran, Rajasthan. For this purpose Adani Enterprises Limited (AEL) has registered Adani Power Rajasthan Limited (APRL), as a subsidiary company to Adani Power Limited (APL). The site is approximately 120 km from Kota and 40 Kms from Baran.

The plant is covered in around 350 Ha. area. The possession of 350 Ha has been already given to APRL by Govt. of Rajasthan. The coal and water requirement of the plant is 5.6 MTPA and 34 MCM respectively.

Both imported and domestic coal is being used. Water is drawn through a dedicated pipeline from the PARWAN River located at a distance of about 15 km from plant.

State	Rajasthan
District	Baran
Villages	Kawai
Land type	Barren and Stony Waste Land
Geographical Co-ordinates	24º 46' 14.62" N & 76º 44' 28.60" E.



Location Map

5

Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.10.2021	26	35.1	53	94.4	0
02.10.2021	25	32.1	69.4	95.4	25.5
03.10.2021	25	35.4	51.3	98.4	0
04.10.2021	26	36.1	52	94.5	0
05.10.2021	27.3	35.3	52.2	89.2	0
06.10.2021	28	37.2	46.2	91.4	0
07.10.2021	27	37.4	38	90.1	0
08.10.2021	26	37.5	34.2	89.3	0
09.10.2021	24.2	36.5	31.2	86.1	0
10.10.2021	25	37.5	29.2	82.6	0
11.10.2021	24	38.2	27.2	82.6	0
12.10.2021	23.3	37.4	31	80	0
13.10.2021	25	36.5	28.2	79.4	0
14.10.2021	25.2	35.5	18.2	69.2	0
15.10.2021	21	35.4	23.2	76.6	0
16.10.2021	22	36.1	30	69.5	0
17.10.2021	25.4	36.3	44.5	96.1	5
18.10.2021	24	29.3	71	96.4	23.5
19.10.2021	23.2	31.6	58.2	98.1	0
20.10.2021	23	32.3	46	94.3	0
21.10.2021	20.6	34.5	31.1	85.2	0
22.10.2021	21	33.3	31.4	82.3	0
23.10.2021	21.2	32.4	32.6	80.2	0
24.10.2021	21	32.1	35.2	83.1	0
25.10.2021	21	33.3	35.5	85	0
26.10.2021	22.1	32.5	37	82.4	0
27.10.2021	22	32.5	27	80.6	0
28.10.2021	18.1	32.2	28.3	78.3	0
29.10.2021	19	31.6	26.2	77.3	0
30.10.2021	18.1	31	28.1	73.5	0
31.10.2021	17	32.6	20.3	79.1	0
Max.	28	38.2	71	98.4	
Min.	17	29.3	18.2	69.2	54



AVERAGE DAIL	Y METEROLOGICAL	DATA OF	November ·	·2021
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Date	Temp		Relative	Relative Humidity		
	Min	Max	Min	Max	Total	
01.11.2021	18.1	34.2	19.0	58.3	0.0	
02.11.2021	19.0	33.1	22.6	62.0	0.0	
03.11.2021	18.2	32.4	22.0	60.1	0.0	
04.11.2021	18.1	32.5	21.0	67.1	0.0	
05.11.2021	19.1	33.1	23.1	64.6	0.0	
06.11.2021	18.2	30.6	22.5	63.1	0.0	
07.11.2021	16.1	31.3	25.3	71.3	0.0	
08.11.2021	17.2	33.2	23.0	72.6	0.0	
09.11.2021	18.1	32.6	23.2	70.1	0.0	
10.11.2021	17.2	32.3	19.2	71.1	0.0	
11.11.2021	17.2	33.2	23.0	65.0	0.0	
12.11.2021	17.2	30.2	31.0	65.0	0.0	
13.11.2021	16.3	29.6	27.0	68.3	0.0	
14.11.2021	17.1	29.2	25.2	68.0	0.0	
15.11.2021	16.1	28.5	26.0	68.0	0.0	
16.11.2021	16.1	28.4	25.3	63.4	0.0	
17.11.2021	16.5	27.6	35.2	64.1	0.0	
18.11.2021	18.0	26.1	44.6	97.3	15.5	
19.11.2021	18.1	25.5	64.1	97.4	0.5	
20.11.2021	19.3	25.3	68.1	97.5	0.0	
21.11.2021	19.0	30.0	47.2	97.1	0.0	
22.11.2021	21.1	29.6	41.0	92.2	0.0	
23.11.2021	17.0	31.0	36.4	92.0	0.0	
24.11.2021	17.0	31.6	37.0	84.0	0.0	
25.11.2021	18.0	29.2	38.3	70.3	0.0	
26.11.2021	16.0	31.0	28.1	89.0	0.0	
27.11.2021	17.0	31.3	25.5	72.1	0.0	
28.11.2021	18.1	31.3	27.1	67.3	0.0	
29.11.2021	17.1	29.3	32.0	71.0	0.0	
30.11.2021	17.0	27.5	32.2	71.0	0.0	
Max.	21.1	34.2	68.1	97.5		
Min.	16.0	25.3	19.0	58.3	16.0	



Date	Temp (Deg C)		Relativ	Relative Humidity (%)	
	Min	Max	Min	Max	Total
01.12.2021	18.1	22.5	55.1	82.0	0.0
02.12.2021	17.6	20.6	68.0	93.3	0.5
03.12.2021	16.0	24.1	53.0	92.1	0.0
04.12.2021	15.2	27.2	49.0	87.4	0.0
05.12.2021	18.0	28.5	41.2	79.1	0.0
06.12.2021	19.2	27.5	51.2	85.1	0.0
07.12.2021	17.1	27.0	39.0	88.5	0.0
08.12.2021	14.2	25.5	41.3	86.4	0.0
09.12.2021	15.0	26.2	39.0	71.2	0.0
10.12.2021	15.0	25.4	36.2	76.2	0.0
11.12.2021	12.1	25.4	34.3	90.2	0.0
12.12.2021	12.2	26.3	38.0	83.3	0.0
13.12.2021	14.0	27.6	42.2	80.2	0.0
14.12.2021	17.0	27.2	48.5	78.4	0.0
15.12.2021	16.0	25.3	53.3	84.0	0.0
16.12.2021	16.2	26.4	54.2	89.5	0.0
17.12.2021	16.2	29.3	39.2	86.0	0.0
18.12.2021	14.2	22.1	24.2	82.3	0.0
19.12.2021	7.2	23.2	28.0	86.3	0.0
20.12.2021	9.1	24.5	24.2	80.5	0.0
21.12.2021	10.1	27.3	26.5	81.2	0.0
22.12.2021	11.1	27.4	30.2	81.1	0.0
23.12.2021	14.0	28.5	33.1	76.0	0.0
24.12.2021	15.1	25.3	52.1	75.3	0.0
25.12.2021	14.0	27.2	36.1	93.2	0.0
26.12.2021	15.1	27.1	41.2	81.3	0.0
27.12.2021	15.1	22.3	61.3	90.1	0.0
28.12.2021	15.1	22.3	43.3	99.2	20.0
29.12.2021	13.0	20.0	67.0	97.0	0.0
30.12.2021	11.3	20.5	54.3	96.5	0.0
Max.	19.2	29.3	68.0	99.2	
Min.	7.2	20.0	24.2	71.2	20.5

AVERAGE DAILY METEROLOGICAL DATA OF December -2021



Date	Temp (Deg C)		Relative (%	Rainfall (mm)	
	Min	Max	Min	Max	Total
01.01.2022	13.0	23.1	48.1	96.6	0
02.01.2022	13.0	23.6	47.4	93.2	0
03.01.2022	12.3	24.3	39.5	92.1	0
04.01.2022	12.4	25.2	41.5	92.1	0
05.01.2022	16.0	26.5	47.0	89.0	0
06.01.2022	17.2	21.6	85.2	97.4	11
07.01.2022	16.0	24.3	72.5	97.2	4.5
08.01.2022	17.1	25.0	70.3	95.6	2
09.01.2022	14.0	19.3	71.0	97.0	0
10.01.2022	10.0	18.0	72.1	96.6	0
11.01.2022	8.1	18.2	67.0	96.5	0
12.01.2022	10.2	20.5	51.5	95.5	0
13.01.2022	8.3	21.2	52.2	96.4	0
14.01.2022	10.2	21.5	43.2	94.5	0
15.01.2022	10.3	21.4	47.4	91.2	0
16.01.2022	9.2	14.3	85.1	96.5	0
17.01.2022	10.0	15.2	80.0	96.5	0
18.01.2022	8.0	14.4	87.4	96.6	0
19.01.2022	7.0	25.5	34.3	96.4	0
20.01.2022	13.0	27.1	37.2	85.2	0
21.01.2022	11.0	22.1	66.4	96.5	0
22.01.2022	16.3	25.6	38.3	95.1	0
23.01.2022	15.0	20.2	51.0	92.0	0
24.01.2022	10.1	19.5	51.4	92.6	0
25.01.2022	9.6	21.3	36.6	90.2	0
26.01.2022	9.1	21.4	34.3	92.2	0
27.01.2022	8.2	21.4	34.1	87.0	0
28.01.2022	9.0	23.6	31.5	87.3	0
29.01.2022	9.0	26.0	29.2	87.5	0
30.01.2022	10.0	28.3	30.0	90.4	0
31.01.2022	12.5	28.1	31.2	80.5	0
Max.	17.2	28.3	87.4	97.4	
Min.	7.0	14.3	29.2	80.5	17.5

AVERAGE DAILY METEROLOGICAL DATA OF January -2022



Date	Temp (Deg C)		Relative Humidity (%)		Rainfall (mm)
	Min	Max	Min	Max	Total
01.02.2022	14.1	28.5	43.3	79.1	0
02.02.2022	14.2	30	28	94.1	0
03.02.2022	16.2	28.5	29	81.5	0
04.02.2022	11.1	25.3	29	84.2	0
05.02.2022	10	26.1	22.3	82	0
06.02.2022	12.2	27.4	29.3	83.4	0
07.02.2022	13.1	28.5	27.1	80.2	0
08.02.2022	14	30	29.1	78	0
09.02.2022	14.2	27.3	42.3	83	0
10.02.2022	13.1	25.3	39.1	96.4	0
11.02.2022	11.1	22.4	39.1	88.2	0
12.02.2022	11	27	25	84.3	0
13.02.2022	11	28.3	23.1	84.1	0
14.02.2022	13.1	29.2	28	71.5	0
15.02.2022	11	29.2	23.1	96.4	0
16.02.2022	14.3	29	24	75.2	0
17.02.2022	14.5	29.2	21.1	69.4	0
18.02.2022	14.3	29.2	21.1	75.2	0
19.02.2022	14.3	31.3	27.3	75.2	0
20.02.2022	14.1	30.6	21	76	0
21.02.2022	14.1	32.5	18	69.5	0
22.02.2022	17.3	34	22.2	69.1	0
23.02.2022	18	33.3	28	66.1	0
24.02.2022	18.1	31	33.6	78	0
25.02.2022	17	33.1	25	77.3	0
26.02.2022	19.1	34.2	19.5	63.2	0
27.02.2022	18	30.3	33.3	81.2	0
28.02.2022	18	29.3	21.1	74.1	0
Max.	19.1	34.2	43.3	96.4	
Min.	10	22.4	18	63.2	0

AVERAGE DAILY METEROLOGICAL DATA OF February- 2022



Date	Te (De	mp g C)	Relative (%	Relative Humidity (%)		
	Min	Max	Min	Max	Total	
01.03.2022	13	32.3	18.2	68.4	0	
02.03.2022	16	33.2	24.2	62.6	0	
03.03.2022	18	34.3	26.4	69	0	
04.03.2022	17.2	32.3	28.5	74.1	0	
05.03.2022	16.1	31.5	20.2	72.1	0	
06.03.2022	16	34	17	70	0	
07.03.2022	20	36.1	20.3	59.5	0	
08.03.2022	20.2	36.1	23	64	0	
09.03.2022	19.3	35.5	26.4	80.5	1.5	
10.03.2022	18.1	33	26	87.2	0	
11.03.2022	18.1	35.5	26.4	87.2	0	
12.03.2022	19	35	22	67.6	0	
13.03.2022	18	36.6	20.1	77.2	0	
14.03.2022	21.2	38.5	18.2	60.1	0	
15.03.2022	22	39.5	15.1	55.1	0	
16.03.2022	23.1	39.5	17	49.1	0	
17.03.2022	23.2	40.3	16.2	52.3	0	
18.03.2022	23	40.4	20.2	55.1	0	
19.03.2022	25	40.3	20	58.2	0	
20.03.2022	24	39.6	13	42.4	0	
21.03.2022	22.3	39.6	12.4	46.2	0	
22.03.2022	23.3	39.4	14.2	45.4	0	
23.03.2022	24.2	40.1	16	44.2	0	
24.03.2022	27.2	35.5	21	41.2	0	
25.03.2022	22.1	39.4	14.1	54.1	0	
26.03.2022	24.2	39.6	11.2	39.2	0	
27.03.2022	22.1	40.2	9.1	38.5	0	
28.03.2022	24	41.5	9.3	32.2	0	
29.03.2022	24.2	42.1	10.3	32	0	
30.03.2022	25	42.4	10.1	32.2	0	
31.03.2022	26.2	42.5	12.1	32.2	0	
Max.	27.2	42.5	28.5	87.2		
Min.	16	31.5	9.1	32	1.5	

AVERAGE DAILY METEROLOGICAL DATA OF March- 2022



4 AMBIENT AIR QUALITY

Air quality monitoring is carried out to assess the extent of pollution, ensure compliance with national legislation, evaluate control options, and provide data for air quality modeling. There are a number of different methods to measure any given pollutant, varying in complexity, reliability, and detail of data.

The locations for monitoring stations depend on the purpose of the monitoring. Most monitoring networks are designed with human health objectives in mind, and monitoring stations are therefore established in population centre.

The measurements were conducted during the period of October 2021 to March 2022.

The air samples were analyzed as per the standard methods specified by Central Pollution Control Board (CPCB) and IS: 5182. The techniques used for ambient air quality monitoring are given in table as below:

TABLE 3.1 TECHNICAL PROTOCOLS USED FOR AMBIENT AIR QUALITY MONITORING.

S. No.	Parameter	Protocol Followed
1	Particulate Matter, PM ₁₀ , µg/m ³	IS: 5182 (P-23)
2	Particulate Matter, PM _{2.5} , µg/m ³	CPCB Guidelines (Gravimetric Method)
3	Nitrogen Dioxide (NO2), μg/m³	IS: 5182 (P-6)
4	Sulphur Dioxide (SO ₂), µg/m³	IS: 5182 (P-2)
5	Carbon Monoxide, µg/m³	IS: 5182 (P-10)
6	Ammonia, µg/m³	CPCB Guidelines
7	Ozone, µg/m³	APHA 1977, Part819
8	Lead, µg/m³	IS: 5182 (P-22)
9	Arsenic, ng/m ³	IS: 5182 (P-22)
10	Nickel, ng/m ³	IS: 5182 (P-22)
11	Benzene, µg/m³	IS: 5182 (P-11)
12	Benzo-alfa-pyrene, ng/m³	CPCB Guidelines
13	Mercury (Hg), ng/m ³	APHA 2012 : 3112 B

4.1 AMBIENT AIR QUALITY RESULTS

The detailed on-site monitoring results of PM10, PM2.5, SOx, NOx and Hg are presented in table as given below:

TABLE 3.2: AMBIENT AIR QUALITY MONITORING RESULTS	TABLE 3.2 :	AMBIENT	AIR	QUALITY	MONITORING	RESULTS
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Quarter III (Oct 2021 to Dec 2021)											
S. No.	Parameter	West of Stack (Near Coal Handling Plant)	South East of Stack (Near CT 2)	North East of Stack (Near Reservior)	Sidni (Near Labour Colony)	Kawai Village	Mukhandpura	NAAQ Standard			
1	Particulate Matter, PM _{10,} µg/m ³	65.84	74.84	67.58	57.24	63.64	72.04	100			
2	Particulate Matter, PM _{2.5,} µg/m ³	28.33	33	30.33	22.76	26.16	29.39	60			
3	Nitrogen Dioxide (NO ₂), µg/m³	16.5	15.6	14.8	15.9	15.1	15.4	80			
4	Sulphur Dioxide (SO ₂), µg/m ³	13.1	13.4	12.9	11.6	12.0	11.4	80			
5	Carbon Monoxide, µg/m³	320	320	320	230	210	230	4000			
6	Ammonia, µg/m³	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	400			
7	Ozone, µg/m³	28.6	30.5	26.5	21.8	23.2	23.5	100			
8	Lead, µg/m³	0.16	0.12	0.15	0.11	0.08	0.07	1.0			
9	Arsenic, ng/m ³	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	6.0			
10	Nickel, ng/m ³	6.3	7.9	4.5	6.1	5.5	4.5	20			
11	Benzene, µg/m³	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	5.0			
12	Benzo-alfa-pyrene, ng/m³	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	1.0			
13	Mercury (Hg), ng/m³	BDL(<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	-			

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Quarter IV (Jan 2022 to Mar 2022)											
S. No.	Parameter	West of Stack (Near Coal Handling Plant)	South East of Stack (Near CT 2)	North East of Stack (Near Reservior)	Sidni (Near Labour Colony)	Kawai Village	Mukundpura	NAAQ Standard			
1	Particulate Matter, PM _{10,} µg/m³	80.58	78.45	76.01	68.81	64.58	60.75	100			
2	Particulate Matter, PM _{2.5,} µg/m³	43.63	37.59	36.62	28.04	26.46	27.15	60			
3	Nitrogen Dioxide (NO2), µg/m³	16.62	16.54	15.98	11.89	12.85	11.63	80			
4	Sulphur Dioxide (SO ₂), µg/m ³	12.84	11.86	10.25	8.08	7.22	8.09	80			
5	Carbon Monoxide, µg/m³	470	430	390	250	230	210	4000			
6	Ammonia, µg/m³	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	BDL (<10.0)	400			
7	Ozone, µg/m³	28.6	31.2	30.5	23.6	23.6	21.5	100			
8	Lead, µg/m³	0.15	0.17	0.13	0.10	0.09	0.14	1.0			
9	Arsenic, ng/m ³	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	BDL (<2.0)	6.0			
10	Nickel, ng/m ³	4.4	6.9	7.5	4.3	7.8	7.9	20			
11	Benzene, µg/m³	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	BDL (<1.0)	5.0			
12	Benzo-alfa-pyrene, ng/m ³	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	BDL (<0.5)	1.0			
13	Mercury (Hg), ng/m ³	ND	ND	ND	ND	ND	ND	-			
5 AMBIENT NOISE LEVEL

The measurements are done using the sound level meter with data logger. The results of the same are provided as below. [Note: (i) The value is the Leq of ten readings taken in Day time and Night time.]

- 1. Day time shall mean from 6:00 am to 10:00 pm
- 2. Night time shall mean from 10:00 pm to 6:00 am.

Quarter III (Oct 2021 to Dec 2021)						
Location	Day Time Leq in dB(A)	Night Time Leq in dB(A)				
West of Stack (Near Coal Handling Plant)	65.5	58.7				
South East of Stack (Near CT 2)	64.8	57.2				
North East of Stack (Near Reservior)	66.9	58.3				

TABLE 5.1: NOISE MONITORING RESULTS [INDUSTRIAL AREA]

Quarter IV (Jan 2022 to Mar 2022)							
Location	Day Time Leq in dB(A)	Night Time Leq in dB(A)					
West of Stack (Near Coal Handling Plant)	63.0	54.5					
South East of Stack (Near CT 2)	64.1	55.7					
North East of Stack (Near Reservior)	62.3	54.4					

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Quarter III (Oct 2021 to Dec 2021)						
Location	Day Time Leq in dB(A)	Night Time Leq in dB(A)				
Sidni (Near Labour Colony)	51.3	41.5				
Kawai Village	53.2	42.0				
Mukhandpura	52.3	41.8				

TABLE 5.2: NOISE MONITORING RESULTS [RESIDENTIAL AREA]

Quarter IV (Jan 2022 to Mar 2022)							
Location Day Time Leq in dB(A) Night Time Leq in dB							
Sidni (Near Labour Colony)	51.9	42.4					
Kawai Village	53.6	42.5					
Mukhandpura	53.5	41.7					

TABLE 5.3: NOISE MONITORING RESULTS [DG Set]

Quarter IV (Jan 2022 to Mar 2022)							
		DG Set-					
Parameter	DG Set-I	П	DG Set-III				
Noise level (dB(A) (inside the acoustic enclosure Room)	103.6	104.2	103.8				
Noise level 0.5m away from outside the engine room, (db) (Outside the acoustic enclosure)	73.5	72.8	73.9				
Insertion Loss	30.1	31.4	29.9				

Emission measurements are required to identify and quantify a wide range of pollutants in Stack Emissions. The measurements were conducted during the period of October 2021 to March 2022.

The parameters covered in the monitoring are depict below:

TABLE 6.1 TECHNICAL PROTOCOLS USED FOR STACK EMISSION MONITORING

S. No	Parameter	Units	Method of Test
1	Particulate Matter (PM)	mg/ Nm³	IS 11255 (P-1)
2	Sulphur dioxide (SO ₂)	mg/ Nm³	IS 11255 (P-2)
3	Oxide of nitrogen (NO _x),	mg/ Nm³	IS:11255 (P-7)
4	Carbon monoxide (CO)	%	IS:13270-1992
5	Mercury as particulate (Hgp)	µg/m³	USEPA-29

S. No	Parameter	Unit	Quarter III (Oct 2021 to Dec 2021)		
			Unit-I	Unit-II	
1	Exit Gas Velocity	m/sec	22.57	21.13	
2	Flow Rate	Nm³/hr	2869185.67	2707222.55	
3	Particulate Matter (PM)	mg/Nm³	35.19	38.7	
4	Sulphur dioxide (SO ₂)	mg/Nm³	1178	1170	
5	Oxide of nitrogen (as NO _x) at 15 % O ₂	mg/Nm³	313	298	
6	Mercury as particulate (Hgp)	µg/m3	0.007	0.005	

TABLE 6.2: STACK MONITORING RESULTS

S. No	Parameter	Unit	Quarter IV (Jan 2022 to Mar 2022)			
			Unit-I	Unit-II		
1	Exit Gas Velocity	m/sec	22.98	23.22		
2	Flow Rate	Nm³/hr	2906209.27	2911780.22		
3	Particulate Matter (PM)	mg/Nm³	32.97	36.06		
4	Sulphur dioxide (SO ₂)	mg/Nm³	1052	1088		
5	Oxide of nitrogen (as NO _x) at 15 % O ₂	mg/Nm³	356	352		
6	Mercury as particulate (Hgp)	µg/m3	0.01	0.008		

TABLE 6.3: DG STACK MONITORING RESULTS

Parameter	Unit	Quarter IV (Jan 2022 to Mar 2022)			
		DG Set-I	DG Set-II	DG Set-III	
Particulate Matter (PM)	mg/Nm³	47.76	47.75	4959	
Oxide of Nitrogen (NOx) at15% O ₂	ppmv	343	297	316	
Carbon monoxide (CO)	mg/Nm³	116	120	97	
NMHC as C at 15% O_2	mg/Nm³	38	41	35	

7 WATER QUALITY RESUTS [GROUND/ SURFACE]

A number of parameters have been monitored in ground water and surface water at nearby villages of plant site. The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 7.1.1: RESULTS OF GROUND WATER MONITORING

	Quarter III (Oct 2021 to Dec 2021)								
S. No.	Parameter	Near Labour Colony SE (Piezometer)	Salpura Village	Kawai Village	Phoolbaroda Village	Nimoda Village	Sidni Village	Baldevpura Village	NW of Ash Dyke near Nimoda Railway station (Piezometer)
1	рН (at 25 °C)	8.20	6.76	7.29	7.46	6.64	7.00	6.97	6.60
2	Colour, Hazen	<5	<5	<5	<5	<5	<5	<5	<5
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
4	Turbidity, NTU	6.2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	6.8
5	Total Dissolved Solids, mg/l	645	747	1100	562	910	668	158	518
6	Electrical Conductivity, µS/cm	860	1115	1701	923	1152	1108	239	701
7	Total Hardness (as CaCO₃), mg/l	337.25	392.16	568.63	294.12	470.59	313.73	147.06	274.51
8	Calcium (as Ca), mg/l	92.55	101.96	113.73	78.43	113.73	70.59	31.37	81.57
9	Magnesium (as Mg), mg/l	25.73	33.35	69.08	23.82	45.26	33.35	16.67	17.15

10	Chlorides (as Cl ⁻), mg/l	78.84	152.75	271.02	53.22	123.51	157.68	21.68	51.25
11	Sulphate (as SO ₄), mg/l	192.22	76.11	65.55	42.52	227.77	72.22	12.22	98.88
12	lron (as Fe), mg/l	BDL (< 0.01)	BDL (<0.01)	BDL (< 0.01)					
13	Total Chromium (as Cr), mg/l	BDL(<0.01)							
14	Arsenic (as As), mg/l	BDL(<0.001)							
15	Lead (as Pb), mg/l	BDL(<0.01)							
16	Silica (as SiO2) mg/l	7.77	12.22	26.66	27.22	8.88	13.88	13.88	9.44
17	Mercury ,mg/l	BDL (< 0.001)							
18	Appearance	Turbid	Clear	Clear	Clear	Clear	Clear	Clear	Turbid
19	Appearance after Filtration	Clear							
20	Methyl orange Alkalinity as CaCO3 mg/l	54.32	221.16	360.84	287.12	108.64	217.28	58.2	124.16
21	P- Alkalinity mg/l	ND							
22	Non Carbonate Hardness (as CaCO3 mg/l	282.93	171	207.79	7	361.95	96.45	88.86	150.35
23	E coli MPN/100ml	ND							
24	Total coliform, MPN/100ml	ND							

		Quarter IV (Jan 2022 to Mar 2022)								
S. No.	Parameter	Near Labour Colony SE (Piezometer)	Salpura Village	Kawai Village	Phoolbaroda Village	Nimoda Village	Sidni Village	Baldevpura Village	NW of Ash Dyke near Nimoda Railway station (Piezometer)	
1	рН (at 25 °C)	6.89	7.56	7.39	7.66	6.85	7.53	7.33	6.56	
2	Colour, Hazen	<5	<5	<5	<5	<5	<5	<5	<5	
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	
4	Turbidity, NTU	BDL(<0.1)	BDL(<0.1)	< 0.1	< 0.1	<0.1	< 0.1	< 0.1	6.8	
5	Total Dissolved Solids, mg/l	649	832	556	582	918	717	127	653	
6	Electrical Conductivity, µS/cm	1025	1311	881	914	1311	1118	204	1004	
7	Total Hardness (as CaCO₃), mg/l	388.35	388.35	201.94	322.33	475.73	271.84	81.55	388.35	
8	Calcium (as Ca), mg/l	116.5	116.5	48.16	62.14	128.16	73.79	24.85	112.62	
9	Magnesium (as Mg), mg/l	23.59	23.59	19.82	40.58	37.74	21.23	4.72	25.95	
10	Chlorides (as Cl ⁻), mg/l	91.6	178.38	109.92	53.03	120.53	139.81	13.5	91.6	
11	Sulphate (as SO4), mg/l	261.66	60.00	26.66	36.66	295.83	108.33	10.66	263.33	
12	Iron (as Fe), mg/I	BDL (< 0.01)	BDL (<0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	BDL (< 0.01)	
13	Total Chromium (as Cr), mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	
14	Arsenic (as As), mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)	
15	Lead (as Pb), mg/l	BDL(<0.01)	BDL(< 0.1)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)	
16	Silica (as SiO2) mg/l	10.68	12.5	11.14	24.55	8.36	16.36	10.18	12.27	

17	Mercury ,mg/l	BDL (< 0.001)							
18	Appearance	Turbid	Clear	Clear	Clear	Clear	Clear	Clear	Turbid
19	Appearance after Filtration	Clear							
20	Methyl orange Alkalinity as CaCO3 mg/l	74.48	382.20	243.04	352.8	127.4	264.6	78.4	74.48
21	P- Alkalinity mg/l	ND							
22	Non Carbonate Hardness (as CaCO3 mg/l	313.87	6.15	ND	ND	348.33	7.24	3.15	313.87
23	E coli MPN/100mI	ND							
24	Total coliform, MPN/100ml	ND							

7.2 SURFACE WATER:

TABLE 7.2.1: RESULTS OF SURFACE WATER MONITORING

			Quarter III (Oct 2021 to	Dec 2021)	
S. No.		Parameter	Barlan Pond	Kawai Pond	Parvan River
1	рН (at 25 °C)		7.56	7.83	8.14
2	Colour, Hazen		<5	<5	<5
3	Odour		Agreeable	Agreeable	Agreeable
4	Turbidity, NT	U	<0.1	<0.1	<0.1
5	Total Dissolv	ed Solids, mg/l	112	438	259
6	Electrical Co	nductivity, µS/cm	169	667	396
7	Total Hardne	ss (as CaCO₃), mg/l	54.9	211.76	184.31
8	Calcium (as 0	ca), mg/l	10.98	42.35	40.78
9	Magnesium (as Mg), mg/l	6.67	25.73	20.01
10	Chlorides (as	Cl ⁻), mg/l	11.33	73.91	43.36
11	Sulphate (as	SO₄), mg/l	11.66	26.55	11.77
12	Iron (as Fe), r	ng/l	BDL(<0.01)	BDL(<0.01)	BDL (< 0.01)
13	Total Chromi	um (as Cr), mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Arsenic (as A	As), mg/l	BDL(<0.001)	BDL(<0.001)	BDL(<0.001)

15	Lead (as Pb), mg/l	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
16	Silica (as SiO2) mg/l	3.27	8.88	20.55
17	Mercury ,mg/l	BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance	Clear	Turbid	Clear
19	Appearance after Filtration	Clear	Clear	Clear
20	Methyl orange Alkalinity as CaCO3 mg/l	69.84	232.8	162.96
21	P- Alkalinity mg/l	ND	ND	ND
22	Non Carbonate Hardness (as CaCO3 mg/l	ND	ND	21.35
23	E coli MPN/100ml	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND

			Quarter IV (Jan 2022 to	Mar 2022)	
S. No.	Paramet	er	Barlan Pond	Kawai Pond	Parvan River
1	рН (at 25 °C)		8.48	7.46	8.11
2	Colour, Hazen		<5	<5	<5
3	Odour		Agreeable	Agreeable	Agreeable
4	Turbidity, NTU		<0.1	<0.1	BDL(<0.1)
5	Total Dissolved Solids, mg/l		124	1075	282
6	Electrical Conductivity, µS/	cm	217	1617	435
7	Total Hardness (as CaCO ₃),	mg/l	44.66	466.02	170.87
8	Calcium (as Ca), mg/l		11.65	104.85	34.17
9	Magnesium (as Mg), mg/l		3.77	49.54	20.76
10	Chlorides (as Cl ⁻), mg/l		21.21	173.56	27
11	Sulphate (as SO ₄), mg/l		12.16	89.16	25.66
12	Iron (as Fe), mg/I		BDL(<0.01)	BDL(<0.01)	BDL (< 0.01)
13	Total Chromium (as Cr), mg	/I	BDL(<0.01)	BDL(<0.01)	BDL(<0.01)
14	Arsenic (as As), mg/l		BDL(<0.001)	BDL(<0.001)	BDL(<0.001)
15	Lead (as Pb), mg/l		BDL(<0.01)	BDL(< 0.01)	BDL(<0.01)
16	Silica (as SiO2) mg/l		0.59	25	21.36
17	Mercury ,mg/l		BDL (< 0.001)	BDL (< 0.001)	BDL (< 0.001)
18	Appearance		Clear	Clear	Clear

19	Appearance after Filtration	Clear	Clear	Clear
20	Methyl orange Alkalinity as CaCO3 mg/l	ND	421.4	172.48
21	P- Alkalinity mg/l	ND	ND	ND
22	Non Carbonate Hardness (as CaCO3 mg/l	44.66	44.62	ND
23	E coli MPN/100ml	ND	ND	ND
24	Total coliform, MPN/100ml	ND	ND	ND



The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 8.1: RESULTS OF STP WATER

	Quarter III (Oct 2021 to Dec 2021)										
S. No.	Parameter	45 KLD New	10 KLD STP Near Service Building)	10 KLD STP Plant Canteen	45 KLD STP near Adani Vidhayala (Old)	120 KLD STP in Plant Premises	60 KLD New	10KLD III Guest House	10KLD 3 BHK	60KLD STP in Township (Old)	10KLD Hospital
1	рН (at 25 [°] C)	7.59	7.12	7.17	7.24	7.12	7.52	7.10	7.27	7.56	7.07
2	Total Suspended Solid (TSS) mg/l	40	21	35	36	32	47	54	44	38	26
3	Nitrate Nitrogen mg/l	7.82	7.89	8.14	7.88	7.42	7.12	7.45	8.25	7.56	7.86
4	Ammonical Nitrogen (as NH₃-N) mg/I	10.64	2.72	8.23	5.32	2.24	9.52	11.12	13.72	7.24	9.86
5	Biochemical Oxygen Demand (BOD) mg/l	27.14	5.57	10.75	11.75	5.71	11.25	23	13.33	14.67	11.67
6	Chemical Oxygen Demand (COD) mg/l	167.04	66.82	129.92	155.9	74.24	107.65	152.19	111.36	96.51	107.65
7	Total Kjeldahl Nitrogen mg/l	25.2	11.96	15.96	15.12	5.32	23.41	24.16	28	17.90	23.84
8	Oil & Grease mg/l	4	4	3	5	3	4	5	4	4	5
9	Free Available Chlorine mg/l	BDL (<0.1)	0.1	BDL(<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (<0.1)
10	Bioassay Test	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent

	Quarter IV (Jan 2022 to Mar 2022)										
S. No.	Parameter	45 KLD New	10 KLD STP Near Service Building)	10 KLD STP Plant Canteen	45 KLD STP near Adani Vidhayala (Old)	120 KLD STP in Plant Premises	60 KLD New	10KLD III Guest House	10KLD 3 BHK	60KLD STP in Township (Old)	10KLD Hospital
1	рН (at 25 [°] C)	740	7.19	7.53	7.40	7.29	7.42	7.35	7.42	7.41	7.32
2	Total Suspended Solid (TSS) mg/l	53	24	23	37	25	60	56	23	24	28
3	Nitrate Nitrogen mg/l	8.89	7.42	7.76	8.69	8.49	8.05	8.16	8.71	7.82	8.26
4	Ammonical Nitrogen (as NH3-N) mg/l	12.43	3.09	7.79	6.81	3.18	11.49	12.57	11.89	5.89	11.27
5	Biochemical Oxygen Demand (BOD) mg/l	25.33	6.44	12.25	11.17	8.25	13.67	20.33	15.33	13.2	12.5
6	Chemical Oxygen Demand (COD) mg/l	176.26	81.6	137.09	133.82	84.86	127.3	172.99	120.77	101.18	130.56
7	Total Kjeldahl Nitrogen mg/l	28.71	13.75	14.26	18.45	7.12	25.29	28.76	30.42	15.42	25.89
8	Oil & Grease mg/l	6	3	4	4	4	4	5	5	4	4
9	Free Available Chlorine mg/l	BDL (<0.1)	BDL (<0.1)	BDL(<0.1)	BDL (<0.1)	BDL(<0.1)	BDL(<0.1)	BDL (<0.1)	BDL (<0.1)	BDL (< 0.1)	BDL (<0.1)
10	Bioassay Test	90% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent	90% Survival of Fish after 96 hours in 100% effluent	100% Survival of Fish after 96 hours in 100% effluent			

9 ETP WATER

The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 9.1: RESULTS OF ETP OUTLET

S. No.	Parameter	Unit	Quarter III (Oct 2021 to Dec 2021)
1	ρH	-	6.99
2	Total Suspended Solids (TSS)	mg/l	10
3	Outlet Temperature	٥C	18
4	Chemical Oxygen Demand (COD), mg/l	mg/l	29.7
5	Copper (as Cu), mg/l	mg/l	0.03
6	Iron (as Fe) mg/I	mg/l	0.05
7	Zinc (as Zn) mg/l	mg/l	0.18
8	Phosphate (as P), mg/I	mg/l	BDL(<0.1)
9	Oil & Grease, mg/l	mg/l	3
10	Sulphide	mg/l	BDL (<0.1)
11	Free Available Chlorine	mg/l	BDL (<0.1)

S. No.	Parameter	Unit	Quarter IV (Jan 2022 to Mar 2022)
1	рН	-	6.80
2	Total Suspended Solids (TSS)	mg/l	11
3	Outlet Temperature	٥C	22
4	Chemical Oxygen Demand (COD), mg/l	mg/l	35.9
5	Copper (as Cu), mg/l	mg/l	0.05
6	Iron (as Fe) mg/I	mg/l	0.04
7	Zinc (as Zn) mg/l	mg/l	0.27
8	Phosphate (as P), mg/I	mg/l	BDL(<0.1)
9	Oil & Grease, mg/l	mg/l	3
10	Sulphide	mg/l	BDL (<0.1)
11	Free Available Chlorine	mg/l	BDL (<0.1)

10 ASH RECOVERY WATER

The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 10.1: RESULTS OF ASH RECOVERY WATER Sample

			Quarter III (Oct 2021 to Dec 2021)			
S. No.	Parameter	Units	Ash Recovery Pump House 1	Ash Recovery Pump House 2		
1	Lead (as Pb)	mg/l	0.02	0.02		
2	Arsenic (as As)	mg/l	BDL(<0.001)	BDL(<0.001)		
3	Total Chromium (as Cr)	mg/l	BDL(<0.01)	BDL(<0.01)		
4	Cadmium (as Cd)	mg/l	BDL(<0.001)	0.002		
5	Mercury (as Hg)	mg/l	BDL(<0.001)	BDL (<0.001)		

			Quarter IV (Jan 2022 to Mar 2022)			
S. No.	Parameter	Units	Ash Recovery Pump House 1	Ash Recovery Pump House 2		
1	Lead (as Pb)	mg/l	0.03	0.02		
2	Arsenic (as As)	mg/l	BDL(<0.01)	BDL(<0.01)		
3	Total Chromium (as Cr)	mg/l	BDL(<0.01)	BDL(<0.01)		
4	Cadmium (as Cd)	mg/l	BDL(<0.001)	BDL (<0.001)		
5	Mercury (as Hg)	mg/l	BDL(0.001)	BDL (0.001)		

The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 11.1: RESULTS OF FLY ASH SAMPLE (Unit I)

S. No.	Parameter	Unit	Quarter III
1	Arsenic (As)	mg/kg	BDL(<0.001)
2	Mercury (Hg)	mg/kg	BDL(<0.001)
3	Lead as Pb	mg/kg	18.41
4	Total Chromium as Cr	mg/kg	BDL(<0.01)

S. No.	Parameter	Unit	Quarter IV
1	Arsenic (As)	mg/kg	BDL(<0.001)
2	Mercury (Hg)	mg/kg	BDL(<0.001)
3	Lead as Pb	mg/kg	257.47
4	Total Chromium as Cr	mg/kg	9.65

S. No.	Parameter	Unit	Quarter III
1	Arsenic (As)	mg/kg	BDL(<0.001)
2	Mercury (Hg)	mg/kg	BDL(<0.001)
3	Lead as Pb	mg/kg	20.08
4	Total Chromium as Cr	mg/kg	BDL(<0.01)

TABLE 11.2: RESULTS OF FLY ASH SAMPLE (Unit II)

S. No.	Parameter	Unit	Quarter IV
1	Arsenic (As)	mg/kg	BDL(<0.001)
2	Mercury (Hg)	mg/kg	BDL(<0.001)
3	Lead as Pb	mg/kg	98.63
4	Total Chromium as Cr	mg/kg	9.08

12 SOIL

The measurements were conducted during the period of October 2021 to March 2022. The parameters covered in the monitoring are depict below:

TABLE 12.1: RESULTS OF SOIL MONITORING

		Quarter III		
S. No.	Parameter	Nimoda Village	Kawai Village	Phulbaroda Village
1	Boron [mg/kg]	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
2	Calcium as CaO [%]	0.70	2.09	2.59
3	Magnesium as MgO [%]	0.35	0.86	0.81
4	Potassium as K2O [%]	0.15	0.27	0.24
5	Iron as Fe [%]	1.94	2.49	2.78
6	Manganese as Mn [mg/kg]	427.64	631.90	803.29
7	Phosphorus [%]	0.018	0.028	0.026

		Quarter IV		
S. No.	Parameter	Nimoda Village	Kawai Village	Phulbaroda Village
1	Boron [mg/kg]	BDL(<1.0)	BDL(<1.0)	BDL(<1.0)
2	Calcium as CaO [%]	1.90	1.76	1.71
3	Magnesium as MgO [%]	0.71	0.91	0.81
4	Potassium as K2O [%]	0.37	0.33	0.38
5	Iron as Fe [%]	2.06	2.24	2.11
6	Manganese as Mn [mg/kg]	246.26	266.46	251.31
7	Phosphorus [%]	0.0023	0.0059	0.0026



CONTINOUS EMISSION MONITORING RESULTS			
Station: Stack Attached to Boild	er 1 & 2		
Report type: Mean & Daily			
Time Base: 24 Hour			
Date (DD/MM/YY)	UNIT 1	Unit 2	
	PM (mg/Nm ³⁾		
2021-10-01 00:00:00	S/D	35.41	
2021-10-02 00:00:00	S/D	35.38	
2021-10-03 00:00:00	S/D	35.22	
2021-10-04 00:00:00	S/D	35.00	
2021-10-05 00:00:00	S/D	34.89	
2021-10-06 00:00:00	S/D	35.31	
2021-10-07 00:00:00	S/D	35.55	
2021-10-08 00:00:00	S/D	35.32	
2021-10-09 00:00:00	S/D	35.56	
2021-10-10 00:00:00	S/D	35.41	
2021-10-11 00:00:00	S/D	35.55	
2021-10-12 00:00:00	S/D	37.04	
2021-10-13 00:00:00	S/D	40.18	
2021-10-14 00:00:00	S/D	39.74	
2021-10-15 00:00:00	S/D	38.92	
2021-10-16 00:00:00	S/D	35.6	
2021-10-17 00:00:00	S/D	34.21	
2021-10-18 00:00:00	S/D	33.60	
2021-10-19 00:00:00	S/D	34.13	
2021-10-20 00:00:00	S/D	35.20	
2021-10-21 00:00:00	S/D	34.68	
2021-10-22 00:00:00	S/D	33.92	
2021-10-23 00:00:00	S/D	35.53	
2021-10-24 00:00:00	S/D	32.57	
2021-10-25 00:00:00	S/D	32.92	
2021-10-26 00:00:00	S/D	33.23	
2021-10-27 00:00:00	S/D	35.27	
2021-10-28 00:00:00	S/D	35.57	
2021-10-29 00:00:00	S/D	34.13	
2021-10-30 00:00:00	S/D	33.37	
2021-10-31 00:00:00	S/D	35.63	
Min	S/D	32.57	
Max	S/D	40.18	
AVG	S/D	35.29	

CON	CONTINOUS EMISSION MONITORING RESULTS				
Station: Stack Attached to B	Station: Stack Attached to Boiler 1 & 2				
Report type: Mean & Daily					
Time Base: 24 Hour	Time Base: 24 Hour				
Date (DD/MM/YY)	UNIT 1	Unit 2			
	PM (mg/Nm ³				
2021-10-01 00:00:00	SD	33.53			
2021-10-02 00:00:00	SD	35.34			
2021-10-03 00:00:00	SD	34.24			
2021-10-04 00:00:00	SD	31.82			
2021-10-05 00:00:00	SD	31.64			
2021-10-06 00:00:00	SD	35.16			
2021-10-07 00:00:00	SD	33.85			
2021-10-08 00:00:00	SD	34.64			
2021-10-09 00:00:00	SD	35.51			
2021-10-10 00:00:00	SD	35.81			
2021-10-10 00:00:00	SD	36.33			
2021-10-12 00:00:00	SD	34.5			
2021-10-13 00:00:00	SD	36.36			
2021-10-14 00:00:00	35.1	36.88			
2021-10-15 00:00:00	29.85	33.98			
2021-10-16 00:00:00	29.78	35.26			
2021-10-17 00:00:00	27.94	33.24			
2021-10-18 00:00:00	27.27	34.41			
2021-10-19 00:00:00	29.91	33.41			
2021-10-20 00:00:00	33.82	34.74			
2021-10-21 00:00:00	30.6	36.25			
2021-10-22 00:00:00	28.48	37.54			
2021-10-23 00:00:00	31.98	34.00			
2021-10-24 00:00:00	34.96	34.03			
2021-10-25 00:00:00	34.4	34.18			
2021-10-26 00:00:00	31.44	36.18			
2021-10-27 00:00:00	36.02	36.24			
2021-10-28 00:00:00	33.09	35.51			
2021-10-29 00:00:00	28.36	34.97			
2021-10-30 00:00:00	35.54	36.10			
Min	27.27	31.64			
Max	36.02	37.54			
AVG	31.68	34.86			

CONTINOUS EMISSION MONITORING RESULTS			
Station: Stack Attached to Boiler 1 & 2			
Report type: Mean & Daily			
Time Base: 24 Hour			
Date (DD/MM/YY)	UNIT 1	Unit 2	
	PM (mg/Nm ³⁾		
2021-12-01 00:00:00	33.12	35.04	
2021-12-02 00:00:00	28.69	34.42	
2021-12-03 00:00:00	30.01	33.85	
2021-12-04 00:00:00	32.48	34.78	
2021-12-05 00:00:00	32.59	35.16	
2021-12-06 00:00:00	29.56	35.3	
2021-12-07 00:00:00	30.28	37.03	
2021-12-08 00:00:00	30.06	36.48	
2021-12-09 00:00:00	31.21	36.53	
2021-12-10 00:00:00	29.43	34.18	
2021-12-10 00:00:00	31.25	36.06	
2021-12-12 00:00:00	30.85	S/D	
2021-12-13 00:00:00	31.91	S/D	
2021-12-14 00:00:00	28.33	S/D	
2021-12-15 00:00:00	29.04	36.47	
2021-12-16 00:00:00	29.99	36.75	
2021-12-17 00:00:00	35.5	34.74	
2021-12-18 00:00:00	32.69	34.21	
2021-12-19 00:00:00	36.96	35.26	
2021-12-20 00:00:00	37.17	36.14	
2021-12-21 00:00:00	34.25	37.66	
2021-12-22 00:00:00	36.09	39.25	
2021-12-23 00:00:00	42.34	39.83	
2021-12-24 00:00:00	39.43	39.82	
2021-12-25 00:00:00	32.16	38.67	
2021-12-26 00:00:00	34.84	37.81	
2021-12-27 00:00:00	32.39	37.19	
2021-12-28 00:00:00	33.46	34.1	
2021-12-29 00:00:00	32.59	32.37	
2021-12-30 00:00:00	28.81	33.56	
2021-12-31 00:00:00	28.80	32.74	
Min	28.33	32.37	
Max	42.34	39.83	
Avg	32.46	35.91	

CONTINOUS EMISSION MONITORING RESULTS			
Station: Stack Attached to Boiler	182		
Report type: Mean & Daily			
Time Base: 24 Hour			
Date (DD/MM/YY)	UNIT 1	Unit 2	
	PM (mg/Nm ³⁾		
2022-01-01 00:00:00	29.76	33.24	
2022-01-02 00:00:00	30.01	32.64	
2022-01-03 00:00:00	35.69	35.01	
2022-01-04 00:00:00	31.64	36.3	
2022-01-05 00:00:00	35.61	37.71	
2022-01-06 00:00:00	33.68	36.37	
2022-01-07 00:00:00	31.11	36.12	
2022-01-08 00:00:00	34.62	33.45	
2022-01-09 00:00:00	29.2	34.58	
2022-01-10 00:00:00	28.89	35.7	
2022-01-11 00:00:00	33.96	35.97	
2022-01-12 00:00:00	41.29	37	
2022-01-13 00:00:00	28.73	33.22	
2022-01-14 00:00:00	31.86	33.4	
2022-01-15 00:00:00	35.2	33.26	
2022-01-16 00:00:00	31.69	32.74	
2022-01-17 00:00:00	29.9	34.29	
2022-01-18 00:00:00	33.21	34.55	
2022-01-19 00:00:00	36.26	38.16	
2022-01-20 00:00:00	37.4	37.18	
2022-01-21 00:00:00	37.37	39.68	
2022-01-22 00:00:00	29.3	37.24	
2022-01-23 00:00:00	30.23	38.26	
2022-01-24 00:00:00	30.15	35.9	
2022-01-25 00:00:00	33.19	37.56	
2022-01-26 00:00:00	35.28	36.99	
2022-01-27 00:00:00	31.41	37.19	
2022-01-28 00:00:00	31.11	37.79	
2022-01-29 00:00:00	33.9	38.16	
2022-01-30 00:00:00	34.31	38.65	
2022-01-31 00:00:00	36.75	39.57	
Min	28.73	32.64	
Max	41.29	39.68	
AVG	32.99	36.06	

CONTINOUS EMISSION MONITORING RESULTS				
Station: Stack Attached to Boiler 1 & 2				
Report type: Mean & Daily				
Time Base: 24 Hour				
Date (DD/MM/YY)	UNIT 1	Unit 2		
	PM (mg/Nm ³			
2022-02-01 00:00:00	33.11	39.55		
2022-02-02 00:00:00	35.87	37.07		
2022-02-03 00:00:00	29.27	40.39		
2022-02-04 00:00:00	26.44	40.35		
2022-02-05 00:00:00	31.74	35.91		
2022-02-06 00:00:00	28.58	36.94		
2022-02-07 00:00:00	31.46	38.37		
2022-02-08 00:00:00	34.75	39.57		
2022-02-09 00:00:00	30.68	39.34		
2022-02-10 00:00:00	SD	40.07		
2022-02-11 00:00:00	SD	39.54		
2022-02-12 00:00:00	SD	39.44		
2022-02-13 00:00:00	SD	39.72		
2022-02-14 00:00:00	SD	39.24		
2022-02-15 00:00:00	SD	40.66		
2022-02-16 00:00:00	SD	39.59		
2022-02-17 00:00:00	SD	40.47		
2022-02-18 00:00:00	SD	39.43		
2022-02-19 00:00:00	SD	40.35		
2022-02-20 00:00:00	SD	40.85		
2022-02-21 00:00:00	SD	40.24		
2022-02-22 00:00:00	29.58	38.35		
2022-02-23 00:00:00	38.94	38.31		
2022-02-24 00:00:00	39.41	40.22		
2022-02-25 00:00:00	40.12	40.74		
2022-02-26 00:00:00	41.54	40.88		
2022-02-27 00:00:00	41.43	41.27		
2022-02-28 00:00:00	40.63	41.11		
Min	26.44	35.91		
Max	41.54	41.27		
AVG	34.60	39.57		

ADANI POWER RAJASTHAN LIMITED

2X660 MW KAWAI THERMAL POWER STATIONS

CONTINOUS EMISSION MONITORING RESULTS				
Station: Stack Attached to Boil	Station: Stack Attached to Boiler 1 & 2			
Report type: Mean & Daily	Report type: Mean & Daily			
Time Base: 24 Hour				
Date (DD/MM/YY)	UNIT 1	Unit 2		
	PM (mg/Nm ³⁾			
2022-03-01 00:00:00	41.82	40.89		
2022-03-02 00:00:00	39.7	41.24		
2022-03-03 00:00:00	34.95	39.64		
2022-03-04 00:00:00	41.11	41.16		
2022-03-05 00:00:00	39.33	42.26		
2022-03-06 00:00:00	38.29	40.36		
2022-03-07 00:00:00	40.83	39.2		
2022-03-08 00:00:00	43.05	39.38		
2022-03-09 00:00:00	42.18	40.8		
2022-03-10 00:00:00	39.55	41.61		
2022-03-11 00:00:00	39.58	SD		
2022-03-12 00:00:00	40.24	SD		
2022-03-13 00:00:00	40.85	22.38		
2022-03-14 00:00:00	38.01	36.78		
2022-03-15 00:00:00	38.81	36.86		
2022-03-16 00:00:00	38.81	36.15		
2022-03-17 00:00:00	37.58	36.18		
2022-03-18 00:00:00	38.66	37.07		
2022-03-19 00:00:00	37.77	36.43		
2022-03-20 00:00:00	37.77	35.42		
2022-03-21 00:00:00	37.2	36.32		
2022-03-22 00:00:00	40.23	37.85		
2022-03-23 00:00:00	41.91	39.82		
2022-03-24 00:00:00	42.9	39.29		
2022-03-25 00:00:00	42.57	38.97		
2022-03-26 00:00:00	41.32	38.31		
2022-03-27 00:00:00	40.74	37.81		
2022-03-28 00:00:00	41.53	37.8		
2022-03-29 00:00:00	41.84	37.74		
2022-03-30 00:00:00	38.92	37.04		
2022-03-31 00:00:00	38.58	36.8		
Min	34.95	22.38		
Max	43.05	42.26		
Avg	39.89	37.98		

ADANI POWER RAJASTHAN LIMITED

GROUND WATER LEVEL MONITORING RESULTS

LOCATION: Piezometric Wells Along With Ash Pond

S. No.	Month & Year	Ground Water Table (BGL)			
		Location : 1	Location : 2	Location : 3	
1.	Oct-2021	6.5 Meter	13.0 Meter	14.0 Meter	
2.	Nov-2021	9.8 Meter	16.0 Meter	19.0 Meter	
3.	Dec-2021	11.5 Meter	19.5 Meter	21.0 Meter	
4.	Jan-2022	13.0 Meter	23.5 Meter	22.5 Meter	
5.	Feb-2022	16.0 Meter	26.5 Meter	25.0 Meter	
6.	Mar-2022	19.5 Meter	29.0 Meter	28.0 Meter	

Location 1: South of Ash Pond (Nr. Labor Colony)

Location 2: East of Ash Pond (Nr. Ash Recovery Pump House)

Location 3: West of Ash Pond (Nr. Nimoda Railway Crossing)

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Power Ref. No.: APRL/ENV/MOEF&CC/CAC/Q3/22 Date: 15.01.2022

To Additional Principal Chief Conservator of Forest (APCCF) Regional Office (Central Region) Ministry of Environment, Forest & Climate Change (MoEFCC) Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj, Lucknow – 226 024, Uttar Pradesh

Sub: Advisory regarding implementation of Notification No. G.S.R. 02 (E) dated 2nd January 2014 for supply and use of coal with ash content for Kawai Thermal Powerplant-regarding.

Ref: File No. L-11011/21/2014-IA, I (T), dated: 13.04.2015.

Dear Sir,

With reference to above subject matter, we are submitting herewith compliance of said notification.

The half – yearly compliance reports of fly ash management for environmental safeguards stipulated in the EC and Consent are being regularly submitted to both the Regional Offices of MoEF&CC, Lucknow as well as Rajasthan State Pollution Control Board (RSPCB). We are also submitting the half-yearly and annual reports of fly ash to Central Electricity Authority (CEA) since plant operation.

We are enclosing herewith the monthly as well as quarterly **Average ash content** in the coal used by our power plant during the period of **October 2021 to December 2021** as **Annexure - I**.

Total Capacity of TPP: 2x660 (1320) MW

This is for your kind information and record please.

Thanking You, Yours faithfully, for **Adani Power Rajasthan Limited**

(R N[`]Shukla) Encl.: As above

Adani Power Rajasthan Ltd Adani Corporate House Shantigram, S G Highway Ahmedabad 382 421 Gujarat, India CIN: U40104GJ2008PLC052743 Tel +91 79 2555 4444 Fax +91 79 2555 7177 info@adani.com www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Nr Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

Annexure – I

ADANI POWER RAJASTHAN LIMITED

ASH PERCENTAGE IN COAL

(From October 2021 to December 2021)

SI. No.	Month	Coal Consumption (MT)	Ash % in Coal	
1.	October 2021	279,961	33.99	
2.	November 2021	391,378	32.70	
3.	December 2021	465,808	29.17	
Quarterly Average (%)			31.58 %	

MT: Metric Tonne

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Power Ref No.: APRL/ENV/MoEF/268/04/22 Date: 18/04/2022

To, Additional Principal Chief Conservator of Forest Regional Office (Central Region) Ministry of Environment, Forest & Climate Change Kendriya Bhawan, 5th Floor, Sector 'H' Aliganj, Lucknow – 226 024

Kind Attn.: Dr. A K Gupta, Joint Director

Sub: Advisory regarding implementation of Notification No. G.S.R. O2 (E) dated 2nd January 2014 for supply and use of Coal with Ash content – regarding

Ref: File No. L-11011/21/2014-IA.I (T), dated: 13.04.2015.

Dear Sir,

With above subject matter, we are submitting herewith the compliance of said notification.

Ash content data regarding supply and use of coal with ash content not exceeding 34% in the Coal based Thermal Power Plant as per Notification No. G.S.R. 02 (E) dated 2nd January 2014.

We are enclosing herewith the monthly as well as quarterly **Average Ash Content** in the Coal used by our power plant during the period of **January'2022 to March'2022** as Annexure -I.

Total Capacity of TPP: 1320 MW

This is for your kind information & record please.

Thanking You, Yours faithfully, for **Adani Power Rajasthan Limited**

(**R N Shukla**) Encl.: As above

Adani Power Rajasthan Ltd Adani Corporate House Shantigram, S G Highway Ahmedabad 382 421 Gujarat, India CIN: U40104GJ2008PLC052743 Tel +91 79 2555 4444 Fax +91 79 2555 7177 info@adani.com www.adanipower.com

Registered Office: Adani Corporate House, Shantigram, Nr Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad 382 421, Gujarat, India

ADANI POWER RAJASTHAN LIMITED

Annexure – 1

ASH PERCENT IN COAL

(From January'2022 to March'2022)

Month	Coal Consumption (MT)	Ash % in Coal
January - 2022	492231	31.13
February - 2022	323092	31.52
March - 2022	498200	32.43
Quarter	y Average:	31.72



Power Ref.: APRL/ENV/MoEFCC/CPCB/FLYASH/294/22 Date: 29.04.2022

To, Additional Principal Chief Conservator of Forest (APCCF) Ministry of Environment, Forest & Climate Change Regional Office (Central Region) Kendriya Bhawan, 5th Floor,Sector 'H', Aliganj, Lucknow-226024 (UP)

Sub: Submission of Annual Fly Ash implementation report for the period of April'2021 to March'2022 for Adani Power Rajasthan Ltd, Village Kawai, District Baran, Rajasthan.

Dear Sir,

With reference to above subject, we are furnishing herewith Annual Fly Ash implementation report for the period of **April' 2021 to March' 2022**, in compliance of provision of 'Fly Ash Notification S.O.763 (E) Dated 14th September' 1999, amendment on 27th August 2003, 03rd November' 2009. The Fly Ash notification has been further amended in 2016 and 2021.

Power Plant Capacity: 1320 (2X660) MW.

This is for your kind information & record please.

Thanking You Yours faithfully, for Adani Power Rajasthan Limited

MU.

(R^N Shukla)

Encl: as above CC: Member Secretary Central Pollution control Board Parivesh Bhagwan, East Arjun Nagar New Delhi-110032.

> **The Regional Officer Rajasthan State Pollution Control Board** Room no, 345 to 347, Mini Secretariate, Jhalawar - (Rajasthan).

Adani Power Rajasthan Ltd Adani House Shantigram, S G Highway, Ahmedabad 382 421 Gujarat, India CIN: U40100GJ2008PLC052743 Tel +91 79 2555 7555 Fax +91 79 2555 7177 info@adani.com www.adani.com

Registered Office: Adani House, Shantigram, S G Highway, Ahmedabad 382 421, Gujarat, India

Member Secretary, Rajasthan State Pollution Control Board,

4, Institutional Area, Jhalana Doongri, Jaipur-302004.

<u>Fly Ash Notification S.O. 2804 (E), 3rd November, 2009 –</u> <u>Statutory Compliance Report for the period 01.04.2021 to 31.03.2022</u>

S. No.	ltem	Reply
1	Name of Thermal Power Station	Adani Power Rajasthan Limited
2	Full address including District & Pin code	NH-90, Atru Road, Kawai, Tehsil Atru, Dist. Baran (Rajasthan) - 325219
3	E-mail address	santosh.singh1@adani.com
4	Name of the Nodal Officer (not below the rank of DGM / Dy. CE / or equivalent) dealing with ash/environment management and designation	Santosh Kumar Singh Sr. Vice President – AESG
5	Contact No.	079-25557289
6	Email:	santosh.singh1@adani.com
7	Total capacity of the Thermal Power Station (MW) along with unit-wise capacity break-up	1320 (2x 660) MW.

A. Coal Consumption and Ash Generation in year 2021-2022 (in tonnes)

8	Coal /Lignite Consumption	48559550 MT
9	Average ash content in coal (annual)	32.18
10	Bottom Ash Generation	302156 MT
11	Fly Ash Generation	1260354 MT
12	Total Ash Generation (10 + 11)	1562510 MT

B. Ash utilization in year 2021-2022 (in tonnes)

S. No.	Purpose for which ash is utilized	From ESP Dry Ash (1)	From Pond Ash (2)	From Bottom Ash (3)	Total (1+2+3)
13	Cement industry	1022481	0	0	1022481
14	Bricks/blocks/tiles and other ash-based products	0	363740	0	363740
15	Road and flyover embankments	0	0	0	0
16	Reclamation of low-lying area	0	178600	0	178600
17	Back filling of mines	0	0	0	0
18	Concrete/ mortar/ plaster	0	0	0	0
19	Agriculture	0	0	0	0
20	Exports	0	0	0	0
21	Others (please specify all avenues)	0	0	0	0
	Total B (13 to 21)	1022481	542340	0	1564821

C. Unutilised ash of year 2021-22 and previous years

22	Unutilised ash of year 2021-22 (in tonnes)	0.0
		Total Ash utilization Percentage is 100.15% in FY-2021-22.
23	Unutilised ash pertaining to previous years i.e. up to 31.03.2021 (in Million tonnes)	0.152114 million tonnes up to 31.03.2021.
24	Total unutilised ash up to 31.03.2022 (in Million tonnes)	0.151248
	a. Quantity of Ash stored in Silos	0.003825
	b. Quantity of Ash stored in Ash Ponds	0.147423
	c. Quantity of Ash stored in any other manner (please specify type of storage and dry/wet phase)	No other mode for the storage

D. Reasons for not achieving 100% ash utilisation-

- 1. Not applicable
- 2. Not applicable
- 3. Not applicable

Achieved 100%. Total Ash Utilization Percentage is 100.15% in FY 2021-22.

Signature of Authorized person, **for Adani Power Rajasthan Limited**

itw

Name: R^JN Shukla Designation: General Manager – Environment & Forest Date: 29.04.2022
Adani Power Rajasthan Limited, Kawai

<u>Annexure: IV</u>

Greenbelt Details:

114.0 1,13,526 1,75,000 PLANTED SPECIES IN AND AROUND PLANT PREMISES Sr. No. Scientific Name Common Name Tress Image: Colspan="2">Common Name 1. Azadirachta indica Neem 2. Bauhinia blakeana Kachnar 3. Callistemon viminalis Pink Bottle brush 4. Casuarina equisetifolia Saru/Casuarina 5. Delonix regia Gulmohar 6. Phoenix dactylifera Date Palm 7. Punica granatum Pomegranate 8. Emblica officinalis Aamla 9. Eucalyptus hybrid Eucalyptus 10. Mangifera indica Aam/ Mango 11. Polyalthia longifolia Ashok/ False Ashok 12. Psidium guajava Guava 13. Syzygium cumini Jamun 14. Washingtonia filifera Washingtonia Palm 15. Wodyetia bifurcata Palm 16. Cassia seamia Cassia 17. Albizzia leebeck Siris 18. Pongamia pinnata Karanj 19. Cordia longifolia Lasoora 20. Aegle Marmelos Bel
PLANTED SPECIES IN AND AROUND PLANT PREMISESSr. No.Scientific NameCommon NameTressIAzadirachta indicaNeem2.Bauhinia blakeanaKachnar3.Callistemon viminalisPink Bottle brush4.Casuarina equisetifoliaSaru/Casuarina5.Delonix regiaGulmohar6.Phoenix dactyliferaDate Palm7.Punica granatumPomegranate8.Emblica officinalisAamla9.Eucalyptus hybridEucalyptus10.Mangifera indicaAam/ Mango11.Polyalthia longifoliaAshok/ False Ashok12.Psidium guajavaGuava13.Syzygium cuminiJamun14.Washingtonia filiferaPalm16.Cassia seamiaCassia17.Albizizia leebeckSiris18.Pongamia pinnataKaranj19.Cordia longifoliaLasoora20.Aegle MarmelosBel21.Dalbergia sissooShisham22.Ficus religiosaPeepal23.Cassia renigeraCassia24.Parkinsonia soParkinsonia
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Annexure - V

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Foundation

Corporate Social Responsibility

Six-month Report (October 2021- March 2022)

Adani Power Rajasthan Limited, Kawai

adani

Growth with Goodness

With Goodness

For a New Normal India

Growth

Overview of Kawai Site

At present we are working in 27 villages, 1 town, 13 Gram Panchayats, 1 Block of district Baran. 8,475 household, 42,834 population , 32 Schools, 45 Aanganwadi's, 1 District Hospital, 2 CHC, and 2 PHC.

Cluster details: All 28 village divided in to 4 clusters.

Cluster One	Cluster Two	Cluster Three	Cluster Four
(Core Zone)	(Pipe Line Zone)	(Anicut Area)	(Buffer Zone)
 Chatrapura Baldevpura Dhara Nimoda Khedligaddiyan Salpura Kawai Mukundpura 	 Sodalehri Kharkhada Ramlothan Dadwara Bamori Chothya Mytha Hatidilod Phoollbaroda Zarkhand 	 Atru Aton Baldevpura (anicut) Kunjer 	• Aamapura • Bamapura • Lolahedi • Sindhani • Haniheda • Barla • Khedli bansla

Education

Recognize to selected students of JNV Selection test 2020-21 by Station head at APRL.

- From 16th November onwards JNV coaching classes started at Atru and Kawai. And it will continue till selection test tentatively 30th April 2022.
 - 85 students from 24 schools taking benefits of coaching class and compete for JNVST.
 - Provide study kit contains- Bag, Guidebook, Registers, Compass box, Pens, Pencils, Eraser, Sharpener etc.
 - Regular classes and conduct weekly assessment for curriculum-based learning.
 - Digital classes and motivational classes conducted for coaching students.
 - Providing weekly nutritious refreshment for coaching students.
- > Support to sports tournaments as organized in vicinity: Total 96 teams and 1400 players participated.
 - 17 and 19 year Girls Kabbadi tournament organized by Girls school Atru.
 - 17 and 19 year Boys Kabbadi tournament organized by Sr. sec. school Kharkhada Ramlothan.
 - 14 year Boys Soft ball and Volleyball tournament organized by Govt. Upper primary school Khedli bansla.
 - Provide support to players for state level games, 21 player selected from 4 surrounding schools.
 - Provide support to village level open cricket tournament at Kawai; Total 18 teams participated.
- > As per the need Student Dual-desk and other material like- Rugs, Floormats, Fan, & White board distributed in 32 Govt. schools.
- > 100 Computer system distributed to 22 nearby Government schools.
- Participate as a guest in nearby Government schools for Annual day program. Schools recognize and honor to Adani foundation in public event for ongoing support.

Education



Sports tournament

Annual function @ school

Education (Success story: JNV selected students)

Shubham Mahawar residents of Kawai village and belongs to poor family. Shubham father Mr. Bhawani shankar Mahawar doing small business of stone supplier in Kawai. Shubham is intelligent and sharp mind in his class. 2 years back Mr. Bhawani shankar warried about education of his kid because he is not able to give him quality education due to low income and not enough knowledge about education system. All surrounding people suggest him to shift to Kota or Baran for better education. During our JNV coaching campaign / mobilization AF team meets with students of all schools. Shubham Mahawar share details with his father. His father willingly meets to us and understand all procedure and system of JAWAHAR NAVODAYA VIDYALAYA. He ready to take all formalities but thinking about the expenditure of coaching. Once we explain about our cost free JNV coaching classes. The all Mahawar family very glad and Shubham started our classes at Kawai center. Due to Covid19 scenario many time we provide e-content in mobile phone, they face difficulty but dedication and regular test give him confidence to perform better day by day.

And finally he performs well in JNV selection test and secure his position. Now worry and tension removed from Mr. Bhawani shankar mahawar life. And his son get quality education at their very near school called Jawahar Navoday Vidayalaya. Shubham is very excited and eagerly waiting for join his new school.

The all family very happy and shown gratitude towards Adani foundation and recognize the efforts of his coaching teacher and team of Kawai CSR.

Shailesh Meena residents of Mukundpura village and belongs to poor Schedule tribe family. Shailesh father Mr. Bhupendra meena is engage into agriculture related work. Shailesh is bright mind student but handicapped. Due to this physically handicapped his family stress and thinking how to they provide him better quality education. Due to this reason Shailesh family not ready to send him away from village for study purpose. And in rural area they not found the quality education as they expecting.

During our JNV coaching campaign / mobilization AF team meets with students of all schools. Shailesh meena showing interest and share details with his family. His father willingly meets to us and understand all procedure and system of JAWAHAR NAVODAYA VIDYALAYA.

Once they understand all things they ready to send his kid to coaching to Kawai center that is 6 KM away from village. The main hurdle is send his kid to coaching every day. But Shailesh conveyance to his father and join Kawai coaching center. Due to Covid19 scenario many time we provide e-content in mobile phone, they face difficulty but dedication and regular test give him confidence to perform better day by day.

And finally he performs well in JNV selection test and selected by Jawahar Navodaya Vidyalaya. Shailesh is very excited and impatiently waiting for join his new school.

The all family very happy and shown gratitude towards Adani foundation and recognize the efforts of his coaching teacher and team of Kawai CSR.





Adani Vidyalaya, Kawai

Academic activities:

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- The school has been reopened from 4th October, as per govt. guidelines. And taking all the precautionary measures every day like sanitizing, taking temperature, using mask and keeping social distancing.
- Periodic assessment and term examination conducted as per designed curriculum. Exams were conducted in offline mode.
- To inculcate the habit of reading and to improve the language skills, school took the initiative to provide children library books. Children have to write the summary of the book in a decorated notebook.
- · Remedial classes have been planned: Everyday, last one hour taken to make the base of students strong.
- Board registration of Class-5 been done of all students.
- Parents teachers meeting were conducted in regular interval and discuss about performance and suggestions.
- On Result day Chatterjee madam and Chakraborty madam visit to school and issue the report card to students.

Event celebration and extracurricular activities @ AVK:

- All National days, Occasion and Festivals celebrated @AVK like- Gandhi Jayanti, Vijayadashami, Diwali, Mathematics day, Christmas day, New year, Netaji Subhash Chandra Bose Week, Basant Panchami, National science day,
- School has organized Summer camp after the Term-2. It was opened for all the students. The attractions were- Zumba dance, Pot decoration, Fireless cooking, Calligraphy, Yoga, Rangoli, Games, Holi celebration, Drawing/Painting etc.
- Mini sports day was organized on the last day of the camp in which different sports took place.
- Station head sir and Chatterjee madam visited to school and visit the gallery as prepared during Summer camp.
- On various occasion Students made decorative articles, lanterns, diyas, bandanwar, greeting cards, Rangolis and many more from waste.
- AVK has taken initiative for teaching music & singing to short-listed students. Professional Online classical dance classes also arranged.
- English handwriting competition organized on 22nd January. Science Olympiad offline examination conducted @AVK.
- Trainings and Learning activities for teachers:
 - Macmillan Education took an online session for teachers to explain the NEP(new education policy), ELPS and LSWR approach.
 - Workshop was organized of the digital support from the Cambridge resources for teachers.
 - Online Cyber awareness session conducted for students, teachers and parents.
 - · AVK students participated in Drawing & Poster making activity for Safety day. And Winners were awarded.
 - Organized a field trip for AVK staff for team building and to create synergy for new session.

Adani Vidyalaya, Kawai



Basant Panchami celebration

Guest visit to Summer camp

Online Dance classes

Result declared and PTM

Community Health

Mobile health care unit:-

 \bigcirc MHCU covered 28 villages in a week and provide doorstep health facilities to community.

Month	Village OPD			Other services					
	Male	Female	Total	School & other camp	Blood sugar testing	Referred cases	Home visits	Awareness session	
October	1970	1701	3671	9	18	2	3	3	
November	1801	1818	3619	6	24	3	3	0	
December	2550	2056	4606	11	25	2	5	4	
January	2013	1818	3831	8	21	4	2	4	
February	1817	1736	3553	6	12	0	2	2	
March	1489	1292	2781	15	0	1	1	0	
Total	11640	10421	22061	55	100	12	16	13	

> Multi-speciality health camps:-

- In association with Health department Atru under Government scheme "MUKHYMANTRI NIROGI RAJASTHAN CHIRINJIVI SWASTHYA SHIVIR" organize health camps in all Atru block.
- We organized 7 Gram panchayat level multispecialty health Camp and 1 Block level Mega health camp.
- * Total 3534 people treated in medical camps of various dieses.
- The service provided in the camps were various disciplines like:- Gynaecology, Skin, Eye, Paediatrics, Dental, Orthopaedics, Psychologist, Ayurvedic, ENT & General health.
- We also provided 48 type testing facilities & awareness about running Government schemes.

Community Health



Medical consultation

Registration for camp

Testing facility in camp

Eye checkup in camp

Community Health (Case Study)

Case Study

- Mrs. Nathi Bai is 85-year-old and living in Hathidilod. She is suffering from hypertension and weakness. She lives alone as she lost her husband long time back and not having children.
- Nathi Bai is regular beneficiary of our MHCU from last four year she is suffering from Hypertension and Weakness. She used to walk with the support of stick and comes to our site regularly for the medicines but due to weakness she was not able to walk and was not coming to the site from past two weeks. Then the MHCU team decided to visit her home so that her wellbeing can be taken off.
- Then find that due to weakness she was not able to walk and her B.P was also on higher side as she was not taking her medicines regularly from past two weeks. After the examination, Doctor prescribed her the regular B.P medicines and health tonic along with the iron tablets so that weakness can be recovered, and she can improve again.
- She informed that four years back she came to knew about our MHCU free of cost treatment and she come to MHCU site and detailed her health issues to the Doctor and the team briefed her about the services rendered by Mobile Healthcare Unit. The cordial attitude shown by the staff, she felt comfortable and shared her all the problems to the staff and treated by the Medical Consultant with suitable treatment compliance including free medicines, counselling, and regular health check-up. After availing regular treatment, she felt improvement and got relief in her health condition. Also, she was able to save the money which she use to spent on her treatment from the Private clinic.
- She is very happy and satisfied with our services.

Testimonial

I am very happy that the Adani Foundation gives me the services at my home and think for me.

I am very thankful to Adani Foundation for provide free treatment and medicines are very helpful to people like me.



Mrs. Nathi Bai

Community Health (Case Study)

Case Study

- **Mr. Jamna Lal Ji yogi** is 74 years old. He is from Kachra Village but now he lives In Old age Home, Atru. he has a Son and a daughter. His son is a farmer and daughter got Married. There is no any one to take care of him in his family so that he stay in old age and His family are stay in Kachra village.
- Mr. yogi is fully depended on our MHCU services for primary treatment. he full fill his basic needs from Old age Pension scheme.
- He is suffering from Hypertension and Diabetes disease from last 4 years. Four year back his treatment going on from Government hospital, Atru but he did not take it regularly because he did not walk. He was feeling alone but a day he saw Our MHCU vehicle outside of Old age home and he knew about our free of cost treatment and services.
- He come to MHCU site and share all problems. Medical consultant investigate his report and prescribed medicine Amlodipine 5 mg, Glimepiride 1 mg and Metformin 500 mg.
- After taking regular treatment, his health has considerable improvement. He is very happy and satisfied with MHCU treatment.
- Now Mr. Jamna lal is very happy and thankful to Adani Foundation to give a chance to live a better life.

Testimonial

I am very happy to get a treatment at old age home. MHCU team take care of me like My Family.

I am very thankful to Adani Foundation for provide batter and doorstep treatment.



Mrs. Jamna Lal yogi

PASHUDHAN: -

We are implementing cattle breed improvement programme since 2017 in 27 villages.

- ✤ 707 Cattle covered thru Artificial insemination in 2nd Half of 2021-22.
 - ✤ 194 new calf born in 2nd Half of 2021-22.
 - Calf rally at Nimoda village: COO Adani foundation and local Sarpanch were Chief guest and motivates to farmers.
 - Fodder seeds distribution to 279 farmers.
 - Feed supplementary 215 Farmers benefited and Rs. 30840/- Community contribution received.
 - Conduct 2-day training for ILD center incharge to do effective AI and reporting in software.
 - BNH-10 fodder grass propagated in field for 10 selected farmer.

Biogas ready for installation for 5 progressive farmers.

Sr. No.	Particular	Achievement till March 2022
1	Artificial Insemination	3489
2	Pregnant	1777
3	Calves	1123
4	Vaccination	7008



Cattle Feed Supplementary

Fodder Seeds Distribution

Training of ILD center incharge

Biogas for farmer

9

KRISHI KOUSHAL: -

- > Orchard development 3200 fruit plant distributed to 60 farmers.
- > Farmers training conducted total 153 farmer participated.
- > Vegetable seed distribution 20 farmers
- > Beneficiary Sign board installation to 15 farm as well-developed Orchard.
- > Mustard crop growing well and 20% yield increased; As we distributed the improved variety seed to 141 farmers.
- > 15 Water tank constructed for nearby farmers towards proper irrigation of fruit plants and agriculture

Institution Building: -

- > Monthly meeting conducted at 12 villages for awareness on livestock management and agriculture practice.
- > Total 72 monthly meetings conducted, and more than 1400 women participated.
- > Training conducted for village facilitator to formation of Farmers producer organization and diary development.
- > Expert from BAIF guided to women regarding FPO and solve other livelihood related query.
- I exposure visit conducted at Maitri Mahila Mandal Dooni, Tonk for FPO members to gather knowledge for diary development and FPO function.



Monthly meeting @Dhara

Training conducted for VF

Exposure visit

Exposure visit @ Dooni tonk

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Sustainable Livelihood (Case Study)

Case Study

Mr. Giriraj suman living at Kawai village in Baran district. He has having one cow and one buffalo for domestic milk consumptions. He said that agriculture & animal husbandry is major income source of his family. In this area all animals having non-describe breed which is giving around 04–05-liter milk daily. Mr. Giriraj is told that due to lack of awareness cattle rearers are not adopting Artificial Insemination service. He purchased one buffalo for meet out the milk requirement of his family.

He purchased a Murrah breed buffalo and buffalo given 07-to-08-liter milk daily but slowly- slowly production reduced, and buffalo not come on heat after one and half year.

One day dated 7.11.2020 employees from Adani foundation meet to him for family baseline survey. He shared the problem of his buffalo that the buffalo is not comes on heat from last one and half year and finally he decided to sell of buffalo on Rs. 10,000 to 15,000.

Team Adani foundation visited to his house on next day with Cattle Inseminator and diagnosis the problems of buffalo and provided mineral mixture and calcium. Next O3 days regular visited and regular follow up.

After 11 days of first visit date 18.11.2020 team AF received a call from Mr. Giriraj, He said that his buffalo is coming on heat. Our ILD center incharge visited to his home and inseminated to his buffalo. After 03 month, we visited to Mr. Giriraj home for pregnancy diagnosis of his buffalo, and we found pregnant. ILD incharge suggested to him for given the mineral mixture and proper feed supplementary. On dated 29.09.2021 Mr. Giriraj and his family is very happy to see that a healthy female calf born at his house. Within one hour he called to team Adani foundation and giving thanks for save his buffalo and support to family as financial because now his buffalo is an asset for his family and market rate is more than 50,000.

Now he aware to neighbors and villagers for take service from Adani foundation for rearing of cattle and appreciated to cattle breed improvement program.



Community Infrastructure Development

Safety park development-

Safety park development at Jawahar Navodaya Vidyalaya Atru. And it is open for all schools and institutes for learn safety culture.

Construction of Model Aanganwadi at Nimoda village-

There is no proper place for Aanganwadi center community facilitates with real requirement; More than 663 people will get benefit.

> Classroom construction at Govt. secondary school Haniheda-

We have taken this project for proper seating arrangement and promote quality education. More than 158 students will get benefit.

> Construction of Crematorium at Salpura-

- Due to unavailability of ccrematorium shed at Salpura people suffers a lot in tough time. With this project we support to community for funeral activity & support to their religious fillings. More than 770 people will get benefit.
- > Installation of 4 Borewell in nearby Villages- Salpura, Barla, Dhara village and Jawahar Navoday Vidyalaya Atru.
 - Borewell established in 4 location, and it will facilitate to more than 3072 people during summer session.

> Water Pond Deepening & Embankment -

- Under water conservation activity 5 villages- Baldevpura, Chhatrpura, Dhara, Nimoda, and Khedli gaddiyan will take benefit.
- Well develop natural place attract more people to visit and water table recharge of nearby villages.
- > Biodiversity park development work-
 - Supply and installation Solar power Fence Energizer machine set.
 - Supply and saplings of 1000 plants- (300 Anola variety, 300 Guava variety & 400 Karanj variety).
 Supply farmyard (vermicompost) manure, Fertilizer, Super-phosphate, Urea, and Dry chemical powder.
- **Construction of CC Road in 3 CSR working Villages-** Baldevpura, Aton and Mukandpura village.
 - This pathway facilitate to village community and improve village infrastructure; More than 2745 people will get benefit.
- SWAGAT KAKSH (Room) construction at Police station Salpura-
 - Room construction work completed and handover to Police station Kawai.

Community Infrastructure Development



SAKSHAM

5	Sr. No.	Courses	Training ongoing	Training completed	Revenue generate
	1	Self Employed Tailor	0	15	6000
	2	Beauty Therapist	16	33	39966
	3	Basic Functional English	0	2	1198
		Total	16	50	47,164

> Meeting and mobilization in nearby villages:

Trainings:

- * Mobilization activity ongoing in vicinity of Adani Power Plant and Baran city.
- * Meeting with female candidate for admission in SET and B&W course at Baran city.
- * SAKSHAM center established in Baran city and start Beauty therapist course.
- COO Adani foundation Mr. G. Chandra Shekhar Gowda visited to ASD center and interact with trainees, asked how they feel after skilled and guide for better employment/ self-employment.
- * Mobilization activity conducted during 8 medical camp in nearby villages.
- * ASDC trainee and trainer participate in International Women's day event as organized at JNV Atru.
- Create livelihood opportunity for ASDC trainees; At shopping complex of APRL successfully running a selling corner where our trainees sale self made and stitched product.
- * Our Beauty therapist trainee providing beauty services at Shopping complex APRL and getting livelihood.

SAKSHAM



Makeup demonstration activity

Beauty parlor services @ APRL

Mobilization @ Health camp

Visit of COO Adani foundation

SAKSHAM (Success Story)

Nirmala Sharma is 33-year-old lady. She is a married and resident of Baran belongs to a middle-class family.

Her husband has a small business and earns around 10 thousand per month. She wants to do something to support her husband, but she wasn't skilled in any field. During mobilization she heard about the Adani Skill Development Beauty Therapist course. After discussing with her husband, she got registered for a Beauty Therapist course. She was very attentive during the course. After completing the course, she started a small beauty parlor at her home after some time she started to earn some money. Her monthly income rising by providing beauty services at her home and by home visit. Today she earns 5000 rupees per month.

Nirmala giving credit to Adani Skill Development Center for showing the right path and guiding for respectable livelihood. She is most grateful for this life changing opportunity.





SAKSHAM (Success Story)

Rachana Sen is a 21-year-old girl living in Baran Rajasthan. She is the most passionate and taciturn girl in her batch. She always tries to help and support her family for better livelihood.

There are seven members in her family. But due to not having enough skill and not having the proper platform as she desire. This journey was complete when she heard about Adani Skill Development Centre and took admission in the Beauty Therapist course.

Today she is supplementing her family's income by offering beauty treatment from home. Her initiative and enterprise have helped her to gain the respect of her relatives and community members.

After completing the course, she started to provide beauty services at her home after some time she started earning some money. Her monthly income started rising by providing beauty services at her home and by home visit. Today she earns more than 3000 rupees per month. <u>Rachana shared the views and said</u>- Since I want to prove to my family that I can also contribute to family income. It was totally dedicated while learning this life skill. I am also fortunate to be part of the Adani skill development center that I can even achieve bigger things in life.



SaHAJ

- "SaHAJ" Sanitation and Health awareness joint-venture.
- > Organized 41 small group meetings at village level for aware about menstrual hygiene and benefit of use sanitary pads.
- > Total 2163 packet sale in last six month and spread awareness in villages.
- > Organized one day training program on menstrual hygiene for our SaHAJ group women.
- Mrs. Pavitra Nagar (Senior Trainer, ICDS Baran): provide training and elaborate- What is menstruation, How to promote menstrual hygiene, Why use of sanitary napkins is necessary, What are the disadvantages of not using sanitary napkins, How to dispose of sanitary napkins, and How to communicate with the target group etc.
- > COO Adani foundation Mr. G. Chandra Shekhar Gowda interact with SaHAJ volunteers & beneficiary and motivate them for better work.
- In SAHAJ project 5 ladies involve into manufacturing and packaging and 25 village facilitator working for awareness, marketing and selling of Sanitary pad.

SaHAJ



Village level meeting

Village level meeting

Sanitary pad doorstep delivery

Sanitary pad doorstep delivery

Visit for Monitoring and Review of CSR

- COO-Adani Foundation Sh. G. Chandra Shekhar Gowda Sir visited to Kawai on 12th & 13th October 2021 for review and monitoring of CSR programs.
- > In 2 day visit, COO sir interact to 12 different CSR programs/ Beneficiary and 2 meetings:-
 - Attended the Calf rally and interact with different stakeholders at Nimoda village.
 - Attended Farmers meeting and motivate them for step-up with business plan.
 - Meeting with farmer success story Mr. Raghuveer at Dadwara village.
 - Visit to Model Aanganwadi and interact with community at Kharkhada Ramlothan.
 - Visit to Aamapura and Bamori village- Interact with orchard development success story Sajna bai and Deshraj.
 - Interaction with MHCU team and take feedback from community.
 - Visit to Kunjer grazing land and interact with community.
 - Visit to district hospital Baran and meeting with CMHO.
 - Attended a program at ASDC center- view exhibition, communicate with ASDC and SaHAJ beneficiary and motivate them for better work.
 - Meeting with Plant head for better planning and interaction with CSR team for better execution of programs.

Visit for Monitoring and Review of CSR



Visit to district hospital

Meeting at ASDC & SaHAJ center

Tree plantation at Kunjer

Group photo at SAKSHAM centre

Social Impact and Evaluation study

- Conduct a study for Evaluation of Impact and Sustainability of CSR Activities of Kawai.
 Audit team visited to various sites and cover all the programs and surrounding which is requird for study.
- > Audit team interacted with many beneficiaries of all the programs of CSR and meeting with CSR team to collect necessary information.



International women's day celebration

- > International women's day event organized on 10th March at JNV Atru with all vertical women beneficiary of CSR.
- > More than 300 women participated from all running CSR programs in vicinity villages.
- > In this program we invite successful entrepreneur women "Meera Devi" from *Maitree mahila mandal Dooni, Tonk* for inspire and motivates to women stakeholders of our various CSR programs.
- > Also invite to all success women of various filed like- CEO Zilla parishad, Officers of Saras diary, Teachers, Trainer etc. for share experience and motivates to village women.
- For the program Deputy director- Agriculture, Head O& M- Adani power, Officers of Saras diary, Principal of JNV were present as guest.
- > Organize various games and recognize to winners. And provide cloth bag to all participants.



Award and Accolades

> National CSR Award:-

- Kunjer Biodiversity park recognize as Best environmental sustainability award by World CSR day and World sustainability.
- In organization category Adani power Rajasthan Itd. Recognized as Best environmental sustainability award.
- Mr. Dilip Acharya (Head HR- APRL) and Mr. Gopal Singh Deora (CSR Head) were attend the award ceremony and taken award at Bangalore.

> BHAMASHA AWARD: - (Education)

- 12 nearby Govt. schools recognize our support and invite us as chief guest and handover "BHAMASHA AWARD" in Annual day program in presence of Education department officials, local leaders, and villagers.
- BHAMASHA AWARD is prestigious award under category of Education. It is announced by Education department Rajasthan government.

> Appreciation from Health department: -

- Block CMHO recognized our efforts for provide support to organized 8 Mega medical camp under MUKHYMANTRI NIROGI RAJASTHAN CHIRANJEEVI YOJNA.
- Organized an event at CHC Kawai and Block CMHO handover appreciation certificate to Head CSR Adani foundation for ongoing support for betterment of health of surrounding people.

Award and Accolades

National Award for Excellence in CSR 2021 Best Environment Sustainability Award for Biodiversity Park, Kawai, Rajasthan			
Best environmental sustainability award	Head HR & Head CSR attend the event @Bangalore	Bhamashah award @Kawai school	Bhamashah award @Aton school
<image/>		सार मुख्य विकित्सा अधिकारी किंद्र स्वांग अदर खांग सिम्मान-पत्र बिविवा Foundation, Kawai अपने विकिन्म एवं स्वास्थ्य दिमाग द्वारा सम्मान-पत्र से अलंकृत किया जाता है, अत्या हे के जाम मदिष्य में जनहित के काई में अपना दोमवान करते रहेगे। अत्या होने काम मदिष्य में जनहित के काई में अपना दोमवान करते रहेगे।	<complex-block></complex-block>
Bhamashah award @Girls school Atru	Recognized by Block CMHO @CHC Kawai	Appreciation certificate for contribution in Health sector	BHAMASHAH Award from

Media Coverage





more of

पणिमाः न्यूम नेटकार्ड

जान, प्रभाग प्राणंत नेतन, कोटा, आत आजा फेल्सा करने करने तमें, आजीविक, करतों की राष्ट्राइ ये साम हेको से फांच काम करीता. जीतिक मेठला फिटने हेट जिंहा इस मीक पर कई महिलाओं क जन्म, तीवी महिला गांगल जोक जिल्हा महिला हे राजना पर गांगणवेन किया गया। गांगहेत अच्छत कीए सांगर कीय से जान साम सामग्रे का जीतिक जावनी प्रत्यतिका में प्रयत जा समार केंद्र मानन अधिन से। अनमानन पर नकरत बातन के अला, उनकी साम, केंद्र sotion if sight and/are it mean if though a server marks, there from some रोक्स सिंह देशक में महिला किंग परा अटांगी कासीराम से आह सार्या वस्त्रेल सीम अपि स्थानिकारण हेन् गहिनाही को तामकार चीहते न गतिनाही को जीवह रहे।



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mand/arcent markets रिवर्णिट एवं अटली फाउंट्रेटलन को ओर से बिसान महिलाओं को सुनी, टीक में दी डिक्सीय सैक्षणिक चमण करकाया गया। इस मल को आराणी पाकर के ऑपरेशन एंड मॅटिनेस हेड प्रसन चक्रवनी एवं एचवार हेट दिलीए वाजार्थ ने ठांडी दिखाकर स्वान किया। अहाणी प्रारंहिलन के मोप्सवसिंह देवाहा क समन्त्रपत्र समयाण बोधरी ने बलपा कि धारण में टीक जिले में महिला मैंची मंडल की ओर में संचालित डेयरी एवं किसान उत्पादक संगठन के बारे में महिलाओं को जानकारी दी गई। क्रिमान महिलाओं ने मैठी मंडार के दूध संकलन बिंह का अवलीवान किया। हनी विश्वत देवरी प्रतंह का भी भ्रमण किया।

Media Coverage



Budget V/s Actual FY 2021-2022

				Proposed Budget F.Y.2021-22					
Sr No	Activities	Cost Centre	Internal Order	Capex	Opex	Total	Expenses Up to March -2022 (in Lacks)	% of utilization	Remarks
А.	General Management and Administration	35004401		0.00	29.35	29.35	26.78	91.24%	
В.	Education	35004000		0.00	17.00	17.00	14.96	88.00%	
C.	Community Health	35004101		0.00	114.93	114.93	103.68	90.21%	
D.	Sustainable Livelihood Development	35004301		0.00	49.85	49.85	44.07	88.40%	0
E.	Community Infrastructure Development	35004201		0.00	144.05	144.05	137.03	95.13%	6
	Total Budget:			0.00	355.18	355.18	326.52	91.93%	


Annexure - VI



Date: 26.09.2020

To, The Member Secretary Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur – 302004

Subject: Submission of Environmental Statement for the Financial Year 2019-20.

Ref : Consent to Operate Order No. 2019 - 2020/HDF/2773 dated 09.08.2019.

Dear Sir,

With reference to above subject, kindly find enclosed herewith Environmental Statement for financial year ending 2019-20, along with Form-V prescribed under Rule 14 of the Environment (Protection) Rules 1986, in respect of Kawai Thermal Power Station.

Kindly acknowledge the same.

Thanking You,

For Adani Power Rajasthan Ltd.

Authorized Signatory

Cc: The Regional Officer Rajasthan State Pollution Control Board SPL-2A, Road No.6, Indraprasth Industrial Area, Kota-324005 (Rajasthan)

Encl : As above

Adani Power Rajasthan Ltd NH 90, Atru Road Village Kawai, Tehsii Atru Baran 325 219 Rajasthan, India CIN U40104GJ2008PLC052743 Tel +91744-27-78600

info@adani.com www.adanipower.com Registered Office: "Adani corporate House," Shantigram, Near Vaishno Devi Circle, S. G. Highway, Khodiyar, Ahmedabad - 382 421, Gujarat, India

Registered Office: Adani House, Nr Mithakhali Circle, Navrangpura, Ahmedabad 380 009, Gujrat, India

ENVIRONMENT STATEMENT FOR FINANCIAL YEAR

<u>2019 – 2020</u>



ADANI POWER RAJASTHAN LIMITED

Village: Kawai, Taluka: Atru

Baran, Rajasthan

ENVIRONMENTAL STATEMENT

FORM V

(See Rule 14) Environmental Statement for the financial year (April 2019 to March 2020)

From:

Adani Power Rajasthan Ltd. Village: Kawai, Taluka: Atru District: Baran, Rajasthan – 325 219

To:

The Member Secretary, Rajasthan State Pollution Control Board, 4, Institutional Area, Jhalana Doongri, Jaipur – 302 004

<u> PART - A</u>

i) Name and address of the owner / occupier of the industry Operation or Process

- Name : Mr. Arindam Chatterjee (Station Head)
- Address : NH-90, Atru Road, Village Kawai, Tehsil Atru, Distt. Baran 325219 (Rajasthan)
- ii) Industry category

 Primary-(STC Code)- Secondary-(STC Code) : Primary (Large Scale)
- iii) Production capacity-Units : 1320 MW (2 x 660MW) Power Generation
- iv) Year of establishment : Unit#1 Commissioned on 28th May 2013 Unit#2 Commissioned on 31st December 2013 (Consent to operate is valid up to 29.02.2024).
- v) Date of the last environmental statement submitted: 23.09.2019

PART B

Water and Raw Material Consumption:

1.	Water consumption m ³ /d		
	a)	Process	: 936
	b)	Cooling	: 54980
	c)	Domestic	: 663

	Process water consumption per unit of product output		
Name of	During the previous financial year	During the current financial year	
Products	(2018-19)	(2019-20)	
	(1)	(2)	
Power	2.54 KL/MWh	2.56 KL/MWh	

2. Raw Material Consumption

Name of Raw	Name of	Consumption of raw material per unit of output	
Materials*	Products	During the previous	During the current
		financial year (2018-19)	financial year (2019-20)
(1) Coal	Power	570 gm/Kwhr	561 gm/Kwhr
(2) Fuel Oil	Power	0.08 ml/Kwhr	0.07 ml/kwhr

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment / unit of output:

(Parameter as specified in the consent issued)

Sr. No.	Pollution	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
(a)	Water	Nil	NA	NA
(b)	Air (Particulate Matter in mg/NM ³)	Unit#1 : 2.11 TPD Unit#2 : 2.06 TPD	Unit#1 : 36.13 Unit#2 : 34.09	Within Limit specified in CTO

• Water- No discharge of waste water.

Note- 100% effluent is treated and recycled back. Hence, there is no discharge of effluent in the environment.

PART - D

Hazardous Wastes:

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016).

Sr. No.	Hazardous Wastes	Total Quantity (Kg)	
		During the previous	During the current
		financial year (2018-19)	financial year (2019-20)
a)	From Process	• 7.58 KL (Generated)	• 17.84 KL (Generated)
	 Used/Spent Oil 	• 8.72 KL (Sold Out)	• 12.22 KL (Sold Out)
		• 1.89 KL (Balance)	• 7.51 KL (Balance)
	Discarded	• 42 Nos. (Generated)	• 99 Nos. (Generated)
	Containers	• 42 (Sold Out)	• 60 (Sold Out)
		• 30 Nos. (Balance)	• 69 Nos. (Balance)
b)	From pollution control facilities	NA	NA

<u> PART – E</u>

Solid Wastes:

Sr.	Solid Wastes	Total Quantity (Tons)		
140.		During the previous financial year (2018-19)	During the current financial year (2019-20)	
a)	From Process (Bottom Ash)	O (Laying in Ash Pond)	O (Laying in Ash Pond)	
b)	From pollution control facilities (Ash from ESP)	1027316 (Dispose to Cement & Brick Plant)	1330649 (Dispose to Cement & Brick Plant)	
c)	Quantity recycled or re- utilized within the unit recycled or re-utilized	466558 (In reclamation of low laying area)	213831 (In reclamation of low laying area within Plant premises)	

<u> PART – F</u>

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

- Hazardous waste (Used/Spent oil) is sold to authorized vender. (Please Refer Part D for Hazardous waste generation and disposal)
- Fly Ash utilized by following Industries
 - Birla Corporation Ltd.
 - Heidelberg Cement India Ltd.
 - J.K.Cement Ltd, Nimbahera
 - Mangalam Cement Ltd.
 - Nuvoco Vistas Corp. Ltd.
 - Wonder Cement Ltd.
 - Shri Ram Cement Works
 - J.K.Cement Ltd. (Mangrol)
 - The India Cements Limited
 - ACC Limited
 - Ambuja Cement Ltd.
 - The India Cement Ltd.
 - Tsg Ashtech Movers Pvt. Ltd.

<u> PART – G</u>

Impact of the pollution control measures taken on conservation of natural resources and consequently on the cost of production.

- Kawai Thermal Power Station of M/s Adani Power Rajasthan Limited is based on super critical technology of power generation, which is cost effective and reduce the consumption of both natural resourced raw materials, Water & Coal.
- The stack emissions from the plant are controlled by Electro Static Precipitator (ESP).
- Chimney of 275m height is constructed.
- Other pollution control equipments like Dust Extraction System & Dust Suppression System are installed at various material transfer points to control the fugitive emissions.
- Real time monitoring system for both EQMS & CEMS installed as per the direction of CPCB/RSPCB issued, under Air & Water Act.
- Remote calibration completed in Each Gaseous OCEMS
- Utilization of rain water collected during monsoon in Rain Water Harvesting Pond

<u> PART – H</u>

Additional measures/investment proposal for environmental protection including abatement of pollution

- Installation of Flue Gas Desulphurization (FGD) unit to reduce SO_2 emission as per CPCB direction.
- Installation of Flow monitoring device at both flue cane of Unit-1 & 2.
- Installation of upgraded Electronic Data Display Board for Real time data display in Public domain.

<u> PART - I</u>

Miscellaneous

Any other particulars in respect of Environmental Protection and abatement of pollution.

- 1. 102857 trees planted up to financial year 2019-20 with 90% survival.
- 2. Ambient air quality monitoring by RDS & Fine Particulate Sampler is carried out at 3 locations within plant premises as per CPCB guidelines.
- 3. Continuous Ambient Air Quality Monitoring carried out at 3 locations within the plant premises.
- 4. Continuous Emission Monitoring System is installed and under operation at 80m height in both the flue cane of 275m Chimney.
- 5. Ambient noise levels is being monitored at 10 identified locations within the plant premises.
- 6. EMS as per ISO 14001:2015 is implemented at Kawai Thermal Power Station and certified by TUV NORD CERT GmbH
- 7. Good housekeeping is maintained in and around the plant area. 5S initiative is taken up at Kawai Thermal Power Station.
- 8. Harness of solar energy is introduced by installation of Solar Street Light.
- 9. CTO compliance report is being submitted to RSPCB on quarterly basis.
- 10. Six monthly EC Compliance report is being submitted to RSPCB/MoEFCC on regular basis.
- 11. 5S Implementation for waste minimization
- 12. Integrated Management System has implemented.
- 13. Energy Management System has implemented.
- 14. MoEFCC, RSPCB approved third Party Environment Monitoring is being carried out at quarterly basis.

Authorized Signatory (Adani Power Rajasthan Ltd.)





National Accreditation Board for Testing and Calibration Laboratories

CERTIFICATE OF ACCREDITATION

ENVIRONMENTAL LABORATORY, ADANI POWER RAJASTHAN LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

VILLAGE: KAWAI, ATRU, BARAN, RAJASTHAN, INDIA

in the field of

TESTING

Certificate Number:

Issue Date:

28/08/2019

TC-5235

Valid Until:

27/08/2021*

*The validity is extended for one year up to 27.08.2022

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL. (To see the scope of accreditation of this laboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Identity : ADANI POWER RAJASTHAN LIMITED

Signed for and on behalf of NABL



N. Venkateswaran Chief Executive Officer

Adani Power Rajasthan Limited

Annexure-VIII

Expenditure for Environmental Protection & CSR				
		(Fig. in Rs. Lacs)		
Sr. No.	Particular	Expenditure from (2021-22)		
1.	Rural Development/CSR Activities (Education, community health, Sustainable Livelihood, community Infrastructure development etc.)	326.52		
2.	Green belt Development (Horticulture)	32.41		
3.	Legal, Consent fees	80.18		
4.	Third party monitoring, Services and Equipment & Instruments maintenance, Communication cost.	15.21		
5.	Insurance, training, and external environmental Management (IMS)	13.40		
6.	Cost involved in emission treatment and disposal (AHP, ETP, CHP etc.)	572.00		
Total		772.85		

Page 1 of 1



भारत सरकार Government of India वाणिज्य और उद्योग मंत्रालय Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) Petroleum & Explosives Safety Organisation (PESO) आग्रपाली सर्कल, पावर हाउस के पास, वैशाली नगर जयपुर- 302021 Amrapali Circle, Near Power House, Vaishali Nagar, Jaipur - 302021

> E-mail : dyccejaipur@explosives.gov.in Phone/Fax No : 0141 - 2356731,2356781

> > **9 JAN 2020**

संख्या /No. : P/HQ/RJ/15/2337 (P295058)

सेवा में /To,

and here .

M/s. M/s Adani Pov.er Rajasthan Limited.,, Kawai Thermal Power Project Near Salpura Railway S, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan PIN: 325219 दिनांक /Dated : 09/01/2020

विषय /Sub : Plot No, Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Taluka: Atru, District: BARAN, State: Rajasthan, PlN: 325219 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुजसि सं P/HQ/RJ/15/2337 (P295058) के नवीकरण के संदर्भ में । Existing Petroleum Class B,C Installation at Plot No, Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Taluka: Atru, District: BARAN, State: Rajasthan, PlN: 325219 - Licence No. P/HQ/RJ/15/2337 (P295058) - Renewal regarding.

महोदय /Sir

(s),

कृपया आपके पत्र क्रमांक - दिनांक 07/12/2019 का अवलोकन करें । Please refer to your letter No.: -, dated 07/12/2019

अनुज़सि संख्या P/HQ/RJ/15/2337 (P295058) दिनांक 16/04/2019 को दिनांक 31/12/2022 तक नवीनीकृत कर इस पत्र के साथ अग्रषित की जा रही है । Licence No. P/HQ/RJ/15/2337 (P295058) dated 16/04/2019 is forwarded herewith duly renewed upto 31/12/2022.

कृपया पेट्रोलियम नियम 2002 के अधीन वनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें । अनुजसि के नवीकरण हेनु समस्त दस्तावेजों को अनुजसि की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व कार्यालय को प्रेषित करें ।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence so as to reach this office on or before the date on which Licence expires.

कृपया पावती दें। Please acknowledge the receipt.

भवदीय /Yours faithfully ((डॉ. जी. के. पाण्डे

(Dr. G. K. PANDEY)) विस्फोटक नियंत्रक Controller of Explosives कृते उप मुख्य विस्फोटक नियंत्रक For Dy. Chief Controller of Explosives जयपुर/Jąipur

नयन्त्रक

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमाने ट्रेवसाइट : http://peso.gov.in देखें) (For more information regarding status,fees and other details please visit our website: http://peso.gov.in) प्ररूप XV (प्रथम अनुसूची का अनुच्छेद 6 देखिए) FORM XV (see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुज्ञास LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/HQ/RJ/15/2337(P295058)

फीस रूपए (Fee Rs.) 56250/- per year

GOVERNMENT

Page 1 of 1

M/s. M/s Adani Power Rajasthan Limited.,, Kawai Thermal Power Project Near Salpura Railway S, Kawai, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम 7075.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/RJ/15/2337(P295058) तारीख 07/07/2017 जो कि इससे उपावद हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपवंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञासि की अत्तिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञासि अनुदत्त की जाती हैं ।

Licence is hereby granted to M/s. M/s Adani Power Rajasthan Limited.,, Kawai Thermal Power Project Near Salpura Railway S, Kawai, Kawai, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 valid only for the importation and storage of 7075.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/RJ/15/2337(P295058) dated 07/07/2017 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुचर्सि 31st day of December **2022** तक प्रयृत रहेगी । The Licence shall remain in force till the 31st day of December **2022**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञस मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	. NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	75.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	7000.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL
कल क्षमता /Total Capacity	7075 00 KI

December 4, 2012

Chief Controller of Explosives

1). Amendment dated - 16/04/2019

अनुज्ञस परिसरों का विवरण और अवस्थान DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज़स परिसर जिसकी विन्यास सीमाएं अन्य विशिष्टयां संलग्न अनुमोदित नक्शेी में दिखाई गई हैं Plot No: Plot No. 504, Khasara No. 1337, Survey No. 1337,, NA, Village-Kawai, Teh-Atru,, Taluka: Atru, District: BARAN, State: Rajasthan, PlN: 325219 स्थान पर अवस्थित है तथा उसमें निम्नलिखित 1 Above Ground tank(s) for CLASS B , 4 Above Ground tank(s) for CLASS C सम्मिलित हैं |

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: Plot No. 504, Khasara No. 1337, Survey No. 1337, NA, Village-Kawai, Teh-Atru,, Taluka: Atru, District: BARAN, State: Rajasthan, PIN: 325219 and consists of 1 Above Ground tank(s) for CLASS B, 4 Above Ground tank(s) for CLASS C together with connected facilities.

पेज सं. 2

अन्ज्ञि संख्या-(Licence No.) P/HQ/RJ/15/2337 (P295058)

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नवीनीकरण के पृष्ठांकन के लिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS



यदि अनुजसि परिसर इसमें उपावद विवरण और शर्तों के अनुरुप नहीं पाए जाते है और जिन नियमों और शर्तों के अधीन यह अनुजसि मंजूर की गई है उनमें से किसी का उल्लंघन होने की दशा में यह अनुजसि रद्द की जा सकती है और अनुजसिधारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकता है, या जुर्माने से, जो एक हजार रुपये तक हो सकता है, या दोनों से, और प्रत्येक पश्चातवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुर्माने से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, दण्डनीय होगा |

This licence is liable to be cancelled if the licensed premises are not found conforming to the description given on the approved plan attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offence with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to three months, or with fine which may extend to three months.