SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)

FOR

Jitpur Open Cast Coal Mine Project (2.5 MTPA)

At

VILLAGE JITPUR, TEHSIL SUNDERPAHARI, DISTRICT GODDA, JHARKHAND

Submitted to:

Regional Office, East Central Zone
Ministry of Environment & Forests,
Central Pollution Control Board, New Delhi &
Jharkhand State Pollution Control Board, Ranchi



Submitted by:

Corporate Environment Group
Adani Power (Mundra) Limited

Adani Corporate House, Shantigram, S G Highway, Ahmedabad, Gujarat

PERIOD: October'2020 - March'2021

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	(October '2020 – March '2021)								
	Ambient Air Quality Monitoring								
2.	Water Quality	Annexure I							
	Soil Monitoring								
	Noise Level Monitoring								

Compliance status on Environmental Clearance For Jitpur Open Cast Coal Mine of 2.5 MTPA

Vide EC Letter No. J/11015/148/2008-IA (IIM) Dated- 18.05.2009 and Subsequent Environment Clearance Transfer to APL on dated 06/07/2015

Si.	Conditions	
No.	Conditions	Compliance Status
(i)	Mining shall not be carried out in forestland until forestry clearance is obtained.	Noted. Stage II Forest approval has been received on 03.05.2018. Mining will be carried out after final diversion in favour of APL.
(ii)	The plan for diversion and realignment of the nala and modification of the natural surface drainage and design of the diversion canal shall be done in consultation and approval of the concerned State Flood and irrigation Department. Dimension and depth of the nala should be finalized based on the peak flow of the water.	The proposal has been prepared by M/s WAPCOS & submitted for approval to WRD, Govt. of Jharkhand.
(iii)	Top soil shall be stacked properly with proper slope at earmarked site(s) and shall not be kept active and shall be used for reclamation and development of green belt.	
(iv)	OB shall be stacked at earmarked external OB dumpsite within ML area and shall be a maximum height of 40m only each. The ultimate slope of the dump shall not exceed 28° A minimum 100m distance shall be maintained between the OB dump and Kewari Nala and between the dump and Jitpur village. Monitoring and management of existing reclaimed dump sites shall continue until the vegetation becomes self-sustaining. Compliance status shall be submitted to the Ministry of Environment & Forests and its Regional office located at Bhubaneshwar on yearly basis.	Mining will be carried out as per the approved Mining Plan & suggested action will be taken during operation of mine.
(v)	Catch drains and siltation ponds of appropriate size shall be constructed to arrest silt and sediment flows from soil, OB and mineral dumps. The water so collected shall be utilized for watering the mine area, roads, green belt development, etc. The drains shall be regularly desilted and maintained properly. Garland drains (size, gradient and length) and sump capacity shall be designed keeping 50%	Compliance assured, once the project take off.

	and all all all and all all all all all all all all all al	
	safety margin over and above the peak sudden	
	rainfall and maximum discharge in the area	
	adjoining the mine site. Sump capacity shall also	
	provide adequate retention period to allow	
	proper settling of silt material.	
(vi)	Dimension of the retaining wall at the toe of the	Noted,
	dumps and OB benches within the mine to check	Based on historical Rain fall data action
	run-off and siltation shall be based on the	shall be taken. Mining will be carried out as
	rainfall data.	per the approved Mining Plan.
(vii)	Crushers at the CHP shall be operated with high	Noted & Compliance assured.
	efficiency bag filters, water sprinkling system	Crusher will be installed with dust
	shall be provided to check fugitive emissions	
	from crushing operations, conveyor system,	эн э
	haulage roads, transfer points, etc.	
(viii)	Drills shall be wet operated.	Compliance assured.
(VIII)	Drill's stiali de wet operated.	Compliance assured.
(ix)	Controlled blasting shall be practiced only	Noted,
	during daytime with use of delay detonators.	Compliance assured, once the project take
	The mitigative measures for control of ground	off.
	vibrations and to arrest the fly rocks and	
	boulders shall be implemented.	
(x)	Mineral transportation to linked TPP shall be by	Noted,
	conveyors only.	Change in transportation system, if any, will
	, ,	be submitted to MoEF&CC for amendment.
(xi)	Area brought under afforestation shall not be	Noted,
	less than 326.58 ha which includes reclaimed	Compliance assured, once the project take
	external OB dump (100 ha), backfilled area	off.
	(153.47 ha), along ML boundary, along roads,	
	green belt, in undisturbed areas and in colony by	
	planting native species in consultation with the	
	local DFO/Agriculture Department. The density	
(::)	of the trees shall be around 2500 plants per ha.	Nahad
(xii)	A Progressive Mine Closure Plan shall be	· · · · · · · · · · · · · · · · · · ·
	implemented for reclamation of quarry area of	Compliance assured.
	which 153.47 ha shall be backfilled and	
	afforested by planting native plant species in	Wine closure plan has been approved.
	consultation with the local DFO/Agriculture	
	Department. The density of the trees shall be	
	around 2500 plants per ha. The balance 141.34	
	ha of decoaled area being converted into a	
	water reservoir shall gently sloped along the	
	upper benches and stabilized and reclaimed	
	with plantation.	
L	<u> </u>	

(xiii)	Conservation Plan for endangered species found in and around the project area shall be formulated and for the medicinal plants (in-situ and ex-situ) shall be prepared and implemented in consultation with the State Forest and Wildlife Departments. Separate funds shall be earmarked for implementation of the various activities there under and the status thereof shall be regularly reported to this Ministry and the MOEF Regional Office, Bhubaneshwar.	Wildlife Conservation plan prepared by Dr. D. S Srivastava Principal Investigator and Team of Nature Conservation Society. The Conservation plan submitting to PCCF for valuable suggestions & implementation. Copy of Wildlife Conservation plan had submitted with six monthly compliance report during the period of Oct'15 to March'2016. The Wildlife Conservation Plan has been approved by PCCF, Ranchi. Jharkhand.
(xiv)	No groundwater shall be used for mining operations. Additional water required, if any, shall be met by recycling/reuse of the water from the existing activities and from rainwater harvesting measures.	-
(xv)	Regular monitoring of groundwater level and quality shall be carried out by establishing a network of existing wells and construction of new peizometers, The monitoring for quantity shall be done four times a year in pre-monsoon (May). Monsoon (August), post-monsoon (November) and winter (January) seasons and for quality in May, Data thus collected shall be submitted to the Ministry of Environment & Forests and to the Central Pollution Control Board quarterly within one month of monitoring.	Monitoring of ground water quality is being carried out by third party on monthly basis from existing wells and water level shall be carried out during operation phase. Monitoring report enclosed as Annexure -I. Piezometric wells shall be established, once
(xvi)	The Company shall put up artificial groundwater recharge measures for augmentation of groundwater resource in case monitoring indicated decline in water table. The project authorities shall meet water requirement of nearby village(s) in case the village wells go dry due to dewatering of mine.	Compliance assured. The project management will supply water to nearby villages as and when required
(xvii)	ETP shall also be provided for workshop, and CHP. Effluents shall be treated to conform to prescribed standards, particularly for pH and TSS in case of discharge into any water course outside the lease.	
(xviii)	An STP shall be provided for the township/colony to treat the domestic effluents to prescribed standards and for their reuse in project activities.	·

	R&R shall be based on norms laid down/approval	Noted,
	by the State Government and shall not be	Compliance assured.
	inferior to that in the National R&R Policy and	R&R will be carried out under the Land
	shall be completed within a specified time-	Acquisition, Resettlement & Rehabilitation
	frame. R&R shall provide for a minimum outlay	Act' 2013. The final R&R package will be
	of Rs. 10 crores and Rs 2 crores as revenue	decided and awarded by the Government of
	expenditure and shall include specific income	Jharkhand.
	generation schemes.	
(xx)	For monitoring land use pattern and for post	Noted,
	mining land use, a time series of land use maps,	Compliance assured, once the project take
	based on satellite imagery (on a scale of 1:	off.
	50000) of the core zone and buffer zone, from	
	the start of the project until end of mine life	
	shall be prepared once in 3 years (for any one	
	particular season which is consistent in the time	
	series), and the report submitted to MoEF and	
	its Regional office at Bhubaneshwar.	
(xxi)	A Final Mine Closure Plan along with details of	Noted,
	Corpus Fund shall be submitted to the Ministry	Compliance assured.
	of Environment & Forests for approval 5 years in	
	advance of final mine closure for approval.	
В.	General Conditions	Compliance Status
(i)	No change in mining technology and scope of	Noted,
\ '		
	working shall be made without prior approval of	Compliance assured.
	working shall be made without prior approval of the Ministry of Environment and Forests.	Compliance assured.
(ii)	the Ministry of Environment and Forests. No change in the calendar plan including	Noted,
	the Ministry of Environment and Forests. No change in the calendar plan including excavation, quantum of mineral coal and waste	Noted,
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	loading, dump trucks (loading and unloading)					
	points shall be provided and properly					
	maintained.					
(v)	Data on ambient air quality (SPM, RSPM, SO2,					
	NOx and heavy metals such as Hg, Pb, Cr, As,	s, Six monthly compliance report accordance				
	etc)) shall be regularly submitted to the Ministry	γ to the Environmental clearance granted by				
	including its Regional Office at	MoEF&CC is being submitted on regular				
	Bhubaneshwar and to the State Pollution	basis to MoEF&CC, CPCB & JSPCB.				
	Control Board and the Central Pollution Control	Last compliance reports for the period of				
	Board once in six months.	April'2020 to September'2020 had been				
		submitted vide our letter no. APL/Mine				
		/EMD/EC/MoEF/131/11/20 dated 13/11/2020				
(vi)	Adequate measures shall be taken for control of	Noted,				
	noise levels below 85 dB(A) in the work	Compliance assured.				
	environment. Workers engaged in blasting and	Noise level monitoring is being carried out				
	drilling operations, operation of HEMM, etc shall	regularly and reports submitted to the				
	be provided with ear plugs/muffs.	Board. Please refer Annexure –I.				
(vii)	Industrial wastewater (workshop and	Noted,				
	wastewater from the mine) shall be properly	Compliance assured, once the project take				
	collected, treated so as to conform to the	off.				
	standards prescribed under GSR 422 (E) dated					
	19th May 1993 and 31st December 1993 or as					
	amended from time to time before discharge. Oil					
	and grease trap shall be installed before					
	discharge of workshop effluents.					
(viii)	Vehicular emissions shall be kept under control	Noted,				
	and regularly monitored. Vehiclescovered with	Compliance assured, once the project take				
	tarpaulins and optimally loaded. used for					
	transporting the mineral shall be					
(ix)	Environmental laboratory shall be established	Noted,				
	with adequate number and type of pollution	Compliance assured, once the projects take				
	monitoring and analysis equipment in	off.				
	consultation with the State Pollution Control					
	Board.					
(x)	Personnel working in dusty areas shall wear	Noted,				
` '	protective respiratory devices and they shall	Compliance assured, during operation				
	also be provided with adequate training and					
	information on safety and health aspects.					
	Occupational health surveillance programme of					
	the workers shall be undertaken periodically to					
	observe any contractions due to exposure to					
	dust and to take corrective measures, if needed.					
	1 0000 0110 to take corrective illeadores, il fleeded.					

(xi)	A separate environmental management cell	We have established Environment
(^1)	with suitable qualified personnel shall be set	Management Cell with Senior Management
	up under the control of a Senior Executive, who	at Corporate level. Site Environment Cell
	will report directly to the Head of the company	will be created once project is operational.
(xii)	The funds earmarked for environmental	1 1
(^11)	protection measures shall be kept in separate	
	account and shall not be diverted for other	Compilative assured
	purpose. Year-wise expenditure shall be	
	reported to this Ministry and its Regional Office	
	at Bhubaneshwar	
(xiii)	The Regional Office of this Ministry located at	Noted
(*111)	Bhubaneshwar shall monitor compliance of the	
	stipulated conditions. The Project authorities	
	shall extend full cooperation to the office(s) of	_
		the Ministry, Moeracc, cach a sach etc.
	the Regional Office by furnishing the requisite	
(s.cis.d)	data/ information/ monitoring reports	Complied
(xiv)	A copy of this will be marked to concerned	
	Panchayat/ local NGO, if any, from whom any	
	suggestion/ representation has been received	
()	while processing the proposal.	
(xv)	State Pollution Control Board shall display a	Compiled
	copy of the clearance letter at the Regional	
	Office, District Industry Centre and Collector's	
()	Office/ Tehsildar's Office for 30 days.	
(xvi)	The Project authorities shall advertise at least in	•
	two local newspapers widely circulated around	
	the project, one of which shall be in the	
	vernacular language of the locality concerned	
	within seven days of the clearance letter	
	informing that the project has been accorded	
	environmental clearance and a copy of the	
	clearance letter is available with the State	
	Pollution control Board and may also be seen at	
	the website of the ministry of Environment &	
	Forests at http://envfor.nic.in The compliance	
	status shall also be uploaded by the project	
	authorities in their website and regularly	
	updated at least once in six months so as to	
	bring the same in the public domain. The data	
	shall also be displayed at the entrance of the	
	project premises and mines office and in	
	corporate office.	

Application has already been made for name change of the project from Adani Power Limited to Adani Power (Mundra) Limited vide proposal no. IA/JH/CMIN/129973/2019 dated 19.02.2020

Test Report

Project Name . M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

 Sample No.
 :
 VEL/APL/M/01

 Report No.
 :
 VEL/A/2012/01-08

 Reporting Date
 :
 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : BATHI TOLA (Core Zone)

at Kardan Entire Lay Ve	PM 2.5	PM10	SO ₂	NO ₂	CO
Sampling dates	(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m³) 0.61 0.54 0.56 0.59 0.62 0.53 0.57 0.66 0.66 0.53
03-12-2020	26.9	48.6	5.4	17.5	0.61
04-12-2020	25.4	49.7	5.1 Vari	12.5	0.54
10-12-2020	27.9	48.9	(μg/m³) (μg/m³) (μg/m³) 48.6 5.4 17.5 49.7 5.1 12.5	0.56	
11-12-2020	28.3	53.2	5.2	16.4	0.59
17-12-2020	29.1	56.8	4.6	15.6	0.62
18-12-2020	30.4	58.6	6.8	17.5	0.53
24-12-2020	24.7	47.8	7.5	14.5	0.57
25-12-2020	23.8	45.9	6.6 mviir	12.9	0.66
Max.	(µg/m³) (µg/m³	58.6	7.5	18.6	Turrol ab Va
viroLab (Minlan EnviroL	23.8	45.9	4.6	12.5	
Avg.	27.07	51.4	6	15.66	0.59
NAAQS@ Limit	60	100	80 Emire	Lah Va 80 am Eng	rodab 4arn

Note: - MAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

KOMAL SINGH

ARJUN RAWAT

Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

 Sample No.
 :
 VEL/APL/M/02

 Report No.
 :
 VEL/A/2012/09-16

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : VILLAGE - JITPUR

Vardey Englished	PM 2.5	PM10	SO ₂	NO ₂	CO
Sampling dates	(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m³)
03-12-2020	24.6	46.2	6.3	16.8	0.58
04-12-2020	24.9	47.7	5.7	14.7	0.61
10-12-2020	25.2	49.2	6.9	ng/m³) (μg/m³) 6.3 16.8 5.7 14.7 6.9 17.2 5.3 17 6.9 18.6 6.4 15.2 7.3 18.5 5.2 14.1 7.3 18.6 5.2 14.1 6.25 16.48	0.53
11-12-2020	26.7	48.2	5.3	17	0.67
17-12-2020	27.8	51.5	6.9	18.6	0.52
18-12-2020	23.1	44.6	6.4	15.2	0.68
24-12-2020	26.2	47.2	7.3 7.3 Tan 1	18.5	0.71
25-12-2020	22.2	42.4	5.2	14.1	0.48
Max.	27.8	51.5	7.3	18.6	0.71
Mad Vamin. Howevolut	22.2	42.4	5.2 RD Eps	14.1	0.48
Avg.	25.07	47.09	6.25	16.48	0.60
NAAQS@ Limit	60	100	80	80 M	relain 4 sc

Note: - "NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009

KOMAL SINGH

ARJUN RAWAT

(Approved By)

GAT PAY

Note: Terms & conditions refer on backside of test report.

Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

Sample No. : VEL/APL/M/03
Report No. : VEL/A/2012/17-23

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF&CC/IS-5182

Name of Monitoring Location : VILLAGE - PAHARPUR

d am Vinselas Ibatileiat	PM 2.5	PM10	SO ₂	NO ₂	CO
Sampling dates	(μg/m³)	(μg/m³)	(μg/m³)	(μg/m³)	(mg/m ³)
05-12-2020	22.6	43.1	5.9	12.4	0.66
07-12-2020	25.6	48.5	6.2	15.7	0.58
14-12-2019	24.5	46.7	6.9	14.9	0.46
15-12-2020	24.7	49.4	5.7	13.7	0.55
21-12-2020	26.2	44.7	6.4	16.8	0.57
26-12-2020	24.9	45.3	5.2 Env	14.3	0.63
28-12-2020	29.1	43.1 5.9 48.5 6.2 46.7 6.9 49.4 5.7 44.7 6.4 45.3 5.2 42.1 7.5 46.7 7.8 49.4 7.8 42.1 5.2 45.80 6.46	13.7	0.54 0.53	
29-12-2020	28.5		14.3		
Max.	29.1	49.4	7.8	16.8	0.66
Min.	22.6	42.1	5.2	12.4	0.46
TOLA Avg.	25.78	45.80	6.46	14.50	0.56
NAAQS@ Limit	60, Var 60,	100	80	80	- 4

Note: - "NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

 Sample No.
 :
 VEL/APL/M/04

 Report No.
 :
 VEL/A/2012/24-30

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : VILLAGE - PAKERI

ral Ib. Varitan Enwis	PM 2.5	PM10	SO ₂	NO ₂	СО
Sampling dates	(μg/m³)	(µg/m³)	(μg/m³)	(μg/m³)	(mg/m³) 0.49 0.54 0.44 0.62 0.57 0.55 0.53 0.55 0.62 0.44 0.54
05-12-2020	5-12-2020 23.6 38.2		5.1	16.2	0.49
07-12-2020	29.7	53.3	6.8	12.7	0.54
14-12-2019	28.9	51.4	6.7	14.8	0.44
15-12-2020	23.7	43.8	5.3	13.2	0.62
21-12-2020	26.4	49.4	6.3	n Env 19.7ab Va	0.57
26-12-2020	21.2	40.3	6.9	16.8	0.55
28-12-2020	23.7	46.1	5.4	15.9	0.49 0.54 0.44 0.62 0.57 0.55 0.53 0.55 0.62 0.44
29-12-2020	25.8	49.5	5.8	14.2	0.55
Max.	29.7	53.3	6.9	19.7	0.62
Vard Min InviroLate	21.2	38.2	Lub 905:1m Env	12.7 dim [1000 AND 1000
Avg.	25.39	46.35	6.03	15.59	
NAAQS@ Limit	Late Va60 m Libra	100	80 \arda	o Envu80 als Mar	dam Lo 4 ro

Note: - MAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

KOMAL SINGH ANALYST

Pested By

ARJUN RAWAT

(Checked By)

www.vardan.co.in

(Approved By



Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

 Sample No.
 :
 VEL/APL/M/05

 Report No.
 :
 VEL/A/ 2010/01-03

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : BATHI TOLA (Core Zone)

Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	As (ng/m³)	Cd (μg/m³)	Hg (ng/m³	Pb (μg/m³)
05-10-2020	26.2	55.3	6.7	12.3	0.68	BDL	BDL	BDL	BDL	BDL	BDL
10-10-2020	29.7	57.8	5.9	11.9	0.62	BDL	BDL	BDL	BDL	BDL	BDL
17-10-2020	22.6	44.5	8.9	15.6	0.51	BDL	BDL	BDL	BDL	BDL	BDL
Max.	29.7	57.8	8.9	15.6	0.68	BDL	BDL	BDL	BDL	BDL	BDL
Min.	22.6	44.5	5.9	11.9	0.51	BDL	BDL	BDL	BDL	BDL	BDL
Avg.	26.16	51.98	7.26	13.46	0.60	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	60	100	80	80	4	m = fox/r	20	6	Lub Vary	in Elivin	1

Note: - WNAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

BDL-Below Detection Limit.

KOMAL SINGH

(Checked By)

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

Sample No. : VEL/APL/M/06
Report No. : VEL/A/ 2010/04-06

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : VILLAGE - JITPUR

Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	As (ng/m³)	Cd (μg/m³)	Hg (ng/m³	Pb (μg/m³)
07-10-2020	23.7	45.2	6.7	15.4	0.53	BDL	BDL	BDL	BDL	BDL	BDL
14-10-2020	28.4	49.4	7.2	14.7	0.56	BDL	BDL	BDL	BDL	BDL	BDL
21-10-2020	24.1	47.5	7.8	14.8	0.72	BDL	BDL	BDL	BDL	BDL	BDL
Max.	28.4	49.4	7.8	15.4	0.72	BDL	BDL	BDL	BDL	BDL	BDL
Min.	23.7	45.2	6.7	14.7	0.53	BDL	BDL	BDL	BDL	BDL	BDL
Avg.	25.66	47.34	7.24	15.00	0.61	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	60	100	80	80	4	-	20	6	Latt Vary	ra Erra Fr	1

Note: - NAAQ Standards – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

BDL-Below Detection Limit.

KOMAL SINGH ANALYST By)

AR IIIN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Project Name : M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

Sample No. : VEL/APL/M/07
Report No. : VEL/A/ 2010/07-09

Reporting Date : 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF&CC/IS-5182

Name of Monitoring Location : VILLAGE - PAHARPUR

Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	· As (ng/m³)	Cd (μg/m³)	Hg (ng/m³	Pb (μg/m³)
09-10-2020	28.7	54.8	7.6	13.7	0.55	BDL	BDL	BDL	BDL	BDL	BDL
13-10-2020	27.6	51.7	6.7	14.9	0.66	BDL	BDL	BDL	BDL	BDL	BDL
19-10-2020	26.2	50.5	7.3	14.8	0.59	BDL	BDL	BDL	BDL	BDL	BDL
Max.	28.7	54.8	7.6	14.9	0.66	BDL	BDL	BDL	BDL	BDL	BDL
Min.	26.2	50.5	6.7	13.7	0.55	BDL	BDL	BDL	BDL	BDL	BDL
Avg.	27.48	52.46	7.18	14.40	0.60	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	60	100	80	80	4		20	6	th Versil	HE HUY	1

Note: - PNAAQ Standards – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)]. [Part-II-sec.-3(i)] 18.11.2009.

BDL-Below Detection Limit.

ANALYST

ARJUN RAWAT

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Note: Terms & conditions refer on backside of test report.



Test Report

Project Name M/s Adani Power (Mundra) Limited

Jitpur Open Cast Coal Mine (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda Jharkhand.

 Sample No.
 :
 VEL/APL/M/08

 Report No.
 :
 VEL/A/ 2010/09-12

 Reporting Date
 :
 04/01/2021

Testing Protocol/Method : As per CPCB/SPCB/MoEF & CC/IS-5182

Name of Monitoring Location : VILLAGE - PAKERI

Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	As (ng/m³)	Cd (μg/m³)	Hg (ng/m ³	Pb (μg/m³)
16-10-2020	24.7	41.8	6.7	13.7	0.51	BDL	BDL	BDL	BDL	BDL	BDL
23-10-2020	22.6	46.2	6.9	12.5	0.64	BDL	BDL	BDL	BDL	BDL	BDL
30-10-2020	21.7	43.7	6.1	13.6	0.62	BDL	BDL	BDL	BDL	BDL	BDL
Max.	24.7	46.2	6.9	13.7	0.64	BDL	BDL	BDL	BDL	BDL	BDL
Min.	21.7	41.8	6.1	12.5	0.51	BDL	BDL	BDL	BDL	BDL	BDL
Avg.	23.08	43.94	6.54	13.20	0.58	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	60	100	80	80	4	ewina	20	6	Vingan E	wirment	10

Note: - WNAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

BDL- Below Detection Limit.

KOMAL SINGH

ANALYST (Tested By) ARJUN RAWAT

(Checked By)

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Test Report

Sample No.:

VEL/APL/AN/01-06

Report No.:

VEL/N/2010/001-006

Project Name:

M/s Adani Power (Mundra) Limited

Reporting Date:

04/01/2021

roLab Vardan Errorol Jit

Jitpur Open Cast Coal Mine (2.5 MTPA) Tehsil-Sunder pahari, District-Godda

Jharkhand.

Testing Protocol/ Method

As per CPCB/SPCB/MoEF & CC/IS-9989

NOISE LEVEL MONITORING RESULTS

Vargan EnviroLau Varg	Noise L	evel in dB(A)
Date of Monitoring	Day Time (6:00 am to 10:00 pm) Minimum-Maximum	Night Time (10:00 pm to 06:00 am) Minimum-Maximum
04/102020	47.9 – 57.5	roLab Vardan Envirol
10/10/2020	41.4 - 54.9	35.4 - 50.4
16/10/2020	45.6 - 64.7	32.6 - 49.6
21/10/2020	42.4 - 63.8	17.8 - 54.3 MTOLAN 18 54.3 MTOLAN 18 54.3 MTOLAN 18 54.3 MTOLAN 18 54.3 MTOLAN 18 54.3 MTOLAN 18 54.3 MTOLAN
24/10/2020	43.6 - 59.5	38.2 – 45.5
29/10/2020	49.4 – 62.6 En	39.3- 49.2
viroLab Vardan EnviroLab Lab Vardan EnviroLab	andan En 55.00 ab Vardar E	nn EmviroLail nviroLail va 45.00
	04/102020 10/10/2020 16/10/2020 21/10/2020 24/10/2020	Date of Monitoring Day Time (6:00 am to 10:00 pm) Minimum-Maximum 04/102020 47.9 - 57.5 10/10/2020 41.4 - 54.9 16/10/2020 45.6 - 64.7 21/10/2020 42.4 - 63.8 24/10/2020 43.6 - 59.5 29/10/2020 49.4 - 62.6

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ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/01

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description:

Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol:

GROUND WATER
Village-BATHI TOLA

VardanEnviroLab Representative

As per Work Order

IS-10500-2012,APHA

Report No.:

VEL/W/2010/17/001

Format No.:

Party Reference No.: NIL

Reporting Date:

22/10/2020

7.8 F-01

Period of Analysis:

17/10/2020 to 22/10/2020 17/10/2020

Receipt Date: Sampling Date: Sampling Quantity:

15/10/2020 2.0 Ltr

Sampling Type:

Grab

Preservation: Refrigerated

S. No.	nviroLab Vardan Env oLab Vardan EnviroL Vardar Parameter ab Var	roLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vard	ol ab Vardan Enviro > Vardan EnviroLab an Env Result > Varda	Unit	Limits of IS:10500 2012 Permissible limit in the Absence of
viroLa	viroLab vardan Enviro Ib Vardan EnviroLab V	Lab Vardan EnviroLab Vardan Envirol ardan EnviroLab Vardan EnviroLab Va	rdan EnviroLab Var	ian Envi	Alternate Source
i Livi	pH (at 25 °C) APHA ,4500-H ⁺ B Electrometric Method		7.92	Fardan k	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method *BDL (**DL 5Hazen)		Hazen	nvirous 15
3.45	Turbidity Turbidity	APHA, 2130 B, Nephlelometric Method	< 5.0	NTU	Lab Var 5111 nov
4.	Odour dan EnviroLab V	APHA, 2150 B, Threshold OdourMethod	Agreeable	an Boy	Agreeable
5.	Taste Vardan EnviroLa	APHA, 2160 B, Threshold Test Method	Agreeable	arcen i	Agreeable
6.	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	Varda176.00 Holan	/= mg/l-	mwing 600 and a
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	62.86	mg/l	200
8.	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	edam Ed58.31 Lab Var	a mg/l	600 and
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	48.55	mg/l	1000
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	/ardan	nviroLab Varsa
High	"Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	rdan En 4.66 Lab Var	mg/l	100
13.	Total Dissolved Solids	APHA . 2540 C. Gravimetric Method	315.00	mg/l	2000
14./	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	2 Varder 8.23 viro Lab	/= mg/l	dviroL400 lande
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	0.32	mg/l	1.5
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	8.69	mg/l	No Relaxation
17.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.16	mg/l	No relaxation
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	nviron 0.2 mila Lab Mardan Enir
19.	Boron	APHA. 4500B C, Carmine Method	as Vard 0.18	mg/l	r Environal alla Viani Pollab Samuel II-
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation



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(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample	No.: VEL/APL/W/01	varoun EnviroLab varoan EnviroL	Invirol ab Vardan E	Repo	ort No: VEL/W/2010/17//001
S. No	Vardan Envirol oLab Vardan Envi Parameter oLa Vardan Envirolah	b Vardan EnviroLab Vardan Enviro oLab Vardan EnviroLab Vardan EnviroLab Vardan enviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab	Lab Vardan Envirol rivolab Vardan Envirolab EnviroResult Vardan virolab Vardan Envirolab b Vardan Envirolab	ab Vardan roLab Var En Unit al roLab Var Vardan E	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source
21	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	525	μS/cm	Vandan EnviroLau ya yan
23,	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	dan Envirol.0 h - m dh
24.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.32	mg/l	ardar Envilous Vax EnviroLab Varian La
25.	Copper as Cu	APHA . 3111 B. Direct Air, Acetylene Flame Method	Invited 0.10 fan Envi	mg/l	dan Envirol.5 b Ledai Vardan Enviro Lala Va
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	dan Envir 0.3 bi varda Inviro Lab Vandan Envi
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	dan Et No Relaxation
29.	Selenium as Se	APHA . 3114 B. Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30.	Arsenic as As	APHA . 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.05
31.	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
32.	Total Coliform	IS 1622	Envirol 2 Vardan	MPN/100ml	Shall not be detectable in any 100 ml sample
33.	E. Coli	Varuan Envir IS 1622	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample

ARJUN RAWAT

an EnviroLab Vardan EnviroLab Vardan Envirot

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/02

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description: Sample Location:

Sample Collected by: Parameter Required:

Sampling and Analysis Protocol:

GROUND WATER
Village-JETKA TOLA

VardanEnviroLab Representative

As per Work Order IS-10500-2012,APHA Report No.:

VEL/W/2010/17/002

Format No.: 7.8 F-0

Party Reference No.: NIL

Reporting Date: 22/10/2020
Period of Analysis: 17/10/2020 to 22/10/2020

Receipt Date: 17/10/2020
Sampling Date: 15/10/2020
Sampling Quantity: 2.0 Ltr
Sampling Type: Grab

Preservation: Environ Refrigerated

S. No.	oLab Vardan EnviroL Vardan EnviroLab Var ViroLa Parameter B Vardan EnviroLab V	ib Vardan EnviroLab Vardan EnviroLab dan EnviroLab Vard Lab Vardan E Test-Method ardan EnviroLab Vardan EnviroLab Va	Vardan EnviroLab an EnviroLab Varda Result roan EnviroLab Var	Unit	Limits of IS:10500 - 2012 Permissible limit in the Absence of Alternate Source
rdan	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.64	ab-Var	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	15
3.	Turbidity Vandum Emvir	APHA, 2130 B, Nephlelometric Method	Lab Vard< 0.5 nviroL	NTU	n Envirosan Vari
4.	Odour	APHA, 2150 B , Threshold OdourMethod Agreeable		'ardan i	Agreeable
5.11	Taste Lab Valuan Env	APHA, 2160 B, Threshold Test Method	Agreeable	Lab Yar	Agreeable
6.	Total Hardness as CaCO ₃	Flardness as CaCO ₃ APHA . 2340 C. EDTA Titrimetric Method 191.00		mg/l	600
7.	Calcium as Ca	alcium as Ca APHA, 3500 Ca B, EDTA Titrimetric Method 66.74		mg/l	200
8.	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	Wardail76.54 iroLah	mg/l	mviro 600
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	52.18	mg/l	1000
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	mg/l	Lab Vanton Lovi
11.	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA . 3500 Mg B, Calculation Method	Vardar5,95 viro Lab	mg/l-	oviro 100 anda
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	319.00	mg/l	2000
14.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	lan Envi7.63ab Varda	mg/l	Lab Va 400
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	0.37	mg/l	1.5
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	Varda 7.05 Wolale	mg/l	No Relaxation
17.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.21	mg/l	No relaxation
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Lab Vato,2 in First
19.	Boron dan Envirolativ	APHA, 4500B C, Carmine Method	nciem Em 0.17 Lab Vat	mg/l	rokab irarnimien
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation

PRIYANKA Piyanto ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample	No.: VEL/APL/W/02	nymotab Vardon Envirotab Vardan	LinviroLab Vardan E	Rep	ort No: VEL/W/2010/17/002
S. No	EnviroLab Vardan Env EnviroLab Vardan iroL Parameter EnviroLa o Vardan EnviroLa nviroLab Vardan E	iroLab Vardan EnviroLab Vordan En EnviroLab Vardan EnviroLab Varda iroLab Vardan Eret-Methodab Vardan Er o Vardan EnviroLab Vardan EnviroLab nviroLab Vardan EnviroLab Vardan	viroLab Vardan Env n EnviroLab Vardan viroLab Result an Env ab Vardan EnviroLal EnviroLab Vardan E	roLab Varo EnviroLab IroLohi Var Vardan En SviroLab V Jab Vardan	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	532	μS/cm	Mandan English an Vi-
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	viroLab Val.0 an Environment
24.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	Lah Var 0.23 Envirol Vin Lah Vardan Env	mg/l	EnviroLab 15 min Em Ian EnviroLas Vardar
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	n Ervipo 0.12 Vardan vico Lab Vardan Env	mg/l	Vardan Emil 5 to Sa Var Ian Envirol ab Vardan
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	iwiroLab V 0.3 lan Environed an EnviroLab Varca
27.	Cadmium as Cd	APHA . 3111 B. Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation
29	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.05
31.	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
32.	Total Coliform	IFGL ab Varday IS 1622 Lab Varday E	wireLah Vardan Em	MPN/100ml	Shall not be detectable in any 100 ml sample
33.	E. Coli	IS 1622	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit **DL- Detection Limit

ila ar rec ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/03

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description: Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol:

GROUND WATER
Village- RAMPUR

VardanEnviroLab Representative

As per Work Order IS-10500-2012,APHA Report No.:

VEL/W/2010/17/003

Format No.: 7.8 F-01

Party Reference No.: NI

NIL

Reporting Date:

22/10/2020

Period of Analysis:

17/10/2020 to 22/10/2020 17/10/2020

Reccipt Date:
Sampling Date:
Sampling Quantity:
Sampling Type:

15/10/2020 2.0 Ltr

Grab

Preservation: Refrigerated

S. No.	oLab Vardan EnviroL Vardan EnviroLab Var ViroLa Parameter Enviro b Vardan EnviroLab V oLab Vardan EnviroL	in Vardan EnviroLab	o Vardan EnviroLab lan EnviroLab Varda Lab Var Result nviroLa roan EnviroLab Var o Vardan EnviroLab	Vardan n Enviro b Unit a lan Envi Vardan l	Limits of IS:10500 - 2012 Permissible limit in the Absence of Alternate Source
r (Jan	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	7.53	lab yard	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	Lab Var15 m Envi
3.	Turbidity Turbidity	APHA, 2130 B, Nephlelometric Method	cau Varde2.1 LinviroL	NTU	n Envirosas Vard
4.	Odour	APHA, 2150 B , Threshold OdourMethod Agreeable		ardan l	Agreeable
5.	Taste	APHA, 2160 B, Threshold Test Method Agreeable		Lab Mari Varelan	Agreeable
6.	Total Hardness as CaCO ₃	CaCO ₃ APHA, 2340 C. EDTA Titrimetric Method 142,00 Variation		mg/l	Lab Va 600 - Env
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	44.62	mg/l	200
8. 1	Alkalinity as CaCO ₃	Na APHA , 2320 B, Titrimetric Method	Warda 127.18 IroLab	mg/l	nvirol 600
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	30.76	mg/l	1000
10.	Residual Free Chlorine	an EAPHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	mg/l	Lab Verdan Ilmi
11.	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA, 3500 Mg B. Calculation Method	Warda 7.45	mg/l	TWIFOL 100
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	246.00	mg/l	2000
14.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	7.56	mg/l	400
15.	Fluoride as F	APHA, 4500-F- D, SPADNS Method	rdan En 0.58 Lab Var	mg/l	1.5
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	5.74	mg/l	No Relaxation
17,	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	y Varda (0.22 vino Lab	mg/l	No relaxation
18.	Aluminium as Al	Manufacture Control and Contro		mg/l	n Envirolativar
19.	Boron	APHA, 4500B C. Carmine Method	0.35	mg/l	rotati variate
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation

PRIVSANDYA Pryanter ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample	No.: VEL/APL/W/03	iroLab Vardan EnviroLab Vardan Em	iroLab Vardan Envi	roLab V Re	port No: VEL/W/2010/17/003
S. No	viroLab Vardan Er b Vardan EnviroL oLal Parameter Enviro EnviroLab Vardan roLab Vardan Env	viroLab Vardan EnviroLab Vardan E ab Vardan EnviroLab Vardan Enviro roLab Vardan Test-Methodo Vardan Em EnviroLab Vardan EnviroLab Vardan roLab Vardan EnviroLab Vardan En	nviroLab Vardan En ab Vardan EnviroLa iroLab Result in Envir EnviroLab Vardan iroLab Vardan Envi	viroLab V. b Vardan roL Unitare InviroLab	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	410	μS/cm	EnviroLab Varca o Ir 1
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	ion EnviroL1.0 Vaidet L Vardan EnviroLah Vasd
24.	Zine as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.34	mg/l	tan Envirol ₄₅ ; WiroLab Vacdan Emmon
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	* BDL(**DL 0.03 mg/l)	mg/l	irdən Envirt.5 ə ə Vercəi Envirol.ab Vai san Pevü
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	Vardan Envirough Vard
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation
29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	Jan Enviro 0.05
31.	Mercury as Hg	APHA . 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
32.	Total Coliform	nb Vardan Envil S 1622 Vardan Enviro Polah Vardan Envirolah Vardan En	alı Vardı<2 EnviroLa İroLab Vardan Envi	MPN/100ml	Shall not be detectable in any 100 ml sample
33.	E. Coli Lah Vardan	EnviroLab Va. IS 1622 roLab Vardar rollab Vardan EnviroLab Vardan En	Enviro Absent ardan	MPN/100ml	Shall not be detectable in any 100 ml sample

Note: - *These parameter are not covered in our NABL scope.
*BDL-Below Detection Limit, **DL- Detection Limit

ARJUN RAWAT

Checked By)



Sample Number:

Name & Address of the Pa

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description: Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol: GROUND WATER

Village- KEROJORI BARA VardanEnviroLab Representative

As per Work Order IS-10500-2012, APHA

Format No.: Party Reference No.:

Reporting Date:

22/10/2020

Period of Analysis:

17/10/2020 to 22/10/2020

Receipt Date: 17/10/2020 Sampling Date: Sampling Quantity: Sampling Type:

15/10/2020 2.0 Ltr

Grab

Preservation: lefrigerated

S. No.	nviroLab Vardan EnviroL oLab Vardan EnviroL Vardar Parameter ab var viroLab Vardan Enviro b Vardan Envirol ab V	roLab Vardan Enviro Lab Vardan Enviro b Vardan Enviro La Lab Enviro Lab Vardan Enviro Lab Vardan Enviro Lab Vardan Enviro	oLab Vardan Enviro o Vardan EnviroLab lan EnviroLab Varda Lab Vardan EnviroLa rdan EnviroLab Vardan	Unit	Limits of IS:10500 - 2012 Permissible limit in the Absence of Alternate Source
a El, vii	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	Wardan 7.69 irro Lali	landan t	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	invirgitals Vandar
	Turbidity EnviroLab Var	APHA, 2130 B, Nephlelometric Method	an Envird!4ab Vardn	NTU	Lab Vardan Envi
4.	Odour	APHA, 2150 B, Threshold OdourMethod	Agreeable	lan Env	Agreeable
5.VII	Taste Vardan Envirol.	APHA, 2160 B, Threshold Test Method	Agreeable	/ardan l	Agreeable
6.	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	205.00	mg/l	600
re7,ab	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	2m Env 76.38	mg/l	Lab Va 200
8.	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	186.57	mg/l	600
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	61.52	mg/l	1000
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	/= mg/l	InviroLab Yardar
oHap	#Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	rdan En 3.51 Lab Van	mg/l	reLab 100 pm Em
13.	Total Dissolved Solids	APHA . 2540 C. Gravimetric Method	335.00	mg/l	2000
14.	Sulphate as SO ₄	APHA . 4500 E. Turbidimetric Method	Vardar9.51 viroLab	mg/l	nvirol 400
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	0.36	mg/l	1.5
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	rdam Em 9.66 Lab Vari	a mg/l	No Relaxation
17,	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.25	mg/l	No relaxation
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	nwirnL 0.2 avow Lab Vardan Envi
19.	Boronab Vardam Emviro	APHA, 4500B C, Carmine Method	ab Vard 0.16	mg/l	n Envirollab Ver
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation



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Note: Terms & conditions refer on backside of test report.



Test Report

Sample	No.: VEL/APL/W/04	oviroLab Vardan EnviroLab Vardan	EnviroLab Vardan E	Rep	ort No: VEL/W/2010/17/004
S. No /i	ib Vardan Envirol rolab Vardan Envi Envirolab Vardan rola Parameter Env Vardan Envirolab virolab Vardan Er	ab Vardan EnviroLab Vardan Enviro roLab Vardan EnviroLab Vardan En EnviroLab Vardan EnviroLab Varda roLab Varda Test-Methodib Vardan En Vardan EnviroLab Vardan EnviroLab iviroLab Vardan EnviroLab Vardan	viroLab Vardan EnviroL viroLab Vardan Env n EnviroLab Vardan viroLal Result an Env ib Vardan EnviroLal EnviroLab Vardan E	retab Vardan retab Vard Envirotab irotUnit/ar o Vardan En nvirotab V	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	LEWING 558 Varidan	μS/cm	Vardan EnviroLeb Viir
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	wiroLab Val.0
24.	Zinc as Zn	APHA.3111 B, Direct Air, Acetylene Flame Method	0.32 Enviro	mg/l	EnviroLab 15urdan Env
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Vardan Enl.5 oLab Var
26.	Manganese as Mn	APHA, 3111 B. Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	wiroLab v 0.3 an Enviro
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation
29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30.	Arsenic as As	APHA, 3114 B. Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.05
31,	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	an En No Relaxation
32.	Total Coliform	IS 1622	ri Envirol⊘r vardari viroLah Vardan Env	MPN/100ml	Shall not be detectable in any 100 ml sample
33.	E. Colin Environal vironal Vardan E	Varian Envil IS 1622 and Envilor	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit. **DL- Detection Limit

ARJUN RAWAT

- (Chrecked By

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party

VEL/APL/W/05

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description:
Sample Location:
Sample Collected by:

Parameter Required: Sampling and Analysis Protocol: GROUND WATER
Village- PAHARPUR

VardanEnviroLab Representative

As per Work Order IS-10500-2012,APHA

Report No.: VEL/W/2010/17/005

Format No.: 7.8 F-01

Party Reference No.: NIL

Reporting Date: 22/10/2020

Period of Analysis: 17/10/2020 to 22/10/2020

Receipt Date: 17/10/2020
Sampling Date: 15/10/2020
Sampling Quantity: 2.0 Ltr
Sampling Type: Grab
Preservation: Refrigerated

S. No.	Parameter Varian Environment	roLab Vardan EnviroLab Vardan Enviro in Vardan EnviroLab Vardan EnviroLab dan EnviroLab Test-Method Lab Vardan EnviroLab Vardan EnviroLab Jardan EnviroLab Vardan EnviroLab Var	Lab Vardan EnviroL Vardan EnviroLab V en Envir Result Vardan eb Vardan EnviroLab dan EnviroLab Varda	Unit	Limits of IS:10500 - 2012 Permissible limit in the Absence of Alternate Source
n Havi	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	Vardan E7.60 roLab V	urd a n P	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	nviroLab Vardan
3.	Turbidity Environmental Va	APHA, 2130 B, Nephlelometric Method	ın Envirc<0.5 Vardan	NTU	Lab Varisan Envir
4.	Odour	APHA, 2150 B, Threshold OdourMethod	Agreeable	varde is Eliv	Agreeable
5. /	Taste Vardan EnviroL	APHA, 2160 B, Threshold Test Method	Agreeable	ırdan i	Agreeable
6.	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	Vargan 171.00	mg/l	600 ardan
rc7.ab	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	in Envir 61.95 Vardan	mg/l	Lab Va 200 m Envir
8.	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	152.64	mg/l	600
9. 11	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	49.07	mg/l	1000
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	mg/l	SpyiroLab Vardan
i olija	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12,	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	dan Erw 3.99 ala Vard	mg/l	roLab \100 lan Em
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	291.00	mg/l	2000
14.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	Vardam 8.16 mp_ab V	mg/l	EnviroL400
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	0.62	mg/l	1.5
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	dan Env 7.96 and Vand	mg/l	No Relaxation
17.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.16	mg/l	No relaxation
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Envirol 0.2 Vardan Lab Vardan Elnür
19.	Boron all Varidation Emilia	APHA, 4500B C, Carmine Method	nb Varda 0.19 IviroLai	mg/l	n Envirollab Varia
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation



ARJUN RAWAT

Approved By)

Note: Terms & conditions refer on backside of test report.



Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001|ISO 14001|ISO 45001

Test Report

Sample	No.:VEL/APL/W/05	iroLab Vardan EnviroLab Vardan Er	ringLab Vardan EnviroLab (Report No: VEL/W/2010/17/			
dan Er virot S. No ardan n Envi	Vardan EnviroLat viroLab Vardan Er ib Vardan EnviroL oLat Parameter Envi EnviroLab Vardan roLab Vardan Env	Vardan Envirolab vardan Envirolab Vardan invirolab Vardan Envirolab Vardan	ib Vardan EnviroLab EnviroLab Vardan Er Lab Vardan EnviroLa ViroLab Resultan Envi n EnviroLab Vardan ViroLab Vardan Envi	Vardan Ei viroLab V ib Vardan roL Unit and EnviroLab roLab Var	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source	
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002	
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	Laintege 485 EnviroL	μS/cm	EnviroLah H incan Enc	
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	Vardan Enviror	
24.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.41	mg/l	wirmEzh Vavdar Emilia	
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.12 EnviroL	mg/l	Envirolation Consum Con-	
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	Vargan En 0.3	
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation	
28.	Lead as Pb	APHA, 3111 B, Direct Air. Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation	
29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation	
30.	Arsenic as As	APHA, 3114 B. Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	dan Envirco.05 Ardara	
31,	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation	
32.	Total Coliform	ab Vardan envils 1622 Vandan Envir roLab Vardan enviroLab Vardan En	Lah Vard<2 EnviroL viroLab Vardan Envi	MPN/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli Lab Vardan roLab Vardan Env	Enviro Lab Var IS 1622 Var Lab Varda To Lab Vardan	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit, **DL- Detection Limit

PRINTENNIKA Pryants ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/06

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description: Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol: GROUND WATER

Village- DAHUBERA VardanEnviroLab Representative

As per Work Order

IS-10500-2012,APHA

Report No.:

VEL/W/2010/17/006

Format No.: Party Reference No.:

7.8 F-01

Reporting Date:

NIL 22/10/2020

Period of Analysis:

dam Envirol

Receipt Date:

17/10/2020 to 22/10/2020 17/10/2020

Sampling Date:
Sampling Quantity:
Sampling Type:

15/10/2020 2.0 Ltr Grab

Preservation: R

Refrigerated

S. No.	oLab Vardan EnviroL Vardar Parameter ab Var ViroLab Vardan Enviro b Vardan EnviroLab V	ib Vardan Enviro Lab Vardan Enviro Lab dan Enviro Lal Test-Method Wiro Lab Vard Lah Vardan Enviro Lab Vardan Enviro Lab Vardan Enviro Lab Vardan Enviro Lab Var	Vardan EnviroLab V In EnviroLah Ib Vardan EnviroLah dan EnviroLab Varda	Unit	Limits of IS:10500 - 2012 Permissible limit in the Absence of Alternate Source
rdan)	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	Lab Vare7.74 EnviroL	ib Wari	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	nvirota 15
3.	Turbidity	APHA, 2130 B, Nephlelometric Method	ub vanda < 0.5 viroum	NTU	i Enviro5ab Vari
4.	Odour	APHA, 2150 B, Threshold OdourMethod	Agreeable	n Envi	Agreeable
5.	Taste o Lab Vardan Env	APHA, 2160 B, Threshold Test Method	Agreeable	ib Vare	Agreeable
6.	Total Hardness as CaCO ₃	APHA, 2340 C. EDTA Titrimetric Method	178.00	mg/l	600
7. En	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	63.76	mg/l	200
8.	Alkalinity as CaCO ₃	APHA , 2320 B, Titrimetric Method	Vanda - 159.25	mg/l	600
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	47.22	mg/l	1000
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	mg/l	Lab Vardan Envi
11.	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	Vandan 4.60 ro-ali V	mg/l	nviraL100 landar
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	377.00	mg/l	2000
14.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	ur Envirc9.150 Vardam	mg/l	Lab Va 400 Egyő
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	0.32	mg/l	uplab Valor
16.	Nitrate as NO ₃	Var IS 3025 (P-34) ,Chromotropic Method	Vardan 3.06	mg/l	No Relaxation
17.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	Vardan 0.11 iroLala V	mg/l	No relaxation
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Lab Var0.2 = Exm n EnviroLan Vari
19.	Boron	APHA, 4500B C, Carmine Method	0.18	mg/l	roLab Varualo Re
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air. Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation

(Tested By)

ARJUN RAWAT

Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample	No.: VEL/APL/W/06	ovirokab Vardon Enyirokab Vardan.	muroLab Vardan EnviroLa Report No: VEL/W/2010/17			
S. No	roLab Vardan EnviroLab Vardan EnviroLab Vardan Folial Parameter EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab	Tib vardan EnviroLab vardan Enviro roLab Vardan EnviroLab Vardan En EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan	viroLab Vardan EnviroLab Vardan Vardan ViroLab Resultian EnviroLab Vardan EnviroLab Vardan E	ab varbar rotab Var Envirotal iro Unit Va o Vardan E nvirotab	Limits of IS:10500-2012 Permissible limit in the Absence of Alternate Source	
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.002	
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	628 Vardan	μS/cm	Vardan ErwiroLali Va	
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	nviroLab VI.0 dar Snvir	
24.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.24	mg/l	EnviroLab ¹⁵ ardan En	
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Vardan Erl.5mor, an Vardan Empirol at the	
26.	Manganese as Mn	APHA, 3111 B. Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mmg/l)	mg/l	nviroLab 10.3 dan Envi	
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation	
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation	
29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation	
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.05	
31,	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation	
32.	Total Coliform	IS 1622	viroLab Vardan Env	MPN/100ml	Shall not be detectable in any 100 ml sample	
33.	E. Coli Warday E	IS 1622	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit, **DL- Detection Limit

Prise BNKA

ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/07

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description: Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol: SURFACE WATER

Down Stream of Kewari Nala Vardan Enviro Lab Representative

As per Work Order IS-10500-2012,APHA Report No.:

VEL/W/2010/17/007

Format No.: 7.8 F-01

Party Reference No.: NIL

Reporting Date: 22/10/2020

Period of Analysis: 17/10/2020 to 22/10/2020

Receipt Date: 17/10/2020
Sampling Date: 15/10/2020
Sampling Quantity: 2.0 Ltr
Sampling Type: Grab
Preservation: lefrigerated

Parameter Test-Method Unit S. No. 7.69 pH (at 25 °C) APHA ,4500-H⁺ B Electrometric Method 1 *BDL (**DL 5Hazen) APHA ,2120 B, Visual Comparison Method Hazen 2. Colour APHA, 2130 B, Nephlelometric Method 7.9 NTU Turbidity 3. APHA, 2150 B, Threshold OdourMethod Agreeable 4. Odour APHA, 2160 B, Threshold Test Method 5. Agreeable Taste 132.00 APHA . 2340 C. EDTA Titrimetric Method mg/l 6. Total Hardness as CaCO₃ 45.29 APHA, 3500 Ca B, EDTA Titrimetric Method mg/l 7. Calcium as Ca APHA, 2320 B, Titrimetric Method 110.25 8. Alkalinity as CaCO3 mg/l 32.54 9. Chloride as Cl APHA, 4500-Cl B, Argentometric Method mg/l Residual Free Chlorine APHA, 3500 CI B Iodometric Method *BDL(**DL 0.02 mg/l) 10. *BDL(**DL 0.05 mg/l) 11. *Cyanide as CN mg/l APHA, 4500 CN-D 4.62 12. Magnesium as Mg mg/l APHA, 3500 Mg B, Calculation Method 224.00 13. Total Dissolved Solids mg/l APHA, 2540 C, Gravimetric Method 14. Sulphate as SO4 mg/l 7.54 APHA, 4500 E, Turbidimetric Method 1.12 15. Fluoride as F mg/l APHA, 4500-F-D, SPADNS Method 7.87 IS 3025 (P-34), Chromotropic Method mg/l 16. Nitrate as NO₃ 0.30 mg/l 17. Iron as Fe APHA, 3500-Fe B 1,10 Phenanthroline Method APHA . 3111 D. Direct Nitrous Oxide- Acetylene Flame *BDL(**DL 0.03 mg/l) 18. mg/1Aluminium as Al Method *BDL(**DL 0.1 mg/l) mg/l 19. Boron APHA, 4500B C, Carmine Method *BDL(**DL 0.03 mg/l) 20. Total Chromium as Cr mg/l APHA, 3111 B, Direct Air, Acetylene Flame Method

PRIVANICA!
Priyante

ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample N	o.: VEL/APL/W/07	Report No: VEL/W/2010/17		
n Environa erdan E e S. Noir iroLab A	Lab Vardan EnviroLab Vardan EnviroLab Vardan Envirol Lab Vardan Envirol Lab Vardan EnviroLab	ardan Envirolab Vardan Envirolab Vardan ab Vardan Envirolab Vardan Envirolab Va (ardan Envirola Test-Method nvirolab Vardan Envirolab Vardan Envirolab Vardan Envi o Vardan Envirolab Vardan Envirolab Vardan Vardan	EnviroLab Vardan EnviroLab EnviroLab Vardan Er EnviroLa Result Ian Enviro ToLab Vardan EnviroLab V an EnviroLab Vardan Env	Varidan En Lab Vardan ViroLab Var Lab Vinit an ardan Enviro roLab Varda
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	rdan Envir 373 Vargan Er	μS/cm
23.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l
24.	Zinc as Zn	APHA . 3111 B, Direct Air, Acetylene Flame Method	0.49	mg/l
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mmg/l)	mg/l
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l
29.	Selenium as Se	APHA . 3114 B. Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l
31	COD b Vardan EnviroLa	APHA 5220 B Open Reflux Method	an Envirol 26.20 arden Env	mg/l
32.	BOD (3 Days at 27°C)	APHA, 5210 C/ IS 3025 (Part 44)	Environ at <5.00 Jan Enviro	mg/l
33.	Dissolved Oxygen	APHA 4500 O B Iodometric Method	Engine at 6.3 relan Engine	mg/l

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit, **DL- Detection Limit

Programma Programma

AR.IIIN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number:

Name & Address of the Party:

VEL/APL/W/08

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda,

Jharkhand

Sample Description:

Sample Location:

Sample Collected by:

Parameter Required: Sampling and Analysis Protocol:

SURFACE WATER

Up- Stream of Kewari Nala

VardanEnviroLab Representative

As per Work Order

IS-10500-2012,APHA

Report No.:

VEL/W/2010/17/00

Format No.:

7.8 F-01

Party Reference No.:
Reporting Date:

NIL

Period of Analysis:

22/10/2020 17/10/2020 to 22/10/2020

Receipt Date:

17/10/2020

Sampling Date: Sampling Quantity: 15/10/2020

Sampling Quantity:
Sampling Type:

2.0 Ltr Grab

Preservation: Refrigerated

S. No.	viro Lab Vardan Enviro Lab Va Parameter ro Lab ardan Enviro Lab Varda	Vardan EnviroLab Vardan EnviroLab Vardan E Lab Vardan EnviroLab Vardan EnviroLab Vard Vardan EnviroLab Test-Method viroLab Vardan E n EnviroLab Vardan EnviroLab Vardan Enviro		olab V Duit
rdi ab	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	oLab Vanda 7.59	milmet jär
2.	Colour	APHA ,2120 B. Visual Comparison Method	*BDL(DL 5 Hazen)	Hazen
E 3./ FC	Turbidity an EnviroLab	APHA, 2130 B, Nephlelometric Method	gyirotah Va6.8m Emvirota	NTU
4.	Odour	APHA, 2150 B, Threshold OdourMethod	Agreeable	Lac Var
17.5	Taste an EnviroLar Var	APHA, 2160 B, Threshold Test Method	Agreeable Agreeable	rd is ii
6.	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	an Enviro L115.00 rdan Envi	mg/l
E177111C	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	40.37	mg/l
8. 11	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	Envirola 91.49 dan Enviro	mg/l
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	nviroLab \ 28.34 n EnviroLa	mg/l
10.	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	Olain's
J. II.	"Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l
12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	3.47	mg/l
13.	Total Dissolved Solids	APHA, 2540 C. Gravimetric Method	211.00 TVIIOLE	mg/l
14.	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	nviroLab V 9.22an EnviroLa	mg/l
15. V	Fluoride as F	APHA, 4500-F- D, SPADNS Method	Varoni 0.11 PROLAD VA	mg/l
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method and Environment	oLab Vand 0.83 nymoLab 1	mg/l
17.	Iron as Fe	APHA, 3500-Fe B 1,10 Phenanthroline Method	0.35	mg/l
18.	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
19.	Boron Vandan Envirol	APHA, 4500B C, Carmine Method	*BDL(**DL 0.1 mg/l)	mg/l
20.	Total Chromium as Cr	APHA, 3111 B. Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l



AR IIIN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Test Report

Sample 1	Sample No.: VEL/APL/W/08 Process Variant Composite Variant Employed National Report No: VEL/W/2010/17/00					
n Envi	EnviroLab Vardan EnviroLab Pardan EnviroLab Vardan Vardan EnviroLab Vardan ViroLab Parameter nviroLa ab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro	fardan Envirolab Vardan	n EnviroLab Vardan Envi	oLab Varda (ardan Eav iroL Unit ar oLab Varda		
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l		
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	Jan Envirol 352 Vardan Em	μS/cm		
23.	*Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l		
24.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	rgan Enviro.48 Vardan E	mg/l		
25.	Copper as Cu	APHA, 3111 B. Direct Air, Acetylene Flame Method	* BDL(**DL 0.03 mg/l)	mg/l		
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mmg/l)	mg/l		
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l		
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l		
29.	Selenium as Se	APHA, 3114 B. Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l		
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l		
31.	COD Vardan EnviroLab 1	APHA 5220 B Open Reflux Method	n EnviroLa 22.70 dan Envir	mg/l		
32.	BOD (3 Days at 27°C)	APHA, 5210 C/ IS 3025 (Part 44)	<5.00	mg/l		
33.	Dissolved Oxygen	APHA 4500 O B Iodometric Method	5.8 = WF0 = W	mg/l		

Note: - These parameter are not covered in our NABL scope.

*BDL-Below Detection Limit, **DL- Detection Limit

nder.

ARJUN RAWAT

(Approved By)

Note: Terms & conditions refer on backside of test report.



Sample Number:

Project:

M/s Adani Power (Mundra) Limited Jitpur Open cast coal (2.5 MTPA)

Jharkhand

Sample Description:

Sampling Location:

Sample Collected by

Sampling & Analysis Protocol:

Tehsil-Sunderpahari, District-Godda

Project Site (BathiTola) Core Zone Area

VardanEnviroLab Team

Format No.:

Party Reference No.: Reporting Date:

Period of Analysis:

Receipt Date: Sampling Date: Type of Sampling:

Sampling Quantity: Depth of Sampling: Packing Status:

NIL

22/10/2020

17/10/2020 to 22/10/2020

17/10/2020 15/10/2020

Composite 2.0 Kg 30 cm

Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
Vacda	pH (at 25 °C)	IS: 2720 (P-26) by pH Meter	ab Var7.72	ALPH Vervi
2.	Conductivity	IS:14767 by Conductivity meter	0.328	mS/cm
103.ab	Soil Texture	IS : 2720 (P-22, RA2003)	Silty Loam	.nviroLab
4	Color	SOP, SP-78,Issue No01& Issue Date-14/02/2013	Yellowish Brown	Envirol al
V5.rda	Water holding capacity	SOP , SP-81,Issue No01& Issue Date-14/02/2013	Lab Va 31.50 Envir	<u>/_ab %</u>
6.	Bulk density	SOP . SP-80.Issue No01& Issue Date-14/02/2013	1.43	gm/cc
ro7ab	Chloride as Cl	SOP, SP-85,Issue No01& Issue Date-14/02/2013	nvirol 62.00 and an	mg/100gn
8.	Calcium as Ca	SOP . SP-82.Issue No01& Issue Date-14/02/2013	50.42	mg/100gm
V9. da	Sodium as Na	SOP , SP-84,Issue No01& Issue Date-14/02/2013	259.64 Envir	mg/100gn
10.	Potassium as K	SOP . SP-84.Issue No01& Issue Date-14/02/2013	82.45	kg./hec.
011,0	Iron as Fe	un III wiro Lab VUSEPA 3050B	0.83	mg/100gn
12.	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.58	%
V13.ca	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	36.12 Envir	mg/100gn
14.	Available Nitrogen as N	IS:14684 Distillation Method	173.15	kg./hec.
015.5	Available Phosphorus (P)	SOP, SP-86,Issue No01& Issue Date-14/02/2013	43.00	kg./hec.
16.	Zinc as Zn	USEPA 3050B	0.46	mg/100gn
V17.da	Manganese as Mn	virou ale Varda USEPA 3050B Virdao Enviro	0.79	mg/100gn
18.	Chromium as Cr	USEPA 3050B	0.36	mg/100gn
19,0	Lead as Pb	an EnviroLab / USEPA 3050B	0.34	mg/100gn
20.	Cadmium as Cd	USEPA 3050B	0.89	mg/100gn
21.	Copper as Cu	WIFELER VERGE USEPA 3050B	0.74	mg/100gn
22.	Molybdenum as Mo	USEPA 3050B	0.55	mg/100gn

Note- SOP- Standard operating procedure

Note: Terms & conditions refer on backside of test report.



Test Report

Sample Number

Project:

M/s Adani Power (Mundra) Limited Jitpur Open cast coal (2.5 MTPA)

Sample Description:

Sampling Location: Sample Collected by Sampling & Analysis Protoco Tehsil-Sunderpahari, District-Godda Jharkhand

SOIL

Project Site (JetkaTola) VardanEnviro Lab Team Format No.:

Party Reference No Reporting Date:

Period of Analysis:

Receipt Date: Sampling Date: Type of Sampling: Sampling Quantity:

Depth of Sampling: Packing Status:

7.8 F-01 NIL

22/10/2020

17/10/2020 to 22/

17/10/2020 15/10/2020 Composite 2.0 Kg

30 cm Temp Sealed

S. No. Parameter Protocol Result Unit IS: 2720 (P-26) by pH Meter pH (at 25 °C) 1 7.76 2. IS:14767 by Conductivity meter Conductivity mS/cm 0.322 IS: 2720 (P-22, RA2003) 4 3. Soil Texture Silty Loam Color SOP, SP-78, Issue No.-01& Issue Date-14/02/2013 4. Yellowish Red SOP, SP-81, Issue No.-01& Issue Date-14/02/2013 % 05. Water holding capacity 20.15 6. Bulk density SOP, SP-80, Issue No.-01& Issue Date-14/02/2013 gm/cc 1.26 Chloride as Cl SOP, SP-85, Issue No.-01& Issue Date-14/02/2013 mg/100gm 7. 45.15 SOP, SP-82.Issue No.-01& Issue Date-14/02/2013 mg/100gm 8. Calcium as Ca 42.00 Sodium as Na SOP, SP-84, Issue No.-01& Issue Date-14/02/2013 mg/100gm 9. 51.37 SOP, SP-84, Issue No.-01& Issue Date-14/02/2013 10. Potassium as K kg./hec. 84.52 % 11. Organic Matter IS:2720 (P-22) Titrimetric Method 0.64 12. Magnesium as Mg SOP, SP-83, Issue No.-01& Issue Date-14/02/2013 mg/100gm 28.16 13. Available Nitrogen IS:14684 Distillation Method kg./hec. 210.45 SOP, SP-86, Issue No.-01& Issue Date-14/02/2013 14. Available Phosphorus kg./hec. 11.28 USEPA 3050B 0.45 mg/100gm 15. Iron as Fe USEPA 3050B mg/100gm 16. Zinc as Zn 7.69 17. USEPA 3050B mg/100gm Manganese as Mn 0.58 18. Chromium as Cr USEPA 3050B 1.06 mg/100gm Lead as Pb USEPA 3050B 0.47 mg/100gm 19. mg/100gm

Note-SOP-Standard operating

Molybdenum as Mo

Cadmium as Cd

Copper as Cu

MAMTA NAYAK SR. (Fested By)

20.

21.

22.

(Checked By)

USEPA 3050B

USEPA 3050B

USEPA 3050B

(Approved By)

0.59

2.10

0.78

Note: Terms & conditions refer on backside of test report.

www.vardan.co.in

mg/100gm

mg/100gm



Sample Number:

Project:

VEL/APL/03

M/s Adani Power (Mundra) Limited Jitpur Open cast coal (2.5 MTPA) Tehsil-Sunderpahari, District-Godda

Jharkhand

Sample Description:

Sampling Location:

Sampling & Analysis Protocol: IS 2720 & USDA

SOIL Village-Rampur

Sample Collected by VardanEnviro Lab Team

Report No.:

Format No.:

Party Reference No.: Reporting Date:

Period of Analysis:

Receipt Date:

Sampling Date: 15/10/2020 Type of Sampling:

Sampling Quantity: Depth of Sampling: 30 cm Packing Status:

VEL/S/2010/17/003

7.8 F-01

NIL 22/10/2020

17/10/2020 to 22/10/2020

17/10/2020

Composite 2.0 Kg

Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
rolali	pH (at 25 °C)	IS: 2720 (P-26) by pH Meter	7.71 and an	EnviroLat
2.	Conductivity	IS:14767 by Conductivity meter	0.331	mS/cm
3.	Soil Texture	IS: 2720 (P-22, RA2003)	Silty Loam	irolal Va
4,	Color	SOP, SP-78.Issue No01& Issue Date-14/02/2013	Yellowish Red	dan Enviro
ro5.ab	Water holding capacity	SOP, SP-81,Issue No01& Issue Date-14/02/2013	26.60	Envir %
6.	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	1.33	gm/cc
b7/ar	Chloride as Cl	SOP, SP-85,Issue No01& Issue Date-14/02/2013	10Lab 49.57 an En	mg/100gn
8.	Calcium as Ca	SOP, SP-82,Issue No01& Issue Date-14/02/2013	41.04	mg/100gn
9.30	Sodium as Na	SOP, SP-84,Issue No01& Issue Date-14/02/2013	52.93 and an	mg/100gr
10.	Potassium as K	SOP, SP-84,Issue No01& Issue Date-14/02/2013	105.48	kg./hec.
bllar	Organic Matter	IS:2720 (P-22) Titrimetric Method	roLab 0.75 an Em	
12.	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	32.61	mg/100gr
13.	Available Nitrogen	IS:14684 Distillation Method	232.00	kg./hec.
14.	Available Phosphorus	SOP, SP-86,Issue No01& Issue Date-14/02/2013	21.16	kg./hec.
15.	Iron as Fe	USEPA 3050B	0.66	mg/100gn
16.	Zinc as Zn	USEPA 3050B	15.18 = Val	mg/100gn
17.	Manganese as Mn	USEPA 3050B	5.63 ardan	mg/100gn
18.	Chromium as Cr	USEPA 3050B	0.36	mg/100gr
19.	Lead as Pb	USEPA 3050B	0.64	mg/100gn
20.	Cadmium as Cd	USEPA 3050B	0.69	mg/100gn
21.	Copper as Cu	USEPA 3050B	2.31	mg/100gn
22.	Molybdenum as Mo	USEPA 3050B	0.45	mg/100gn

Note- SOP- Standard operating procedure

Note: Terms & conditions refer on backside of test report.

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

Test Report

Sample Numbe

Project:

M/s Adani Power (Mundra) Limited Jitpur Open cast coal (2.5 MTPA)

Tehsil-Sunderpahari, District-Godda

Jharkhand

Sample Description:

Sampling Location: Sample Collected by

Sampling & Analysis Protocol:

SOIL Village-Kerojori Bara

VardanEnviro Lab Team **IS 2720 & USDA**

Format No.:

Party Reference No. Reporting Date:

Period of Analysis:

Receipt Date: Sampling Date:

Type of Sampling:

Sampling Quantity: Depth of Sampling:

Packing Status:

VEL/S/2010/17/004

7.8 F-01

NIL

22/10/2020

17/10/2020 to 22/

17/10/2020

15/10/2020

Composite

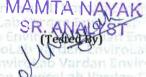
2.0 Kg

30 cm

Temp Sealed

S. No.	Parameter	Protocol	Result	Unit
b Nard	pH (at 25 °C)	IS: 2720 (P-26) by pH Meter	als Va. 7.65 Lyons	Lab Kar da
2.	Conductivity	IS:14767 by Conductivity meter	0.326	mS/cm
3.	Soil Texture	IS: 2720 (P-22, RA2003)	Silty Loam	nviraesh s
4.	Color	SOP, SP-78.Issue No01& Issue Date-14/02/2013	Yellowish Brown	ent English
5.	Water holding capacity	SOP, SP-81,Issue No01& Issue Date-14/02/2013	33.75	%
6.	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	1.26	gm/cc
7. ab	Chloride as Cl	SOP , SP-85,Issue No01& Issue Date-14/02/2013	40.16	mg/100gn
8.	Calcium as Ca	SOP . SP-82.Issue No01& Issue Date-14/02/2013	22.48	mg/100gn
9.	Sodium as Na	SOP , SP-84,Issue No01& Issue Date-14/02/2013	19.32	mg/100gn
10.	Potassium as K	SOP, SP-84,Issue No01& Issue Date-14/02/2013	132.54	kg./hec.
rdlab	Organic Matter	IS:2720 (P-22) Titrimetric Method	0.74	%
12.	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	9.65	mg/100gn
13.	Available Nitrogen	IS:14684 Distillation Method	264.82	kg./hec.
14.	Available Phosphorus	SOP, SP-86,Issue No01& Issue Date-14/02/2013	34.29	kg./hec.
15.	Zinc as Zn	USEPA 3050B	2.67	mg/100gn
16.	Manganese as Mn	USEPA 3050B	0.78	mg/100gn
17.	Chromium as Cr	USEPA 3050B	0.36	mg/100gn
18.	Lead as Pb	USEPA 3050B	0.31	mg/100gn
19.	Iron as Fe	USEPA 3050B	1.39	mg/100gn
20.	Cadmium as Cd	USEPA 3050B	0.68	mg/100gn
21.	Copper as Cu	USEPA 3050B	1.47	mg/100gn
22.	Molybdenum as Mo	USEPA 3050B	0.59	mg/100gn

Note-SOP- Standard operating procedu



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Note: Terms & conditions refer on backside of test report.

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Test Report

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nviroLab VSample NoviroLab Vardan EnviroLab VEL/APL/M/01 Lab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa

Vardan E Name of Monitoring Location b Va: dan E BATHI TOLA (Core Zone) CLab Vardan Enviro Lab Vardan

dan Enviro Project Name Enviro Lab Vardan Enviro M/s Adani Power (Mundra) Limited Enviro Lab Vardan En

Vardan EnviroLab Vardan EnviroLab Vardan Eijitpur Open Cast Coal Mine (2.5 MTPA) an EnviroLab Vardan EnviroLab Vardan

dan EnviroLab Vardan EnviroLab Vardan Envir Tehsil-Sunderpahari, District-Godda Jharkhand.b Vardan EnviroLah Vardan En

ardan Envirence Nordan EnviroLab Vardan EnvvEL/A/ 2101-2103/01-23 ab Vardan EnviroLab Vardan EnviroLab Vardan I

EnviroLab Reporting Date oLab Vardan EnviroLab 05/04/2021 ViroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro

dan Enviro Testing Protocol/Method Vardan: Envir As per CPCB/SPCB/MoEF & CC/IS-5182 ViroLab Vardan EnviroLab
oLab Vardan EnviroLab V	PM 2.5	PM10	SO ₂	NO ₂	CO
an EnvSampling dates n Envi viroLab Vardan EnviroLab	Vard (μg/m³) rola	ν _α (μg/m³)	ab (μg/m³) Επν	roLa(μg/m³)an E	(mg/m³)
EnviroL01-01-2021 Enviro	Lab Vai30.4 Envir	pLab V60.1an Env	iroLat6.2ardan	Enviro16.7 Varda	n Env 0.62 ab Va
02-01-2021	32.4	62.6	5.7	14.6	0.59
oLab Va08-01-2021roLab V	rdan [29.5roLab	Vardar59.4viroLa	b Vard5,2 Envir	Lab v21.6an Em	iroLal0.62rdan
an Enviro9-01-2021 an Envi	oLab 31.9 an En	roLa 66.2 dan E	nvirol6:1 Varda	n Envi16.7ab Var	dan E 0.66 o Lab
15-01-2021	28.7	48.1 _{an En}	iroLab ^{5,9} ardan	Enviro 14.7 Varda	0.59 ab va
dan Env16-01-2021 rdan En	viroLal29/2rdan E	nvirol.46:1/ardar	Envir 6.7ab Var	dan En16.4)Lab V	ardan 0.51/iroLa
22-01-2021	34.6 Envi	60.1 an En	riroLata.2ardan	Environs Varday Env	0.63
23-01-2021 an Envi	oLab 36.3	iroLa 59.2	nvirol7.6 Varda	in Envil4.1ab Var	dan E 0.66 o Lab
viroLab 05-02-2021viroLab	Vardar39.2 viro La	b Vard59.6 nviro	ab Vastan Env	iroLab15.3 dan E	nviroL0.55/arda
06-02-2021	42.1	65.3	Envirol ah Var	14.2	0.68
Enviro 12:02:2021 Enviro	Lab Va38.1n Envir	oLab \65.7an En	iroLal7.1ardan	Enviro13.7 Varda	n Env0.57 ab Va
oLab Va13-02-2021 oLab V	andan F40.1roLab	vardar70.1viroLa	varde.6 Envir	pLab V12.8an Env	roLa 0.53 rdan
19-02-2021	Varda 33.5 VITOL	54.9	ab Va7.2an Env	iroLab16.7 dan E	nviro 0.57/arda
Envirol ₂₀₋₀₂₋₂₀₂₁ Enviro	Lab Vai31.81 Envir	oLab V69.8an Em	iroLal5.9ardan	Enviro11.8 Varda	n Envo.56 ab Va
26-02-2021	32.7	64.7	8.2	13.4	0.58
oLab Va02-03-2021roLab V	irdan (36.8roLab	Vardar54.8viroLa	o Vard5.9 Envir	oLab V12 <i>d</i> an Env	rotal0.53 rdan
an Enviro3-03-2021 an Envi	oLab 35,9lan En	rola 63.8 rdan	nvirolsia Vardi	n Envitage Val	lan E0.55 CLab
Enviro 09-03-2021 Enviro	ab va 31.5 Envir	otab (60.2an En	iroLat7.9ardan	Enviro12.1 Varda	Env0.63 ab V
dan En 10-03-2021 dan En	viroLal28.2rdan E	nviroL48:9/ardar	Envir5.1ab Var	dan Er13.70Lab V	ardan 0.68/iroL
16-03-2021	31.2	65.1	6.8	ol ab Vardan En	0.64
an Envir17-03-2021 an Envi	oLab (26.8) an En	riroLa 46.2 rdan l	nvirol5.5 Vard	in Envi ^{11,9} ab Va	rdan E 0.55 oLab
/iroLab 23-03-2021	Vardar35.6viroLa	o Vard62.4 nviro	Lab Vaggan Env	iroLab14.9 dan E	hviroL0.59/arda
24-03-2021	38.1	67.2	Envir 6.9 Var	dan Envisorab V	0.66
EnviroLabMax.dan Enviro	ab Va 42.1 1 Envir	oLab \70:1an En	viroLal8.2ardan	Envirc21.6 Vard	an Env 0:68 ab V
oLab Vardan EnviroLab V	26.8	Vardar46.1	b Vardan Envir	10.7	0.51
viroLab VarAvg. EnviroLab	Varda33.74 rola	7 Var.59.87nviro	ab V:6.48n Env	iroLal14.54 lan E	pvirol0.60/arda
NAAQS@, Limit	ab Vardon Envir	oLab Vandan Env	iroLab ₈₀ ardan	Envirolab Varda	an EnviroLab V
Can Environa Vardan Enviro	wiroLab Vardan Envir	ovirolab vardat	virol ab Vardan	Envirol ab Vard	an Envirol ab V

Note: - @NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec. 3(0)] 18 [1, 2009.

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Note: Terms & conditions refer on backside of test report. Vandan

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EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan Enviro Project Name Enviro Lab Vardan Enviro M/s Adani Power (Mundra) Limited Enviro Lab Vardan En Vardan EnviroLab Vardan EnviroLab Vardan ErJitpur Open Cast Coal Mine (2.5 MTPA) an EnviroLab Vardan EnviroLab Vardan

nviroLab V Sample NoviroLab Vardan EnviroLab WEL/APL/M/02 Lab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan Envirolab Vardan Envirolab Vardan EnvVEL/A/ 2101 2103/24-46 ab Vardan Envirolab Vardan Envirolab Vardan E

EnviroLab Reporting Date oLab Vardan EnviroLab 05/04/2021 viroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro

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dan EnviroLab Vardan EnviroLab Vardan EnviroTehsil-Sunderpahari, District-Godda Jharkhand. Vardan EnviroLab Vardan En

dan Enviro Testing Protocol/Method Vardar: EnviroAs per CPCB/SPCB/MoEF & CC/IS-5182 ViroLab Vardan EnviroLab
ol ab VardamiTungkol ab Vardi	PM 2.5	PM10	SO ₂	NO ₂	lab v.CO
n EnviroLab Vardan EnviroL	h V ₂ (μg/m³) myiro	Lab (μg/m³) Erry	iroL(μg/m³)dan	nvir(μg/m³) anda	□ E (mg/m³)) V
roLab Va01-01-2021 roLab Var	dan Er28.90Lab V	ardan53.7/iroLa	o Vardīgīg Enviro	Lab Va14.9 n Env	roLab0.56 dan
02-01-2021	30.4	59.8	nviroL7.2 Vardat	20.2	0.62
EnviroLa08-01-2021EnviroLab	Varda31:3nviroL	ab Var57.3 Envir	oLab V8.1dan En	viroLa17!2ardan	Envirc0.65 Var
Lab Var 09-01-2021 Lab Vard	in Env29.2 ab Vai	dan E48.3 OLab	ardan 7.71viroLa	18.3	0.66
roLab Va15-01-2021 roLab Var	dan E 29.4 Lab V	ardan 49.1 iroLa	Vard 5.2 Enviro	Lab V-15.3 n Env	roLat 0.57 dan
EnviroLal16-01-2021 nviroLab	Varda38.31viroLi	b Var 60.8 Envir	oLab V6.6lan En	viroLa21.6ardan	Enviro0.62 Var
22-01-2021	32.7	58.9	ol ab Vardan En	14.9	0.63
oLab Var 23-01-2021 Lab Vard	m Env36.1 ab Var	dan E52.7 oLab	/ardan8t1nviroLa	b Vard6.8 Envir	oLab V0.67an E
in Enviro 05-02-2021 EnviroL	ib Varga,7 Enviro	Lab V69.7an En	roLal _{6.6} ardan	nviro14.2 Varda	0.69
6-02-2021 wrotal	Varda 33.9 viroL	ib Var 52.9 Envir	oLab VZrtan En	viroLa20.7ardan	Enviro0.59 Var
dan Envirt2-02-2021 an Enviro	Lab V 40.8 in Env	roLab70.1rdan E	nviroL5l1 Varda	n Envirale b Var	dan Ero.670Lal
13-02-2021	42.3	47.1	6.8	y Varean Envir	0.58
n Enviro19:02-2021n EnviroL	ab Var35.4 Envir	Lab \49.8an En	riroLal5.2ardan	Enviro12.7 Varda	n Env0.59.ab \
roLab V20-02-2021 Val	dan EnglisoLab V	ardan 62.1	o Vardan Enviro	13.9 Env	0.57
dan Enviro	Lab V36.9 m Env	roLab59.7rdan E	nvirot 5.9 Varda	n Envi 15 17ab Var	dan Er0.63oLal
EnviroLa ₀₂ V ₀₃ -2021 EnviroLab	Varda36.7nvirol.	ab Varsag Envir	oLab V _{6.2} dan En	viroLa _{13.7} ardan	0.58
bLab Vardan EnviroLab Vard	an EnviroLab Var ab Var42.7 Envir	Lab (69.2 an En	vardan EnviroLi viroLal5.9ardan	Enviro12.9 Varda	n Env0.59 ab 1
iroLab Vag-03-2021 roLab Var	dan = 26.9° Lab \	ardan _{42.7} //roLa	o Vardan Enviro	Lab Vardan Env	0.66
dan Envi 10-03-2021 an Enviro	29.4	48.7 dan E	nviroL5.7 Varda	n Envi 17.6 b Var	dan Er0.59oLal
EnviroLa16-03-2021 InviroLat	Varda29.70ViroL	ab Var49.6 Envir	oLab V6.1dan En	viroLa ₁₅ .gardan	Enviroo.6b Va
17-03-2021	26.7	44.9	Vardan EnviroLa	16.1	0.58
iroLab V 23-03-2021 roLab Val	dan Ei29.2oLab V	ardan43.8viroLa	o Vard5.9 Enviro	Lab V.17.4m Env	iroLal 0.56rdar
EnviroLa ₂₄ -03-2021 nviroLab	Varda _{28.4} WiroL	10 Var 44.2	blab V6.6 an En	viroLa15.7ardan	0.62
dan EnviroLab Vardan Enviro EnviroLab V Max an EnviroLab	Vard 42.7	ab va 70.1 Envir	oLab (8.1dan En	virol 21.6 rdan	Envir 0.69 Va
oLab VardanMin.viroLab Vard	in Em 26.7 ab Va	dan F42.7 oLab	Vardar <u>sE</u> nviroL	b Var12.7 Envir	oLab \0.56an B
an EnviroLab Vardan EnviroL iroLab Vard Avg EnviroLab Var	33.24	54.39	var 6.32 nviro	Lab 16.23 Env	roLa 0.61 da
Enviro NAAQS@ Limit / IroLab	Vardar60nviroL	ab Varioo Envir	oLab V80dan En	viroLal ₈₀ 'ardan	Envirolab Var

Note: - @NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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(Approved By)

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001 | WiroLab Vardan EnviroLab Vardan Enviro

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EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan Enviro Project Name Enviro Lab Vardan Enviro M/s Adaní Power (Mundra) Limited Enviro Lab Vardan Enviro Lab Vardan Env Vardan EnviroLab Vardan EnviroLab Vardan E Jitpur Open Cast Coal Mine (2.5 MTPA) an EnviroLab Vardan EnviroLab Vardan

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nviroLab Vsample NoviroLab Vardan EnviroLab VeL/APL/M/03 Lab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan Envireport Nordan EnviroLab Vardan EnvVEL/A/ 2101-2103/47-69 ab Vardan EnviroLab Vardan EnviroLab Vardan I

dan EnviroTesting Protocol/Method Varda: EnviroAs per CPCB/SPCB/MoEF&CC/IS-5182 nviroLab Vardan EnviroLab Va

Vardan E Name of Monitoring Location b Va. dan E VILLAGE - PAHARPUR ViroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En

dan EnviroLab Vardan EnviroLab Vardan Envir Tehsil-Sunderpahari, District-Godda Jharkhand.b Vardan EnviroLab Vardan En

EnviroLab Reporting Date o Lab Vardan EnviroLab 05/04/2021 rviroLab Vardan EnviroLab Vardan

Lab Vardan EnviroLab V	PM 2.5	PM10	SO ₂	NO ₂	TVITO CO Varda
n Env Sampling dates 1 Env	(μg/m³)	(μg/m³)	(μg/m³)	viro (μg/m³) dan	Env(mg/m³)/ar
nvirol 04-01-2021 Enviro	Lab Va34.9n Envi	oLab 68.1 dan E	aviroL5.8 Varda	n Envi 14,7ab Var	ian Ero.550Lab
05-01-2021	30.7	59.1	en EnviroLab Va	15.6	0.56
Lab Va 11-01-2021 oLab V	ordan 36.2 rolah	Vard 62.5 nviro	ab Va8.1m Env	roLab12.8 dan E	viroL0.61Varda
n Envir 12-01-2021 an Env	roLab 34.8dan Er	viroL58.3 ardar	Envir6.7ab Var	dan En _{12.3} 0Lab V	ardano.68/iroL
nvirol 18-01-2021 Enviro	49.7	69.8	5.9 Varda	n Envi 11.9ab Var	lan E 0.62 _{o Lab}
lan Env19-01-2021 dan Er	viro La 29.8 ardan	Envirc61.6 Vard	an Env8.9 Lab Va	ırdan 15.6iroLab	Varda0.51nviro
25-01-2021	33.7	59.4	nviroL6.7 Varda	n Environment	0.53
n Envir 27-01-2021 an Env	48.7	virol 68.3 _{/ardar}	Envir 7.2ab Var	dan Er14.7 ₀ Lab V	ardan0.56viroL
08-02-2021 VITOL ab	Varda39.1viroL	b Var59.5 Envir	oLab 6.8 dan Er	viroL _{14.8} ardan	Enviro.67b Var
09-02-2021	46.8	52.7	8.2	urdan 15.9irol ab	Var. 0.51
nviroL15-02-2021 Enviro	Lab Va47.6 n Env	roLab66.4 dan E	nviroL7.9 Varda	n Envi12.8ab Var	dan E0:53 oLab
16-02-2021	ardan 48.7 roLat	Vard 73.8 nviro	ab Vargan Env	iroLab _{13.7} dan E	avirolo.66Vard
roLab \22-02-2021viroLab	28.1	42.4	olab 5.2 dan Er	viroL14.1/ardan	Envir 0.53b Val
nviroL ₂₃₋₀₂₋₂₀₂₁ Enviro	Lab Va37.6n Envi	roLab43.7 dan E	nviroL5.9 Varda	n Envi13l6ab Var	dan Ei 0.51 oLab
an EnviroLab Vardan Envirol 25-02-2021, Enviro	32.1	44.3	6.2	16.9	0.59
Lab Va 26-02-2021 OLab V	ardan 22.6iroLal	Vard 40.1 nviro	ab Va5.9an Env	roLab12.4 dan E	nvirol0.61Vard
06-03-2021	roLab 23.6dan El	virol 39.5'ardai	Envir6.2ab Var	dan Er15.70Lab V	ardano.58
nviroL08-03-2021 Enviro	24.9	36.7	oLab Vardan El	n Envi 14.9 b Var	4an = 0.46a1 ab
an Env ₁₃₋₀₃₋₂₀₂₁	viro La22.7ardan	Envir (39.4) Vard	an Env5t7 Lab V	ırdan 13.7iroLab	Vard 0.55 nvire
20-03-2021	34.2	34.7	nviroLab Varda	16.8	0.57
n Envir22-03-2021an Env	roLab 23.4dan Er	virol 43.7/arda	Envir5.7ab Var	dan Er15.2oLab V	ardan0.43viroL
27-03-2021	Varda22.71viroL	ib Var46.8 Envi	oLab \6,2 dan E	ivirol 18.9 ardan	Enviro.57b Vai
an Fm 30-03-2021	25.1	34.4	an Env5.6 Lab V	15.6 rolar	0.53
nviroLab Max.dan Enviro	Lab V-49.7n Env	roLab73.8 dan I	nvirol8.9 Varda	n Envila.9ab Var	dan E0.68oLah
Lab Vardan EnviroLab V	22.6	34.4	Lab Vasdan Env	roLab Vardan E	0.43
n EnviroLab Vardan Env roLab Vardve EnviroLab	Vard 34.00	Va52.54 Envi	roLab 6.64 ian E	virol 14.75	Envir0.56
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Note: - "NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001

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lan EnSampling dates an EnviroLab Vardan EnviroLa	Va (μg/m³) ν πο	ab (μg/m³) Επν	rol (μg/m³) = E	wire(μg/m³) rdar	Emv(mg/m³) Vard
Environ4-01-2021 Environ	bLab V32.6an Env	riro La 66.2 rdan	nvirol6.9 Varda	n Envi <u>12.5</u> ab Var	dan E0.540Lab
05-01-2021 Environment	31.7	63.7	nviro 6.1 varda	14.6 ab Va	dan E0.62 oLab
Lab V11-01-2021/iroLab	lardar36.9 viro La	b Var.68.6 Enviro	Lab Va5.4an Env	iroLal17.5rdan E	nvirol0.61Varda
12-01-2021	35.4	69.7	n Enviros ab Var	dan EnzisoLab V	FoviroLab Var
Enviro18-01-2021 n Envir	oLab (35.9an En	iroLa 68.9 rdan 1	nviro16.7 Varda	n Envi18.6ab Var	dan E 0.56 o Lab
19-01-2021	nvirol 37.3 ardar	Envi 54.2 b Vari	lan En 5.20Lab V	ardan 16.4 iroLal	Vard 0.59 nviro
olab \25-01-2021	39.1	63.8	Lab Va gan Env	iroLal 15.6 rdan E	nviro 0.62 Varda
an Env27-01-2021 dan Em	froLal39.4 rdan l	nviro 64.6 Varda	n Envi 6.8 ab Var	dan E:17l5oLab \	/ardar0.53viroLa
08-02-2021	31.7	52.8	7.9 Varda	n Environah Var	0.57 O.57
dan Er09-02-2021/ardan E	nviroL33.8/ardar	Envil63.9 b Vari	ian En 6.60 Lab V	ardan 12:9 iroLal	Vard 0:66 nviro
15-02-2021	34.6 an En	viroLa _{62.1} ardan	Enviro 6.97 Varda	n Env _{17.6} ab Va	clan E _{0.67} oLab
n Env 16-02-2021 dan Env	27.8	59.2	n Envii ⁵ 0Lab Var	dan E 16.2 oLab	ardar 0.59 viroLa
iroLal 22-02-2021 nviroLa	Vard25.4 nviro	Lab V-51.8n Env	roLab 6,8rdan E	nviroL12.7/ardar	Enviro.63 b Var
23-02-2021	31.6	48.1	6.4	14.8	0.59
Envir@5-02-2021an Envir	oLab \38.1an En	viroLa52.1ardan	Enviro 5.35 Varda	in Env 13.2 ab Va	dan E0.62 oLab
26-02-2021	/ardar39.2 virol-a	49.4	Lab V 6.3 an Env	iroLal _{19.7} rdan l	nviro 0.57 Varda
roLa 06-03-2021 nviro La	32.4	58.3	roLab 6.9rdan E	16.8 ardal	Envir0.55 b Var
08-03-2021 Envir	oLab V23.7an Em	ricoLa 46.1rdan	nvirol5:4 Varda	n Envi15.9ab Va	dan E0.53 o Lab
13-03-2021	28.4	49.9	6.8	16.4	0.42
oLab \20-03-2021/iroLab	/ardar29.8 viroLa	b Var 40.2 Enviro	Lab Va6.3 an Em	iroLal16.8rdan I	nviro 0.58 Varda
22-03-2021	35.6 dan	nviro 43.7 Varda	n Environab Var	dan E14.70Lab	ardaro.61
Envirc27-03-2021an Envir	plab (38.2 an Em	roLa 49.2 rdan	Enviro 6.9 Varda	n Envil7.2ab Va	dan E0.53 oLab
30-03-2021 ardan E	nvirol36.7/ardai	Envii63.8 b Var	dan En sigoLab V	ardan 17.2 irota	o Vardo.53 nviro
Lah Var Max Envirol ab	39.4	69.7	Lab V7.9 an Env	19.7	0.67
n Enviromin Vardan En	virol.a23/7rdan	nviro40.2 Varda	n Envi 5:1 ab Va	dan E12.5oLab	/ardar0.42viroLa
iroLab Vardan EnviroLa EnviroLa <mark>Avg</mark> erdan Envir	33.54	56.81	6.24 vard	15.76	dan E0.57 oLab
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Note: - ®NAAO Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 principal Vardan Enviro Lab Vardan Enviro

Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Test Report ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroProject Name EnviroLab Vardar, Environ/s Adani Power (Mundra) Limited EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan EnviroLab Vardan Eljitpur Open Cast Coal Mine (2.5 MTPA) an EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroTehsil-Sunderpahari, District-Godda Jharkhand b Vardan EnviroLab Vardan En nviroLab VSample NoviroLab Vardan EnviroLab WEL/APL/M/05 Lab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan Envirence Nordan EnviroLab Vardan EnvVEL/A/ 2101/01-03 viroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Reporting Date o Lab Vardan EnviroLato5/04/2021 viroLab Vardan EnviroLab Vardan E dan Enviro Testing Protocol/Method Vardar: EnviroAs per CPCB/SPCB/MoEF & CC/IS-5182 WiroLah Vardan EnviroLab Vardan Em Vardan E Name of Monitoring Location b V: dan E BATHI TOLA (Core Zone) OLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En

Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	As (ng/m³)	Cd (μg/m³)	(ng/m ³	Pb (μg/m³)
07-01-2021	21.6	E 55.70L	5 V 6.2 lan	15.2	0.64	BDL	BDL	BDLab	VaBDL ₁ E	BDL	BDL
14-01-2021	0 22.1 a	56.6	b V5.91an	20.1	0.54	BDL	BDL	BDL	V_BDL	BDL	BDL
21-01-2021	24.5	58.5	8.5	18.9	0.55	BDL	BDL	BDL	ab BDL	BDL	BDL
Max. ola	24.5	58.5	8.5	20.1	0.64	BDL	BDL	BDL	BDL	BDL	BDL
ardan Envi	21.6	55.7 V	oL5.9Var	15.2	0.54	BDL	ol BDL are	BDL	La BDL rd	BDL	BDL
iro Avg. Var	22.86	roL 57 Var	dan Z nvir	17.9	0.582	BDL	a BDL	LaBDLrd	BDLro	BDL	BDL
NAAQS@	60 En	100	80	80	rdan Env	roLab Va	rdan 20 rda	roLab Va	dan Envir	oLab Va	rdan En

d Note: - "NAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009. nviroLab Vardan Em

Vardar BDL-Below Detection Limit, n EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Em Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab nviroLAMATABHEDU8EY Vardan EnviroLab Vardan Env rdan EnviroLab Vag ardan Englanda Angert EnviroLab Vardan E (Approved By) Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLa

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Test Report

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Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ng/m³)	As (ng/m³)	Cd (µg/m³)	Hg (ng/m³	РЬ (µg/m³)
07-01-2021	23.5 ^V	58.2	6.5 ^{Var}	17.5	0.52	BDL	oLBDLard	anBDLire	BDL	BDL	BDL
14-01-2021	a126.21VI	ol 62.3/ar	lan 6.9 vir	18.6	0.59	BDL	anBDLiro	La BDLrd:	n BDL o	BDL	BDL
21-01-2021	rd28.6	67.6 V	rd 6.7=nv	ro 12.4 Va	0.58	BDL	BDL	BDL/ar	BDLvi	o LBDL/ai	BDL
n EnviroLa ardMax.nvi	28.6/	67.6	6.9	18.6	0.59	BDL	oL BDL	BDL	BDL	BDL	BDL
in EnviroLa	23.5	58.2	6.5	12,4	0.52	BDL	BDL	BDL	BDL	BDL	BDL
Avg.	26.08	62.78	6.7	15.90	0.56	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	v60 ar	E 100 L	5 V 80 an	Env80 Lab	Var 4 lan I	nviroLa	va20an i	nvir 6 Lab	Vardan E	nvir o Lab	Vardar

Note: - WAAQ Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009. dan Enubba Below Detection Limita viro Lab Vardan Enviro Lab Varda

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Ph: 0124-4343750/752/753 9810355569 9953147268 F-mail: lab@vardanenvironet.com. bd@vardanenvironet.com



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Name of Monitoring Location

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M/s Adani Power (Mundra) Limited EnviroLab Vardan EnviroLab Vardan En ab Vardan EnviroLab Vardan EnviroLa Jitpur Open Cast Coal Mine (2.5 MTPA) Tehsil-Sunderpahari, District-Godda Jharkhand. VEL/APL/M/07 iroLab Vardan EnviroLab Vardan EnviroLab Vardan Em VEL/A/ 2101/07-09 Enviro Lab Vardan Enviro Lab Vardan Enviro Lab Vardar 05/04/2021 As per CPCB/SPCB/MoEF&CC/IS-5182

Sampling Dates	PM 2.5 (μg/m³)	- PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	Ni (ug/m³)	As (ng/m³)	Cd (μg/m³)	Hg (ng/m ³	Pb (μg/m³)
06-01-2021	25.6	56.5	7.6	14.7	0.57	BDL	BDL	BDL	BDL	BDL	BDL
13-01-2021	24.2	54.5	6.1	13.6	0.51	BDL	al BDL da	n EBDLoL	ib BDLdar dan Envir	EBDLoL	BDL
28-01-2021	26.7	E 59.6	6.8	11.8	V 0.54	BDL	VBDL n	nvBDLab	VaBDL E	wBDLab	BDL
an EMax. o La	b 26.7lar	59.6	b V7.6ian	En14.7La	√0.57 n	BDL	y BDL	n\BDL ab	V BDL	BDL	\BDL
riroLab Vari	24.2	54.5	6.1	11.8	0.51	BDL	BDL	BDL	BDL	BDL	BDL
nviroLab V	25.48	56.94	6.84	13.32	0.54	BDL	BDL	BDL	BDL	BDL	BDL
NAAQS@	oL60 Va	rda100nvi	roL 80 Var	dan80 vir	phal4Var	lan E nvir	oLa20Var	lan i6nviro	Lab-Vard	ın Envir	oLati Va

Note: - NAAO Standards - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

nviro Lagol-Below Detection Limit ab Vardan Enviro Lab Vardan Envi EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan Enximina Brigotab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan Env in EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

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Sampling Dates	PM 2.5 (μg/m³)	PM10 (μg/m³)	SO2 (μg/m³)	NO2 (μg/m³)	CO (mg/m³)	Cr (μg/m³)	(ng/m³)	(ng/m³)	Cd (μg/m³)	Hg (ng/m ³	Pb (μg/m³)
06-01-2021	28.7	E 60.20L	b V8.5dan	16.9	V 0.65	BDL	BDL	BDL	V-BDL	BDL	BDL
13-01-2021	27.2	lan 58.7/jro	7.6d	17.5	a 0.52 da	BDL	BDL	BDL	BDL	BDL	BDL
28-01-2021	29.5	69.2	6.8lan	15.6	V 0.56	BDL	BDL	BDL	BDL	BDL	BDL
Max.	29.5	69.2	8.5	17.5	0.65	BDL	BDL	BDL	BDL	BDL	BDL
iromin. Var	27.2V	rol58.7/a	da 6.8 vir	15.6	0.52	BDL	BDL	LaBDL	an BDLiro	a BDL-d	BDL
nvirAvgab V	28.42	vir 63.2	7.64	16.62	0.58	BDLV	rd BDLnv	ro BDL/a	daBDLvi	olBDL/a	BDL
NAAQS@	60	100	80	80	glab Var	an Envir	20 Var	dan Enviro	Vardan E Lab Vard	an Envir	varga bLab V

Note: - PNAAQ Standards: National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)] 18.11.2009.

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oLab Vardan EnviroLa Con Rock EnviroLab Vardan Envir (Checked By) Vardan Enviro nyiroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Var EnviroLab Vardan EnviroLab dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan Enviro

Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 pviroLab Vardan EnviroLab Vardan Enviro

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EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Envirolation Tehsil-Sunder pahari, District-Godda dan EnviroLab Vardan Enviro

Sample No.: Report No.: VEL/APL/AN/01-06 Report No.: ard Project Name: Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol at Reporting Date: OLab Voltage Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s Adani Power (Mundra) Limited Envirol Adaptive Vardan Env M/s
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Vi roLab Vardan EnviroLab EnviroLab Vardan Enviro	Vardan EnviroLab Vard Lab Vardan EnviroLab V	ardan EnviroLab V Noise	Level in dB(A) rdan EnviroLab Vardan
Location Environ	Date of Monitoring	(6:00 am to 10:00 pm)	dan Enviro Night Time Enviro Lab Va Envi (10:00 pm to 06:00 am) b Valda
roLab Vardan EnviroLab V	ardan EnviroLab Varda	Minimum-Maximum	OLab Minimum-Maximum Can L
CORE ZONE AREA (BATHI TOLA)	Vard 04/01/2021 Vard blab Vardan EnviroLab	an Envir44,2452,3rdan Env ardan EnviroLab Vardan	riroLab Vardan EnviroLab Vardar En EnviroLab Vardan EnviroLab Vardar
rdan Village-DAHUBERA E n EnviroLab Vardan Envir	10/01/2021	ab Vardan EnviroLab Var Vardan E45.7 - 59.1, Vardan	EnviroLab Vardan Enviro
Village-GAMARO	rola 16/01/2021	TENVIROLAD Vardan Envir Varda 47.2 = 57.5 ab Vard	oLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Er
Village-JITPUR Envir	21/01/2021 Lab	ardan E 43.2– 56.6 Vardan ab vard	EnviroLab Vardan Vardan EnviroLab Vardan Va
Village-PAHARPUR	ardar 24/01/2021 vardar	rardan EnviroLab vardar Envirol44.7 -57.11an Envir	oLab Vardar 8.5 ab Vardan Envirol ab Vardan Envirol
o Village-JIYAJORI ro Lai	29/01/2021	an Envir46.9-59.3 dan Env Jardan Envirol ab Vardan	iroLab Varda9.4Er48.7oLab Vardan Er EnviroLab Vardan EnviroLab Var
CPCB Limits in dB(A*) Leq (Residential Area)	nviroLab Vardan Envirol oLab Vardan EnviroLab '	ab Vardan EnviroLab Vardan En 55.00 ab Vardar	dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env

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Note: Mine development is not started (Mine is not operational). To Lab Vardan EnviroLab Vardan Enviro

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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 NOTE |

Test Report

V Sample Number: ab Vardan Envir

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dan EnviroLab Vardan EnviroLab Vardan EnviroLab

Sample Description:

VEL/APL/W/01 EnviroLab Vardan EnviroLab VaJharkhandiroLab Vardan EnviroLab

GROUND WATER Sample Location: Vardan Envirol Village-BATHI TOLA

Report No.: ardan Envir VEL/W/2101/20/001 Name & Address of the Party: Irola M/s Adani Power (Mundra) Limited Twing Format No.: n Envirola 7.8 F-01 n Envirolab Vardan nviroLab Vardan EnviroLab Var Jitpur Open Cast Coal (2.5 MTPA) Lab V Party Reference No.: VardNILEnviroLab Vardan Er ardan EnviroLab Vardan Enviro Tehsil-Sunder pahari, District-Godda, nyi Reporting Date: Enviro 24/01/2021 Enviro Lab Vardan I Period of Analysis: 20/01/2021 to 24/01/2021 20/01/2021 dan EnviroLab Vardai Receipt Date: Sampling Date: 18/01/2021 Sample Collected by: WiroLab Var Vardan EnviroLab Representative OLab V Sampling Quantity: Var 2.0 Ltr + 200 ml Vardan EnviroLa ar Parameter Required: ardan EnvirolAs per Work Order rolah Vardan Envirolam Type: Envirol Grab'ardan Envirolab Vardan I Sampling and Analysis Protocol: b ValS-3025, APIIA Lab Vardan EnviroLab Preservation: inoLab Val Refrigerated Lab Vardan Enviro

ardan an Envi S. No. L dan Er nviroL	EnviroLab Vardan EnviroL roLab Vardan EnviroL VardaParameterLab Va iviroLab Vardan Envir ab Vardan EnviroLab V	iroLab Vardan EnviroLab	oLab Vardan Enviro b Vardan EnviroLab lan Env Resultb Varda Lab Vardan EnviroLa rdan EnviroLab Vari	.ab Vard Vardan I n EUnitro b Varda lan Envi	Limits of IS:10500 - 2012 RA-2018 Permissible limit in the Absence of Alternate Source
n Envi	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	ol ab Vardan Enviro	/ardan i ab Vard	No Relaxation
n2:nv	Colour Vardan Envirol	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	EnviroLal5 Vardan
irgitat	Turbidity Turbidity	APHA, 2130 B, Nephlelometric Method	30 − 1 × 1 < 5.0	NTU	Lab Vardan Envir
v4roL	Odour dan EnviroLab \	APHA, 2150 B, Threshold OdourMethod	rdan EAgreeable b Vard	lan E nvi	oLa Agreeable Env
n Envi	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	Zardan (ab Varo	Agrecable
n6.nv	Total Hardness as CaCO ₃	ab APHA, 2340 C, EDTA Titrimetric Method	b Varda169.00viroLab	√a mg/l⊓	EnviroL600Vardan
irqtat	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	58.74	mg/l	200
1v8roL	Alkalinity as CaCO ₃	arda APHA, 2320 B, Titrimetric Method	rdan E153.16Lab Vari	a mg/l v	roLab V600lan Env
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	43.24	mg/l	1000
10,7V	Residual Free Chlorine	ab VaAPHA, 3500 Cl B lodometric Method OLa	*BDL(**DL 0.02 mg/l)	Vardan	inviroLab Vardar
dan Er	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
1V120L	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	rdan En 5,45 Lab Vari	a mg/lV	roLab Viocian Env
ar 13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	oLab V-305.00 Enviro	mg/l	an Env2000 ab Va
14.1V	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	b vardal 8.03 viroLab	mg/l	nviroL400 vardar
d 15. E	Fluoride as F	APHA, 4500-F- D, SPADNS Method	ab Varc0.29EnviroLa	_ mg/l _	n Envirol Sab Vard
1V16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	8.52	mg/l	No Relaxation
arl7an	Iron as Feab Vardan Env	APHA, 3500-Fe B 1,10 Phenanthroline Method	oLab Va0d4n Enviro	mg/l =	an No relaxation
iroLat	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Lab Vardan Envi
19. El	Boron dan Envirolab	APHA, 4500B C, Carmine Method	rdan Envirolab Var	mg/l	roLab Vardan En
n 20avî ardan	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	nv No Relaxation an an EnviroLab Va





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Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan

EnviroLab Vardan EnviroLab Vardan EnviroL



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Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 principal Varian Enviro Lab Varian Enviro

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Sample No.: VEL/APL/W/01	enviroLab Vardan EnviroLab Vardan	EnviroLab Vardan E	Repo	ort No: VEL/W/2101/20//001
S. No Parameter Vardan EnviroLa Vardan EnviroL	Test-Method Varian EnviroLab Vardan Env	Result Re	ab Vardar rotab Var Envirotai ro Unit var vardan E wirotab Vardan E	Limits of Adams IS:10500-2012 RA-2018 Permissible limit in the Absence of Alternate Absence of Alternate Adams Source
22. Electrical Conductivity	grot als Vardao Envirol als Vardan En	viroLab Vardan Env n Enviro 485 Vardan	μS/cm	dan EnviroLab Vardan Vardan En v iroLab Var
23. **Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l ^{Val} Vardan E	dan EnviroLob Vardar nviroLab Vardan Envir
Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	EnviroL 0.28'ardan E Lab Vardan EnviroL	ab Vardar	ardan EnviroLab Vard EnviroLab Vardan En
25. Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	viroLab 0.08dan Env n EnviroLab Vardan	ıng/l	dan EnviroLab Vardar Vardan EnviroLab Va
26. Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l var Vardan E	dan Enviro.36 yardan nviroLab Vardan Envi
27. Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28. Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation
29. Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30. Arsenic as Asardan	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l-h	ardan Env0.05Lab Varo
31. Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
a 32an Total Coliform/arda	Envir 1S 1622:2009 : 1987, RA:2019 Varda GroLab Vardan EnviroLab Vardan Er	n Envirol<2b Vardan viroLab Vardan Env	MPN/100ml	Shall not be detectable in an
ii33.a E. Colian EnviroLa	IS 1622:2009 : 1987, RA:2019	ab VardAbsentiviroLal EnviroLab Vardan E	MPN/100ml	Shall not be detectable in an 100 ml sample

Note: -"These parameter are not covered in our NABL scope. dan En*BDL-Below Detection Limit, **DL- Detection Limit Lab Vardan Enviro Lab Vardan Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

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En MANTA NAYA OLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

Gested By Checked By EnviroLab Vardan EnviroLab Varda dan EnviroLab Vardan EnviroL nviroLab Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Varda ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroL EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Varda dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nyiroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E Enviro Lab Vardan Enviro Lab V

ph: 0124-4242750/752/753 9810355569 9953147268 F-mail: lab@yardanenyironet.com bd@yardanenyironet.com



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Sample Number: Vardan EnviroL Name & Address of the Party:

ardan EnviroLab Vardan Envir

EnviroLab Vardan EnviroLab

Sample Description: Sample Location: Sample Collected by: Parameter Required: Envirolab V VEL/APL/W/02

M/s Adani Power (Mundra) Limited Jitpur Open Cast Coal (2.5 MTPA) Tehsil- Sunder pahari, District-Godda, Jharkhand EnviroLab Vardan Env

GROUND WATER Village-JETKA TOLA VardanEnviroLab Representative As per Work Order Vandan Envirolab da Sampling and Analysis Protocol: oLallS-3025, APHAviroLab Vardan Envirol Preservation: EnviroLa Refrigerated aviroLab Vardan Em

Report No.: Frying VEL/W/2101/20/002 Format No.: Folap Vardan Party Reference No.: view NIL Vandan Envirollab Van 24/01/2021 iroLab Vardan Env Reporting Date: Olab Va 20/01/2021 to 24/01/2021 Period of Analysis: 20/01/2021 dan EnviroLab Vai Receipt Date: Sampling Date: 18/01/2021 Sampling Quantity: 2.0 Ltr + 200 ml

Sampling Type: oLab Va Grab EnviroLab Vardan Enviro

S. No.	roLab Vardan EnviroL Vardan EnviroLab Va viroLaParameten Envir ab Vardan EnviroLab V	ab Vardan EnviroLab Vardan EnviroLa rdan EnviroLab Vardan EnviroLab Vard oLab Vardan ETest-Method/ardan Enviro /ardan EnviroLab Vardan EnviroLab Va ab Vardan EnviroLab Vardan EnviroLa	b Vardan EnviroLab lan EnviroLab Varda Lab Var Result nviroLa Irdan EnviroLab Vari D Vardan EnviroLab	Vardan n Enviro b Vinitia dan Envi Vardan I	Limits of IS:10500 - 2012 RA-2018 Permissible limit in the Absence of Alternate Source
/ardan	pH (at 25 °C) Vardan Em	APHA ,4500-H ⁺ B Electrometric Method	oLab Vai7.62n Enviro	Lab Varo	No Relaxation
an Env vir2.Lat	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	Lab Varlan Envir
rdan Er	Turbidity Vargan Envir	APHA, 2130 B, Nephlelometric Method	ab Varda0.5 nviroLa	NTU	n Envirogab Varda
an 4:nvi	Odour Vardan EnviroL	APHA, 2150 B, Threshold OdourMethod	Agreeable	Vardan I	Agreeable
arsian	Taste OLab Vardan Env	APHA, 2160 B, Threshold Test Method	Agreeable	Lab Vari	Agreeable
vir6.Lab	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	ian Env182.00b Varda	mg/l	Lab Val600n Envir
rdan Er	Çalcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	55.98	mg/l	200
n 8.nvi	Alkalinity as CaCO ₃	ab Va APHA, 2320 B, Titrimetric Method IroLa	Varda 161.34 iro Lab	/a mg/l	nviroL600/ardan
arglan	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	46.22	mg/l	1000
vir10.ab	Residual Free Chlorine	rdan APHA, 3500 Cl B Iodometric Method Var	*BDL(**DL 0.02 mg/l)	mg/l	Lab Vardan Envir
nyirot	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
10 12.1VI	Magnesium as MgOL	APHA, 3500 Mg B, Calculation Method	o Vardar _{10.28} viroLab	/a mg/l	nviroL 100/ardan
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	h Varda320.00/roLab	mg/l	2000
virq4.ab	Sulphate as SO ₄ FOLab Va	APHA, 4500 E, Turbidimetric Method	ian Envi ₇ 9 ₅ ab Varda	mg/l	Lab Var400n Envir
15.	Fluoride as F	APHA, 4500-F- D, SPADNS Method	ırdan En 0.34 Lab Var	mg/l	roLab Va.5dan Env
16.V	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	Vardan _{6.83} ViroLab	mg/l	No Relaxation
an 17nv	Iron as Fe and Envirol	APHA, 3500-Fe B 1,10 Phenanthroline Method	b Vardar0.19\viroLab	va mg/l	No relaxation
vir ₁₈ .at rdan Ei	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	n Envirolab Vard
nv ₁₉ oL	Boron I dan EnviroLab	APHA, 4500B C, Carmine Method	ngan Envirolab 2 Vardan Envirolab	mg/l	rocab vardan En Envirol ab Vardan
/ar20an an Env	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation





(Approved By)

Note: Terms & conditions refer on backside of test report.

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Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Test Report Lab Vardan EnviroLab Vardan

Sample No.: VEL/APL/W/02	EnviroLab Vardan EnviroLab Vardan Lab Vardan EnviroLab Vardan Enviro	EnviroLab Vardan E Lab Vardan EnviroL	Repo	ort No: VEL/W/2101/20/002
Vardan EnviroLab Vardan En Vardan EnviroLab Vardan dan EnviroLab Vardan En S. No. b vardan EnviroL	viroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroL	viroLab Vardan Env n EnviroLab Vardan wiroLab Vardan Env Result ab Vardan EnviroLai	roLab Vard EnviroLab IroLab Vari O Vardan Er	Limits of By Ardan E Is:10500-2012 RA-2018 F Permissible limit in the
ardan EnviroLab Vardan EnviroLab Vardan Enviro	EnviroLab Vardan EnviroLab Vardan Lab Vardan EnviroLab Vardan Enviro	EnviroLab Vardan E Lab Vardan EnviroL	ab Vardan	Absence of Alternate
21. Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l) 510	mg/l μS/cm	lan Envir 0.002 Vardan E Vardan EnviroLab Vard
22. Electrical Conductivity23. "Anionic Detergents as MBAS	APHA, 2510 B, Conductivity Meter Method APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	μα/cill Vemg/I	dan EnviroLab Vardan E iviroLab Vardan Enviro ardan EnviroLab Vardar
Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	Lab Var 0.21 Envirol viroLab Vardan Env	ab mg/pan roLab Vard	EnviroLab Yardan Envi Ian EnviroLab Vardan E
25. Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	n Enviro <u>0.10</u> , Vardan IviroLab Vardan Env	iroLab Var	Vardan EnyigoLab yard dan EnviroLab Vardan I
26. Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	o Vanig/In ta nviroLab V	iviroLab Vagatan Enviro irdan EnviroLab Vardai
27. Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	No Relaxation
28. Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l	No Relaxation
29. Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
E 30. O Arsenic as As Enviro	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	ab mg/l an	EnviroLab 0.05 dan Envi
31. Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
da 32En Total Coliformdan Er nyiro Lab Vardan EnviroL	IS 1622:2009 : 1987, RA:2019 dan E	iviroLab ¥2rdan Env ab Vardan EnviroLa	MPN/100ml	Shall not be detectable in any 100 ml sample
ar 33.n E. Coli Lab Vardan EnviroLab Vardan Enviro	IS 1622:2009 : 1987, RA:2019 and an	Enviro Absentırdan E Lab Vardan Envirol	MPN/100ml	Shall not be detectable in any 100 ml sample

Note: "These parameter are not covered in our NABL scope." Lab Vardan EnviroLab Vardan Envi

dan En ARJUN RA EnviroLab (Checked By) (ardan EnviroLab Vardar (Approved By) ardan EnviroLab Vardan Envi EnviroLab Vardan EnviroLal Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Vard dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab V Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan nyiroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Em Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan www.vardan.co.in

Ph. 0124-4343750/752/753, 9810355569, 9953147268 F-mail: lab@vardanenvironet.com, bd@vardanenvironet.com



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Test Report dan EnviroLab Vardan EnviroLab Vardan EnviroLab

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dan EnviroLab Vardan EnviroLal harkhand EnviroLab Vardan Enviro Sample Description: dan EnviroLa

nvName & Address of the Party: Var M/s Adani Power (Mundra) Limited Lab Varonat No.: roLab Vard7.8 F-01 iroLab Vardan EnviroLa ardan EnviroLab Vardan Enviro Jitpur Open Cast Coal (2.5 MTPA) in EnviroLab Vardan EnviroLab Vardan E EnviroLab Vardan EnviroLab VaTehsil-Sunder pahari, District-Godda, Lab Reporting Date: OLab Va 24/01/2021 iroLab Vardan Enviro

GROUND WATER Sample Location: EnviroLab Var Village-RAMPUR/ardan EnviroLab V Sample Collected by: and an Enviro Vardan Enviro Lab Representative an Environment Sampling Quantity: viro 2.0 Ltr + 200 ml viro Lab Vardan I E Parameter Required: EnviroLab VaAs per Work Order Vardan EnviroLab Sampling Type: oLab Va Grab EnviroLab Vardan Enviro da Sampling and Analysis Protocol: OLalIS-3025, APHAVIroLab Vardan Envirol Preservation: EnviroLa Refrigerated InviroLab Vardan Em

Period of Analysis:

Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardai Sample Number: /ardan EnviroLa VEL/APL/W/03 iroLab Vardan Enviro Report No.: n EnviroLa VEL/W/2101/20/003 ab Vardan En 20/01/2021 to 24/01/2021 Receipt Date: 20/01/2021 Sampling Date: Lab Vard18/01/2021 OLab Vardan EnviroLa

oLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro

n Envi	roLab Vardan EnviroL Vardan EnviroLab Va	ab Vardan EnviroLab Vardan EnviroLa dan EnviroLab Vardan EnviroLab Vard	g Vardan EnviroLab Ian EnviroLab Varda	Vardan I n Enviro	Limits of IS:10500 - 2012 RA-2018
S. No.Er iviroL n Envi	iviroLaParameter: Envir ab Vardan EnviroLab V roLab Vardan EnviroL	bLab Vardan ETest-Method/ardan Enviro Yardan EnviroLab Vardan EnviroLab Va ab Vardan EnviroLab Vardan EnviroLa	ab Var Result nviroLa rdan EnviroLab Vard o Vardan EnviroLab	6 Wnitia Ian Envi /ardan I	Permissible limit in the Absence of Alternate Source
rgan	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	oLab Val7.49 Enviro	Jab Vard Vardan	No Relaxation
r2Lab	Colouran EnviroLab Va	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	Lab Vard5ın Envi
lan Er	Turbidity	APHA, 2130 B, Nephlelometric Method	ab Vardaz EnviroLa rdan EnviroLab Vard	NTU	n Envirolsab Vard roLab Vardan En
4.nví	Odour Vardan EnviroL	APHA, 2150 B, Threshold OdourMethod	Vard Agreeable oLab	Varden I	nvir Agreeable dat
5.	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	Vardan	Agreeable
r6Lat	Total Hardness as CaCO ₃	d APHA, 2340 C, EDTA Titrimetric Method are	lan Envi _{132.00} b Varda	mg/l	Lab Vai600n Env
VICOL	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	rdan En41.38Lab Vari	mg/l	roLab (200 an E
8,nvi	Alkalinity as CaCO ₃	Va APHA, 2320 B, Titrimetric Method	Varda 142.16 iroLab	mg/l	nvirol 600 arda
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	b Varda 33.81 viro Lab	√ _a mg/l	nviroL1000/arda
10.1	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method Van	*BDL(**DL 0.02 mg/l)	mg/l	Lab Vardan Env
viroL	"Cyanide as CN	ardan EnviraPHA, 4500 CN- DiviroLab Va	*BDL(**DL 0.05 mg/l)	armg/l _V	No Relaxation
12.7V	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	6.99	mg/l	InviroLation and V
13-14	Total Dissolved Solids	ab Va APHA, 2540 C, Gravimetric Method Vol.	o Varda295.00/IroLab	√a mg/l	nviroL2000/arda
14.4	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	7.43	mg/l	400
v15oL	Fluoride as F Enviro Lab	arda APHA , 4500-F- D, SPADNS Method b Va	rdan Emolss Lab Vari	larmg/l v	roLab VII.5dan E
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	olab Va 5.63 n Enviro	mg/l	No Relaxation
17กุง	Iron as Feardan Envirol	APHA, 3500-Fe B 1,10 Phenanthroline Method	p Vardaro.19 viroLab	Va mg/ln	No relaxation
18. an Ei	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	n EnviroLab Var
19.	Boron Vardan Envirol	APHA, 4500B C, Carmine Method	vardan ^{0.25} Vardan	mg/l	EnviroLab Varda
20.1	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/1	lan No Relaxation



nviroLab Vardan EnviroLab Vardan



(Approved By) PRATAP SINC Departer

ardan EnviroLi

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Note: Terms & conditions refer on backside of test report. Vardan Enviro Lab Vardan Enviro Lab Vardan

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Vardan EnviroLab Vardan

Sample	No.: VEL/APL/W/03	roLab Vardan EnviroLab Vardan Env	iroLab Vardan Envir	oLab VaRe	port No: VEL/W/2101/20/003
dan Er Ny rol S. No ardan	vardan EnviroLab viroLab Vardan En ib Vardan EnviroL oLab Parameter Envi EnviroLab Vardan rol ab Vardan Envi	vardan EnviroLab vardan EnviroLab viroLab Vardan EnviroLab Vardan EnviroLab vardan EnviroLab Vardan EnviroLab vardan Test-Methoda vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab	nviroLab Vardan EnviroLab Jab Vardan EnviroLa JoLah Result n Envir EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro	AroLab Va b Vardan I b LaUnitard nviroLab oLab Vard	Limits of IS:10500-2012 RA-2018 Permissible limit in the Absence of Alternate Source
ird1ab	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	Varmg/l En	viroLab V 0.0021 Envirol
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	ab Varda467EnviroLa	μS/cm	nviroLab Vardan Envir
n 23.vi ardan	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	nviro_ab	an EnviroLal _o vardan Er /ardan EnviroLab Varda
in 24.vi	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	Vardan EnviroLab	o Lang/land Vardan En	viroLab Vardan Envirol
da25.Er nviroL	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	* BDL(**DL 0.03 mg/l)	mg/l	rdan Envirolab Vardar InviroLab Vardan Envir
ardan	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	Vardan EnviroLab Vard
iroLat	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	oLamg/l art Vardan Er	No Relaxation
da ₂₈ .Ei	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l Va dan	No Relaxation
□ 29.VI	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	No Relaxation
30.	Arsenic as As an Env	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	oLmg/larc	an Envirol0.05 Vardan E
31.21	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	No Relaxation
nv32oL	Total Coliform	IS 1622:2009 : 1987, RA:2019	ab Varda<2 EnviroLa IroLab Vardan Envir	MPN/100ml	Shall not be detectable in any
ar33:n	E. Colb Lab Vardan	IS 1622:2009 : 1987, RA:2019	Enviro Absentardan I iro Lab Vardan Envi	MPN/100ml	Shall not be detectable in any

nvNote: a These parameter are not covered in our NABL scope, and an EnviroLab Vardan Enviro

Var MAMTA INAYAKA EnviroLab Vardan EnviroLab Var EnviroLab Vardan EnviroLa

dan EnviroLab Vardan En

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan www.vardan.co.in



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 NICLES

Test Report

dan EnviroLab Vardan EnviroLal Sample Number: ab Vardan Envir VEL/APL/W/04 da Name & Address of the Party: Irola M/s Adani Power (Mundra) Limited Hviro Format No.: Enviro Lab 7.8 F-01:n Enviro Lab Vardan En nviroLab Vardan EnviroLab VardJitpur Open Cast Coal (2.5 MTPA) ardan EnviroLab Vardan Enviro Tehsil-Sunder pahari, District-Godda, nv EnviroLab Vardan EnviroLab Va Jharkhand iroLab Vardan EnviroLab

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

GROUND WATER Village- KEROJORI BARA Nample Collected by: Vardan Vardan Enviro Lab Representative of ab

Report No.:ardan Envir VEL/W/2101/20/004 molab Vardan aParty Reference No.: Vard NIL Enviro Lab Vardan Enviro La Reporting Date: Enviro 24/01/2021 Enviro Lab Vardan I Period of Analysis: 20/01/2021 to 24/01/2021 20/01/2021 dan EnviroLab Vardar Receipt Date: Sampling Date: 18/01/2021 EnviroLab Vardan En Sampling Quantity: Vard 2.0 Ltr + 200 ml Vardan EnviroLa ar Parameter Required: rdan EnvirolAs per Work Order to Lab Vardan Envir Sampling Type: Envirol Grab ardan Envirolab Vardan I Sampling and Analysis Protocol: ValS-3025, APHALab Vardan EnviroLab Preservation: IroLab Vatefrigerated roLab Vardan Enviro

Vardan EnviroLab Vardan EnviroLab Vardan Enviro

n EnviroLab Vardan EnviroLab Vardan Env

n Envi S. No. b Ian En viro La	EnviroLab Vardan Env roLab Vardan EnviroL Varda Parameter ab Var viroLab Vardan Enviro Ib Vardan EnviroLab V	roLab Vardan EnviroLab Vardan EnviroLab bb Vardan EnviroLab Vardan EnviroLa dan EnviroLa Test-Method nviroLab Vard bLab Vardan EnviroLab Vardan Enviro ardan EnviroLab Vardan EnviroLab Va	oLab Vardan Enviro o Vardan EnviroLab Ian Env Result o Varda Lab Vardan EnviroLa rdan EnviroLab Vard	lab Vard Vardan I n EUnitro b Varda lan Envi	Limits of IS:10500 2012 RA-2018 Permissible limit in the Absence of Alternate Source
ı Içnvii rdən	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	ol ab Vardan Enviro	/ardan t	No Relaxation
2.nvi	Colour Vardan EnviroL	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	nviroLal5 Varda
rgLab	Turbidity Environal Va	APHA, 2130 B, Nephlelometric Method	ian Envirole	NTU	Lab Vardan Envi
v4:oL	Odour dan EnviroLab \	APHA, 2150 B . Threshold OdourMethod	rdan EAgreeable Vari	lan Envi	oLal Agreeable
5.	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	fardan l	Agreeable
6.nvi	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	o Varda 187.00 iro Lab	/a mg/l	nvirol 600 Varda
rolab	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	67.88	mg/l	200
v8.oL	Alkalinity as CaCO ₃	ardarAPHA, 2320 B, Titrimetric Method ab Va	rdan Er178.63 ab Vard	armg/IV	roLab \600 an Ei
9an	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	52.60	mg/l	an Env1000 ab V
10.vi	Residual Free Chlorine	APHA, 3500 Cl B Iodometric Method	*BDL(**DL 0.02 mg/l)	/a mg/l	EnviroLah Varda
roLab	"Cyanide as CN	APHA, 4500 CN-Ddan Enviro	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
V12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	rdan En 4.28 Lab Vari	mg/l	roLab V ₁₀₀ ian Ei
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	oLan V-335.00 Enviro	mg/l	an Env2000 ab v
14.71	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	o Vardar9116 viro Lab	valmg/I	EnviroL ₄₀₀ varda
15.	Fluoride as F	APHA, 4500-F-D, SPADNS Method	ab Varc 0.34 EnviroLa	mg/l	n Envirol ab Var
16.	Nitrate as NO ₃	IS 3025 (P-34) .Chromotropic Method	6.24	mg/l	No Relaxation
rd3n	Iron as Fe D Vandan Env	APHA, 3500-Fe B 1,10 Phenanthroline Method	oLab Val0.23n Enviro	mg/l	an No relaxation /
18.Vi roLab	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide-Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Lab Vardan Env
19.	Boron ab Vardan Enviro	APHA, 4500B C, Carmine Method	rdan EnviroLab Van	mg/l	iroLab Vardan E
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation

Sample Description:

Sample Location: ardan EnviroLa

Envirol ab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env

Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan www.vardan.co.in

dan EnviroLab Vardan En

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Vardan EnviroLab Vardan

Sample	No.: VEL/APL/W/04	nviroLab Vardan EnviroLab Vardan	EnviroLab Vardan Er	iviroLaiRep	ort No: VEL/W/2101/20/004
n Envi	roLab Vardan Envi EnviroLab Vardan roLa Parameter Env Vardan EnviroLal tyiroLab Vardan E	rotab Vardan Envirotab Vardan En Envirotab Vardan Envirotab Varda rotab Varda Test-Methodab Vardan En Vardan Envirotab Vardan Envirot hvirotab Vardan Envirotab Vardan	viroLab Vardan Env n EnviroLab Vardan viroLab Résult an Env ab Vardan EnviroLal EnviroLab Vardan E	roLab Vard EnviroLab roLUnit/ard Vardan En viroLab Va	Limits of IS:10500-2012 RA-2018 Permissible limit in the Absence of Alternate Source
21,	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	roLmg/l/arc	an Enviro0.002 vardan
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	T Envirol518 Vardan	μS/cm	Vardan EnviroLab Vardan
23.	"Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	viroLab Val Qan Enviro
1v24oL	Zinc as Znn EnviroL	APHA, 3111 B, Direct Air, Acetylene Flame Method	Lab Var 0.27 Envirol	ab \mg/llan roLab Varo	EnviroLab Vårdan Env Jan EnviroLab Vardan
25.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	Enving/Lab	Vardan EnvisoLab Var Ian EnviroLab Vardan
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	Vamg/ln Er	viroLab Va0:3lan Enviro
v27oL	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	ab \mg/llan roLab Varo	Enviro No Relaxation Env
т 28. п п Епу	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	Envmg/l_ab	Vanda No Relaxation
29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	Vamg/In Er	viro La No Relaxation
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	EnviroLab 0.05
n 317V	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	roLmg/l/arc	an En No Relaxation dan
32.	Total Coliform	IS 1622:2009 : 1987, RA:2019	viroLab Vardan Env	MPN/100ml	Shall not be detectable in an 100 ml sample
33. L	E. Coli E. Col	IS 1622:2009 : 1987, RA:2019	Absent Absent E	MPN/100ml	Shall not be detectable in an 100 ml sample

dan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vard ardan EnviroLab Vardan nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan MAMTA NAYAK EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa GAURAV EnviroLab Vardan EnviroLab Vardan EnviroLab Varda ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab V Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan F EnviroLab Vardan Enviro

Vardan *BDL-Below Detection Limit, **DL- Detection Limit, viroLab Vardan EnviroLab Vardan E



nyiroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

Vardan EnviroLab Vardan EnviroLab Vardan Enviro

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dan EnviroLab Vardan EnviroLab Vardan EnviroLab Test Report

Sample Number: ab Vardan Envi VEL/APL/W/05

Sample Description:

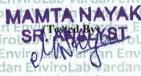
ardan EnviroLab Vardan Enviro Tehsil- Sunder pahari, District-Godda, EnviroLab Vardan EnviroLab VaJharkhandiroLab Vardan EnviroLab

GROUND WATER Sample Location: ardan EnviroLa Village-PAHARPUR By Vardan Enviro Sample Collected by: Wirolah Warr Vardan Enviro Lab Representative of a hard E Sampling and Analysis Protocol: ValS-3025, APHA Lab Vardan Enviro Lab

Report No.: rdan Envir VEL/W/2101/20/005 mol ab Vardan da Name & Address of the Party: Irola M/s Adani Power (Mundra) Limited nyiro Format No.: n Enviro Lat 7.8 F-01an Enviro Lab Wardan En nviroLab Vardan EnviroLab Var Jitpur Open Cast Coal (2.5 MTPA) Lab VaParty Reference No.: Vard NIL EnviroLab Vardan Envir Reporting Date: 24/01/2021 20/01/2021 to 24/01/2021 Period of Analysis: 20/01/2021 dan EnviroLab Vardar Receipt Date: Sampling Date: 18/01/2021 EnviroLab Vardan En Sampling Quantity: Var 2.0 Ltr + 200 ml Vardan EnviroLa ar Parameter Required: and Enviro Lab Vardan Env Preservation: IroLab VaRefrigerated OLab Vardan Enviro

in EnviroLab Vardan EnviroLab Vardan Em

ardan in Envi S. No. n dan En nviroLa	InviroLab Yardan Env roLab Vardan EnviroL Varda ParameterLab Var viroLab Vardan Enviro ib Vardan EnviroLab V	rol ab Vardan Envirol ab Vardan Enviro ab Vardan Envirol ab Vardan Envirol ab dan Envirol a Test-Method nvirol ab Vard blab Vardan Envirol ab Vardan Envirol ardan Envirol ab Vardan Envirol ab Var	Lab Vardan Envirola Vardan Envirolab Va an Envir Result Vardan ab Vardan Envirolab dan Envirolab Varda	b Vare Irdan l EiUnito Varda n Envi	Limits of IS:10500 - 2012 RA-2018 Permissible limit in the Absence of Alternate Source
n knyh	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	Vardan E _{7.55} roLab Va	b Vare	No Relaxation
n 2.nvi	Colour Vardan EnviroL	APHA ,2120 B, Visual Comparison Method at	*BDL (**DL 5Hazen)	Hazen	InviroLal5 Vardan
dan Er	Turbidity	APHA, 2130 B, Nephlelometric Method	ab Vardan Envirol ab	NTU	Lab Vargan Envir
nv4:oLa	Odourdan EnviroLab V	and APHA, 2150 B, Threshold OdourMethod Val	dan EnAgreeable Vanda	n Envi	Agreeable
71 5.11VI	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	irdan t ib Varo	Agreeable
n 6.nvi	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	Vardan 137.00 ro Lab V.	mg/l	nviroL600Vardan
dan Er	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	51.32	mg/l	200
nv8:oL	Alkalinity as CaCO ₃	ar dan APHA , 2320 B, Titrimetric Method ab Val	dan Envi34.68 b Varda	mg/l	roLab V600 an Env
9.	Chloride as Cl	APHA, 4500-Cl ⁻ B, Argentometric Method	Lab Var 45.26 Enviro	mg/l	an Env1000 ab Val
וענטו מ	Residual Free Chlorine	ab ValAPHA, 3500 Cl B Iodometric Method OLal	*BDL(**DL 0.02 mg/l)	mg/l	inviroLab Vardan
iroLab dan Er	*Cyanide as CN	APHA , 4500 CN- D	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
7V12?L	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	dan Envignab Varda	□ mg/l	roLab V ₁₀₀ ian En
13.	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	Lab Var285.00 pviroLa	∟ mg/l-	ап Env2000 ab va
14.V	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	Vardan 7.26 iroLab V	mg/l	11VIFOL 400 al dal
dal5.Er	Fluoride as Fardan Envir	APHA, 4500-F- D, SPADNS Method	ab Varda ^{0,56} nviroLab	mg/l	n Envirol 5 b Vard
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	dan Env 7.70 ab Varda	mg/l	No Relaxation
ard7an	Iron as Fe b Vardan Env	APHA, 3500-Fe B 1,10 Phenanthroline Method	Lab Var 0.15 EnviroLa	mg/l	an No relaxation Va
iroLab	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	Lab Vardan Envi
da _l j Er nviroLi	Boron	APHA, 4500B C, Carmine Method	dan EnviroLab Varda	mg/l	roLab Vardan En
n 20:vi ardan	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation ar



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Note: Terms & conditions refer on backside of test report. Vandam Enviro Lab Vardam Enviro Lab Vardam

dan EnviroLab Vardan En

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Vardan EnviroLab Vardan

Sample No.: VEL/APL/W/05nviroLab Vardan EnviroLab Vardan En	viroLab Vardan Envi	roLab VRep	oort No: VEL/W/2101/20/005
dan EnviroLab Vardan En	EnviroLab Vardan En Lab Vardan EnviroLa viroLab Resultan Enviro n EnviroLab Vardan I viroLab Vardan Envi	viroLab Vardan oLiUnit'ard InviroLab	Limits of IS:10500-2012 RA-2018 Permissible limit in the Absence of Alternate Source
21. Phenolic Compounds APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	irdan Env ^{0.002} ab Varda
22. Electrical Conductivity APHA, 2510 B, Conductivity Meter Method	Lab Varc460 EnviroLa	μS/cm	EnviroLab Vardan Env
23. "Anionic Detergents as APHA, 5540 C MBAS Method MBAS	*BDL(**DL 0.02 mg/l)	mg/l	Vardan EmlioLab Var
Zinc as Zn Environ APHA, 3111 B, Direct Air, Acetylene Flame Method	b Varda 0.37nviroLab	va mg/l	iviroLab Val5jan Enviro
25. Copper as Cu APHA, 3111 B, Direct Air, Acetylene Flame Method	Lab Var 0.11 EnviroLa	mg/l	EnviroLab Vardan Env
26. Manganese as Mn APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	Vardan En 03 of ab Vardan
27. Cadmium as Cd APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l E	No Relaxation
28. Lead as Pb APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	b Vmg/lan	No Relaxation
29. Selenium as Se ardan APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	my/lab	Varda No Relaxation Var
30. Arsenic as As APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.05
31. E Mercury as Hg dan E VAPHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	virmg/lo V	rdan No Relaxation and
32. Total Coliform IS 1622:2009: 1987, RA:2019	viroLab Vardan EnviroL	MPN/100ml	Shall not be detectable in an 100 ml sample
33. E. Coli IS 1622:2009 : 1987, RA:2019	Absent	MPN/100ml	Shall not be detectable in an 100 ml sample

Enviro*BDL-Below Detection Limit, **DL- Detection Limit, vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En ab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En ard MAMTA NAYAK EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab nviroLab Vardan EnviroLab Vardan RAWATO Vardan EnviroLab SR BANALYST IroLab Vardan EnviroLab nviroLab Vardan EnviroLab Vardan EnviroLab Vardan En /ardan EnviroLab Vardan E. Checked By) nviroLab Vardan Erwiro dan EnviroLab Vardan Enviro Pardan EnviroLab Vardan EnviroLab nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan ardan EnviroLab Vardan EnviroLab dan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan F EnviroLab Vardan Enviro



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dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 Wirolan Vardan Envirolab Vardan Enviro

dan EnviroLab Vardan EnviroLab Vardan EnviroLab Test Report

dan EnviroLab Vardan EnviroLab Sample Number: ab Vardan Envir VEL/APL/W/06 Enviro ardan EnviroLab Vardan Enviro Tehsil- Sunder pahari, District-Godda, nu EnviroLab Vardan EnviroLab VaJharkhand iroLab Vardan EnviroLab V Sample Location: ab Vardan Envir Village- DAHUBERA rolab Vardan En Sample Collected by: Lan Envirola Vardan Enviro Lab Representative

Sampling and Analysis Protocol:

Vardan EnviroLab Vardan EnviroLab Vardan

Parameter Required: Various Var As per Work Order IS-3025,APHA

Report No.: VEL/W/2101/20/006 da Name & Address of the Party: iro La M/s Adani Power (Mundra) Limited Invited Format No.: Enviro Lai 7.8 F-01an Enviro Lab Vardan En nviroLab Vardan EnviroLab Var Jitpur Open Cast Coal (2.5 MTPA) Lab Vararty Reference No.: VardNILEnviroLab Vardan EnviroLa Reporting Date: Envirol-24/01/2021 Envirolab Vardan da Sample Description: dan Enviro Lal GROUND WATER Lab Vardan Enviro Period of Analysis: ro Lab 20/01/2021 to 24/01/2021 Vardan Enviro Receipt Date: dan Envir 20/01/2021 dan EnviroLab Vardat Sampling Date: nviroLal 18/01/2021 EnviroLab Vardan En 2.0 Ltr + 200 ml Vardan EnviroLa Sampling Quantity: Grab EnviroLab Vardan Enviro Sampling Type: Preservation: EnviroLa Refrigerated nviroLab Vardan Em

b Varcan EnviroLab Vardan EnviroLab Vardan Em

S. No.	roLab Vardan EnviroL Vardan EnviroLab Va viroLab Vardan EnviroLab V roLab Vardan EnviroLab V	ab Vardan EnviroLab Vardan EnviroLab dan EnviroLab Vardan EnviroLab Vard oLab Vardan ETest-Method ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab	Vardan EnviroLab V an EnviroLab Vardan ab Vardan EnviroLab dan EnviroLab Varda Vardan EnviroLab V	Unit	Limits of 1S:10500 - 2012 RA-2018 Permissible limit in the Absence of Alternate Source
ardan	pH (at 25 °C) Vardan Env	APHA ,4500-H ⁺ B Electrometric Method wire	Lab Varc7:69 EnviroL	b Varo	an No Relaxation
viroLab	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	Lab Vargan Enviro
da31 Er	Turbidity Vardan Envir	LabAPHA, 2130 B, Nephlelometric Method	ab Varda< 0.5 viroLab	NTU	n Envirosab Varda
in £nvi	Odour Vardan EnviroL	APHA, 2150 B, Threshold OdourMethod	Agreeable	rdān i	Agreeable
arsan	Taste CLab Vardan Env	APHA, 2160 B, Threshold Test Method	Agreeable	ib Vard ardan	Agreeable
/ir6Lab	Total Hardness as CaCO ₃ /a	darAPHA, 2340 C, EDTA Titrimetric Methodard	an Envir170.00 Vardan	E mg/l	Lab Var600n Enviro
nviroL	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	dan Eny ^{59.36} ab Varda	mg/l	roLab V200 dan Env
ın 8.nvi	Alkalinity as CaCO ₃	Var APHA, 2320 B, Titrimetric Method To Lab	Vardan 163.02 o Lab Vi	mg/l	nviroL 600 ardan
9.	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	Vardan 49.68 roLab V	mg/l	nviroL1000/ardan
/irq0,ab	Residual Free Chlorine	dan EAPHA, 3500 Cl B lodometric Method Vard	*BDL(**DL 0.02 mg/l)	mg/l	Lab Vardan Envir
nvHeL	"Cyanide as CN	ardan Envir APHA , 4500 CN- D viroLab Vai	*BDL(**DL 0.05 mg/l)	mg/l	No Relaxation
12.	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	5.32	mg/l	100
an 13 _{11/1}	Total Dissolved Solids	b VarAPHA, 2540 C, Gravimetric Method o Lab	Vardan360.00roLab V	mg/l	nviro 2000/ardan
rirq4.ab	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	8.69	mg/l	400
nv15 ₀ L	Fluoride as F Enviro Lab \	ardar APHA , 4500-F- D, SPADNS Method b Va	dan Envio.29 ab Varda	mg/l	roLab VL5dan Env
16.	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	vardan 2.78	mg/l	No Relaxation
an 17avi	Iron as Feardan EnviroL	APHA, 3500-Fe B 1,10 Phenanthroline Method	Vardan 0.09 iroLab V	mg/l	No relaxation
dan Er	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	n EnviroLab Varda
19.	Boron Vardan EnviroL	APHA, 4500B C, Carmine Method	Vardan EnviroLab V	mg/l	inviroLab Vardan
ar 20.n an Envi	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	No Relaxation





viroLab Vardan EnviroLab Vardan Note: Terms & conditions refer on backside of test report. Vardan Enviro Lab Vardan Enviro Lab Vardan



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Vardan EnviroLab Vardan

n Envi ardan S. Nov iroLai dan Ei	roLab Vardan Env EnviroLab Vardan roLaParameter Env Vardan EnviroLal iviroLab Vardan E	roLab Vardan EnviroLab Vardan En EnviroLab Vardan EnviroLab Varda IroLab Varda Test-Methodab Vardan En Ivardan EnviroLab Vardan EnviroLab IviroLab Vardan EnviroLab Vardan	viroLab Vardan Env n EnviroLab Vardan viroLal Result an Env ab Vardan EnviroLal EnviroLab Vardan En	roLab Var EnviroLab IrolUnitVar Vardan E IviroLab V	Limits of IS:10500-2012 RA-2018 Permissible limit in the Absence of Alternate Source
21.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	ro mg/l _{/ar}	dan Envir 0.002, vardan
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	n Enviroi ₅₈₅) Vardan virol ab Vardan Env	μS/cm	Vardan EnviroLab Var dan EnviroLab Vardan
ir 23.at	"Anionic Detergents as MBAS	Var - APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l E	nviroLab V1.0dan Envir
n Envi	Zinc as Zn n Envirol	APHA, 3111 B, Direct Air, Acetylene Flame Method	Lab Var 0.22 EnviroL viroLab Vardan Env	ab mg/ldan roLab Van	EnviroLab15ardan Env dan EnviroLab Vardan
n Env	Copper as Cu Vardan	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	En mg/ILaE roLab Var	Vardan EnlisroLab Vardan EnviroLab Vardan
ir 26. at dan Ei	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mmg/l)	Vamg/lm E hviroLab V	nviroLab V0.3dan Envir ardan EnviroLab Vard
nv27oL n Envi	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	ab 'mg/ldan roLab Var	Envir No Relaxation Envirolation Envirolation
n Env	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	Emmg/ILab roLab Var	Varda No Relaxation Vardan EnviroLab Vardan
1-29.at	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	Vamg/l = E	nviro No Relaxation Invi
30,	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	EnviroLal 0.05 rdan Env
3100	Mercury as Hg	APHA, 3112 B, Cold Vapor AAS Method	*BDL (**DL 0.001 mg/l)	ro mg/lVar	dan E No Relaxation
32.	Total Coliform	IS 1622;2009 : 1987, RA:2019 an Er	viroLab Vardan Env	MPN/100ml	Shall not be detectable in any 100 ml sample
33. E	E. Coli	IS 1622:2009 : 1987, RA:2019	Absent	MPN/100ml	Shall not be detectable in an 100 ml sample

Varda*BDL-Below Detection Limit, **DL- Detection Limit ViroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan MiroLab Vardan EnviroLab MAMada AYAK IroLab Vardan EnviroLab n EnviroLab Vardan Enviro PiroLab Vardan EnviroLab GAURAY (Approved By) nviroLab Vardan OviroLab Vardan EnviroLab Paren EnviroLab Vardan EnviroLab viroLab Vardan EnviroLab Vardan EnviroL EnviroLab Vardan Enviro dan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E EnviroLab Vardan Enviro



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dan EnviroLab Vardan EnviroLab Vardan EnviroLab Test Report

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Em

viroLab Vardan Enviro Sample Number: ardan EnviroLat Name & Address of the Party: Vard ardan EnviroLab Vardan EnviroL EnviroLab Vardan EnviroLab Var

Sample Description: Vardan Envir Sample Location: Sample Collected by:

SURFACE WATER TO Lab Vardan Down Stream of Kewari Nala VardanEnviroLab Representative

Report No.: VEL/W/2101/20/007 M/s Adani Power (Mundra) Limited and Va Format No.: oLab Var 7.8 F-01 iroLab Vardan EnviroLa Jitpur Open Cast Coal (2.5 MTPA) Envir Party Reference No.: 170 NIL Vardan EnviroLab Vardan Tehsil- Sunder pahari, District-Godda, ab Reporting Date: Lab V 24/01/2021/110Lab Vardan Enviro dan EnviroLab Vardan EnviroLab Jharkhand nviroLab Vardan EnviroL Period of Analysis: OLa 20/01/2021 to 24/01/2021 Vardan EnviroLab Receipt Date: 20/01/2021 18/01/2021 oLab Vardan EnviroLa Sampling Date: Sampling Quantity: 2.0 Ltr + 200 ml EnParameter Required Enviro Lab Var As per Work Order Vardan Enviro Lab \Sampling Type: Lab VaGrab Enviro Lab Vardan Enviro dar Sampling and Analysis Protocol: Lab IS-3025, APHA iro Lab Vardan Enviro L Preservation: Enviro La Refrigerated nviro Lab Vardan Enviro

nb Varcam EnviroLab Vardam EnviroLab Vardam Em

n Enviro	Lab Vardan EnviroLab	Vardan EnviroLab Vardan EnviroLab Vardan E	nviroLab Vardan EnviroLa	b Varda
S. No.	Parameter Parameter	Test-Method	Lab Vardar Result Volab Var Envirolab Vardan Enviro	Unit
viroLab	Vardan EnviroLab Var	dan EnviroLab Vardan EnviroLab Vardan Envi	roLab Vardan EnviroLab Va	ırdan E
rdan Er	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	an EnviroLab Vardan Envi	oLab V
n E2.viro	Colourardan Enviro Lab	VardarAPHA ,2120 B, Visual Comparison Method rdan	*BDL (**DL 5Hazen)	Hazen
dan Env	Turbidity ardan EnviroL	APHA, 2130 B, Nephlelometric Method	n EnviroLab 🎖 🗗 rdan Enviro	NTU
viraLab	Odouran Envirol an Var	APHA, 2150 B, Threshold OdourMethod	Agreeable	irdan E b Varda
ırdən Er	TasteLab Vardan Enviro	Lab Var APHA, 2160 B, Threshold Test Method ab Vard	an Enviro Agrecable dan Envi	oLab V
roLab V	Total Hardness as CaCO ₃	APHA, 2340 C, EDTA Titrimetric Method	Lab Vardar aviroLab Var	mg/l
lan7Env	Calcium as Ca an EnviroL	Val APHA, 3500 Ca B, EDTA Titrimetric Method	n EnviroLal49/11 dan Enviro	mg/l
El ⁸ viro	Alkalinity as CaCO ₃	Vardan E APHA, 2320 B, Titrimetric Method Vardan E	nviroLab v145.96n EnviroLa	mg/l
rdon Er	Chloride as Cl	APHA, 4500-Cl B, Argentometric Method	35.80 ardan Envirol	mg/1
roll0b V	Residual Free Chlorine	n Enviro APHA, 3500 Cl B lodometric Method n Enviro	Lab *BDL(**DL 0.02 mg/l) Var	dan En
lan Env virocab	"Cyanide as CN	dan EnviroLab APHA , 4500 CN- Dib Vardan Envi	*BDL(**DL 0.05 mg/l)	mg/l
Ell2,iro	Magnesium as Mg	APHA, 3500 Mg B, Calculation Method	nviroLab V4/49an EnviroLa	mg/l
El3/irc	Total Dissolved Solids	Vardan EAPHA, 2540 C, Gravimetric Method Vardan	nviroLab \254.00 n EnviroLa	mg/l
14. V	Sulphate as SO ₄	APHA, 4500 E, Turbidimetric Method	Lab Vardan EnviroLab Var	mg/l
virt5.ab	Fluoride as FiviroLab Var	APHA, 4500-F-D, SPADNS Method	oLab Vardal.20 nviroLab V	mg/l
16. Er	Nitrate as NO ₃	IS 3025 (P-34) ,Chromotropic Method	an EnviroLa Vardan EnviroLa Dan EnviroLa Vardan Envi	mg/l
n Enziro	Iron as Fe dan EnviroLab	APHA, 3500-Fe B 1,10 Phenanthroline Method	InviroLab Vol28an EnviroLa	mg/l
lan18.nv	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
Ellairo	Boron/ardan EnviroLab	Vardan EnAPHA, 4500B C, Carmine Method Vardan E	nviro*BDL(**DL 0.1 mg/l) rola	mg/
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/1





EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En

(Approved By) MAP SING

Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan

dan EnviroLab Vardan En

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Vardan EnviroLab Vardan

Sample No	:: VEL/APL/W/07 EnviroLa	b Vardan EnyiroLab Vardan EnviroLab Vard	an EnviroLab Report No: VEI	L/W/2101/20/007
mviroLai an Enviro Yardan Er arSENo iro viroLab V rdan Env	Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Varda EnviroLab Varda EnviroLab Vardan E	an EnviroLab Vardan Env	EnviroLab Vardan EnviroLab EnviroLab Vardan Enviro dan EnviroLab Vardan En EnviroLal Result Ian Enviro toLab Vardan EnviroLab V an EnviroLab Vardan Envi	Lab Vardan Er ViroLab Vard Lab Vunitan E Ardan Envirol roLab Vardan Vardan Envir
an E21viro	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	ab vmg/lan E
22.	Electrical Conductivity	APHA, 2510 B, Conductivity Meter Method	FoviroLab Vardan Enviro	μS/cm
viro23.b \	"Anionic Detergents as MBAS	EnviroLa APHA, 5540 C MBAS Methodrdan Envir	oLa *BDL(**DL 0.02 mg/l) b V	ardarmg/lviro
24.	Zinc as Zn	APHA, 3111 B. Direct Air, Acetylene Flame Method	viroLab Vardan EnviroLab	ward mg/l
25/110	Copper as Cu Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
26.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	=-*BDL(**DL 0.06 mmg/l)	Lab \mg/lan E
27.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l
nvi28.Lal	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	Vard mg/Lnvii
/ar 29.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	vico mg/l/ard
30.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l
rdaßlEnv	copab Vardan EnviroLa	APHA 5220 B Open Reflux Method	an EnviroL22.00 ardan EnviroLah	roLalmg/lindar
an E32./iro	BOD (3 Days at 27°C)	ardan Enapha, 5210 C/IS 3025 (Part 44) b Vardar	EnviroLab<5.00 Jan Enviro	ab Vmg/lan E
33.	Dissolved Oxygen	/ardan EAPHA 4500 O B Iodometric Method Vardan	EnviroLab 6.5rdan Enviro	ab mg/lam

Note: - These parameter are not covered in our NABL scope. Tollab Vardan Envirolab Vardan E *BDL-Below Detection Limit, **DL- Detection Limit dan EnviroLab Vardan En Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab EnviroLab Vardan Enviro dan EnviroLab Vardan En ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Varda dan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Em Vardan EnviroLab Vardan dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan I EnviroLab Vardan Enviro



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EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab

EnviroLab Vardan EnviroLab Var

Sample Description:

ardan EnviroLab Vardan EnviroLharkhandan EnviroLab Vardan Env

Vardan EnviroLab SURFACE WATER Sample Location: Up-Stream of Kewari Nala

ab Vardan EnviroLab Vardan EnviroLab Vardan Sample Number: /ardan EnviroLa VEL/APL/W/08 and Lab vardan Envirol Report No.: EnviroLabVEL/W/2101/20/008 ab vardan Envirol V Name & Address of the Party: Envir M/s Adani Power (Mundra) Limited an Environment No.: rdan Envir 7.8 F-01 ardan Environab Vardan dan EnviroLab Vardan EnviroLa Jitpur Open Cast Coal (2.5 MTPA) Enviro Party Reference No.: OLal NIL rdan EnviroLab Vardan En nviroLab Vardan EnviroLab Vard Tehsil-Sunder pahari, District-Godda, by Reporting Date: ab Vard 24/01/2021 o Lab Vardan EnviroLa Period of Analysis: 20/01/2021 to 24/01/2021 Receipt Date: 20/01/2021 EnviroLab Vardan Em Sampling Date: 18/01/2021 Sample Collected by: dan Enviro La Vardan Enviro Lab Representative Enviro Sampling Quantity: 10 a 2.0 Ltr + 200 ml ro Lab Vardan En ny Parameter Required: wiroLab Varc'As per Work Order ardan EnviroLab V-Sampling Type: Lab VardGrabnyiroLab Vardan EnviroLa ar Sampling and Analysis Protocol: viro IS-3025, APHAEnviro Lab Vardan Enviro Preservation: an Enviro Refrigerated Enviro Lab Vardan in

n Enviro	Lab Vardan EnviroLab IviroLab Vardan Enviro	Vardan EnviroLab Vardan EnviroLab Vardan E Lab Vardan EnviroLab Vardan EnviroLab Vard	nviroLab Yardan EnviroLa an EnviroLab Vardan Envi	o Vardan roLab Var
S. No.	Lab VaParameter IroLah	Vardan EnviroLal Test-Method nviroLab Vardan I	nviroLab Result n EnviroLa	Unitary
iroLab V	ardan EnviroLab Vard	an EnviroLab Vardan EnviroLab Vardan Enviro	Lab Vardan EnviroLab Var	dan Envir
virbLab	pH (at 25 °C)	APHA ,4500-H ⁺ B Electrometric Method	olab Varda 7.67 nvirolab Va	irdae Env
Envire	Colour	APHA ,2120 B, Visual Comparison Method	*BDL(DL 5 Hazen)	Hazen
n Egyvire	Turbidity dan EnviroLab	Vardan APHA, 2130 B, Nephlelometric Method/ardan	nviroLab Va6.9an EnviroLa	NTU
ro <u>Lab V</u> Jan Env	Odourb Vardan EnviroL	APHA, 2150 B , Threshold OdourMethod	Agreeable	tan Envi: Lab ⊽ardi
virgital	Taste	APHA, 2160 B, Threshold Test Method	Agreeable	irdan Env 5 Vardan
rd6n Ei	Total Hardness as CaCO ₃	Lab VaAPHA, 2340 C, EDTA Titrimetric Method b Varo	an Enviro L _{132.00} rdan Envi	oLmg/l/ar
n Enviro roLab V	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	Lab Vardar44.69 iroLab Var	mg/l
lar8,Env	Alkalinity as CaCO ₃	APHA, 2320 B, Titrimetric Method	162.18	mg/l
E9wire	Chloride as Cl. EnviroLab	Vardar APHA, 4500-Clf B, Argentometric Methodardan E	nviroLab V32.64m EnviroLa	mg/l
10.	Residual Free Chlorine	APHA, 3500 CI B Iodometric Method	*BDL(**DL 0.02 mg/l)	b Vardar
rollab V	*Cyanide as CN	an EnviroLab VaAPHA , 4500 CN-D Vardan Enviro	Lab *BDL(**DL 0.05 mg/l) Var	mg/l
12.	Magnesium as Mg	dan Em APHA, 3500 Mg B, Calculation Method an Envi	roLab Varda4.98 nviroLab V	mg/l
rdan Fr	Total Dissolved Solids	APHA, 2540 C, Gravimetric Method	265.00	mg/l
El4.iro	Sulphate as SO ₄ EnviroLat	Vardan APHA, 4500 E, Turbidimetric Method Vardan	nviroLab V 9.03an EnviroLa	b V mg/lar
rolab V	Fluoride as F	APHA . 4500-F- D, SPADNS Method	Lab Vardam EnviroLab Var n EnviroLab 0.10 rdan Enviro	mg/l
vir16. a	Nitrate as NO ₃ VITO Lab Vai	IS 3025 (P-34) ,Chromotropic Method lan Env	roLab Varda0.81 nviroLab V	mg/l
rdan E	Iron as Fe Vardan Enviro	Lab VAPHA, 3500-Fe B 1,10 Phenanthroline Method Varia	an EnviroL 0.29/ardan Envi	mg/l
roLab \	Aluminium as Al	APHA, 3111 D, Direct Nitrous Oxide- Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
ları9.hv	Boron D Vardan EnviroL	APHA, 4500B C, Carmine Method	*BDL(**DL 0.1 mg/l)	mg/l
20.	Total Chromium as Cr	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l





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Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan

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Vardan EnviroLab Vardan

Sample No	o.: VEL/APL/W/08 wino Lab	ardan EnviroLab Vardan EnviroLab Varda	EnviroLab V Report No: VEL	/W/2101/20/008
ardan kan Environab	mviroLab Vardan Envirol oLab Vardan EnviroLab Vardan EnviroLab Varda viroLab Yarameter nviroLa o Vardan EnviroLab Vard	ab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env n EnviroLab Vardan EnviroLab Vardan Env b Vardan Enviro Test-Method EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En	rdan Envirotab Yardan Enviro n Envirotab Vardan Enviro rotab Vardan Envirotab V dan Envirotab Yardan Envirotab virotab Vardan Envirotal	oviroLab Var oLab Vardan (ardan Envir iroLa <mark>bni</mark> tarda o Vardan Env
in Envir ardan E	oLab Vardan EnviroLab I nviroLab Vardan Envirol	fardan EnviroLab Vardan EnviroLab Varda Lab Vardan EnviroLab Vardan EnviroLab Va	n EnviroLab Vardan Enviro Irdan EnviroLab Vardan E	oLab Vardan nviroLab Var
21. 22.	Phenolic Compounds	APHA, 3530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l) 442	mg/l µS/cm
22.	Electrical Conductivity *Anionic Detergents as MBAS	APHA, 2510 B, Conductivity Meter Method APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l
ar24n E	Zinc as Zn Vardan Enviro	APHA, 3111 B, Direct Air, Acetylene Flame Method	irdan Enviro.46b Vardan E	nyiro mg/l Vai
25. d 26.En	Copper as Cu Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method APHA, 3111 B, Direct Air, Acetylene Flame Method	* BDL(**DL 0.03 mg/l) *BDL(**DL 0.06 mmg/l)	mg/l mg/l
nviroLa n 27.vir	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l
28.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.13mg/l)	mg/l
29.ab	Selenium as Se Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l) *BDL(**DL 0.01 mg/l)	/ardamg/l mg/l
nviroLa in Blwir	COD Vardan Enviro Lab	APHA, 3114 B, Manual Hydride Generation APHA 5220 B Open Reflux Method	EnviroLa 24.00	mg/l
32,	BOD (3 Days at 27°C)	/ardan E APHA, 5210 C/1S 3025 (Part 44) b Varda	n EnviroLa55.00rdan Envir	_{pLab} mg/l _{dar}
dan En	Dissolved Oxygen	APHA 4500 O B Iodometric Method	dan EnviroLab Vardan Env	mg/l

Note: "These parameter are not covered in our NABL scope day that the state of the

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Bb: 0124 4242750/752/753 0810355560 0052147368 E-mail: lab@yardanenvironet.com bd@yardanenvironet.com



Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 wire Lab Vardan Enviro Lab Vardan Enviro

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Vardan EnviroLab Sample Number: VEL/APL/01 dan En Project: Vardan EnviroLab M/s Adani Power (Mundra) Limited Format No.: Project No.: 7.8 F-01 EnviroLab Vardan En nviroLab Vardan EnviroLab Varda Jitpur Open cast coal (2.5 MTPA) Tehsil-Sunderpahari, District-Godda Reporting Date: 24/01/2021 ardan EnviroLab Vardan EnviroLa

dan En Sample Collected by Vardan Enviro Lab Team and Enviro Lab Type of Sampling: Lab Composite Type Lab Vardan En

Party Reference No.:

Report No.: An Envir VEL/S/2101/20/001 NiknviroLab Vardan EnviroLa EnviroLab Vardan EnviroLab Var Jharkhand OLab Vardan EnviroLab VarPeriod of Analysis: Var 20/01/2021 to 24/01/2021 an Enviro dan EnvSample Description: EnviroLab SOIL an EnviroLab Vardan EnviroLab Receipt Date: wiroLab 20/01/2021 nviroLab Vardan Em Vardar Sampling Location: dan Enviro Project Site (BathiTola) Core Zone Area TVI Sampling Date: Enviro 18/01/2021 an Enviro Lab Vardar Sampling & Analysis Protocol: 1S 2720 & SOP Vardan EnviroLab Vard Sampling Quantity: 2.0 Kg ToLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLDepth of Sampling iroL 30 cm rdan EnviroLab Vardan E EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab VarPacking Status: Lab Var Temp Sealed Lab Vardan Enviro

S. No.	Parameter	Protocol Protocol	Result	Unit
ab Varda	pH (at 25 °C) Vardan Er	ViroLab VIS: 2720 (P-26) by pH Meter an Enviro	ab Var7.681 Envir	oLab Vərdan E
Envirola Lab Var	Conductivity	IS:14767 by Conductivity meter	0.318	mS/cm
nviro3.ab	V Soil Texture TOLab Vard	an Envirol, IS : 2720 (P-22, RA2003) b Vardan E	Silty Loam	EnviroLab Var
n Enviro	Color	SOP, SP-78,Issue No01& Issue Date-14/02/2013	Yellowish Brown	EnviroLab Var
ab V5ırda	Water holding capacity	SOP, SP-81,Issue No01& Issue Date-14/02/2013	ab Vai32.62 Envir	oLab V% dan E
CLab Var	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	oLab Vardan Env	gm/cc
viroj ab	Chloride as Cl OLab Varo	SOP, SP-85,Issue No01& Issue Date-14/02/2013	nviroL58.00ardan	mg/100gm
nviro Lab	Calcium as Ca	SOP, SP-82,Issue No01& Issue Date-14/02/2013	47.32 ardan	mg/100gm
ab V9:rda	Sodium as Na Vardan Er	SOP, SP-84,Issue No01& Issue Date-14/02/2013	ab Va 56.31 Envir	mg/100gm
Lab ¹⁰ .ar	Potassium as K	SOP, SP-84,Issue No01& Issue Date-14/02/2013	oLab (80.19 Env	kg./hec.
rvirojab	Viron as FenviroLab Varo	an EnviroLab VUSEPA 3050B OLab Vardan E	nviroLa _{2.42} ardan	mg/100gm
viro ¹² ab	Organic Matter	IS:2720 (P-22) Titrimetric Method	nviroL 0.56/ardan	Enviro%ab Var
ab V ₁₃ ,di	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	ab /a 34.12	mg/100gm
Lab14.ar	Available Nitrogen as N	IS:14684 Distillation Method	oLab 169.34 n Env	kg./hec.
viroj5ib	Available Phosphorus (P)	SOP, SP-86,Issue No01& Issue Date-14/02/2013	39.00	kg./hec.
virol6ab	Zinc as Zn	lan EnviroLab \USEPA 3050BroLab Vardan E	nviroL0.44/ardan	mg/100gm / a
ab Vpr.da	Manganese as Mn	USEPA 3050B Vardan Enviro	Lab Varo.761 Envir	mg/100gm
Lab18.ar	Chromium as Cr	EnviroLab Vard USEPA 3050Bab Vardan Envi	oLab V0.32an Env	mg/100gm
VIPO19.D	Lead as Pb	USEPA 3050B CLab Vardan L	nviroL _{30,31} /ardan lan Envirol ab Var	mg/100gm
viг 20. ₁	Cadmium as Cd	lan EnviroLab (USEPA 3050BroLab Vardan I	nviroL0.86/ardan	mg/100gm /a
3b \21.d	Copper as Cu	USEPA 3050B	Lab Varo.71 Envir	mg/100gm

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ph. 0124 4242750/752/752 0910255560 0052147269 5 mail: lab@yardanenyironet.com hd@yardanenyironet.com



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dan EnviroLab Vardan EnviroLab Jitpur Open cast coal (2.5 MTPA) Env ardan EnviroLab Vardan EnviroL Jharkhand LenviroLab Vardan En Period of Analysis: Env SOIL EnviroLab Vardan EnviroL

Sample Description: Sampling & Analysis Protocol: IS 2720 & SOP

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Enviro dan En Sample Number: an EnviroLab VEL/APL/02 viroLab Vardan Envir Report No.: dan Enviro VEL/S/2101/20/002 roLab Vardan Env Varda Project: To Lab Vardan Envir M/s Adani Power (Mundra) Limited Format No.: Vardan Envir No.: Vard Party Reference No.: VIFONIL Vardan Enviro Lab Vardan En nviroLab Vardan EnviroLab Vard Tehsil-Sunderpahari, District-Godda Reporting Date: roLab V24/01/2021 ViroLab Vardan EnviroLa 20/01/2021 to 24/01/2021 Receipt Date: 20/01/2021 an Enviro Lab Mandan Env Varda Sampling Location: Project Site (Jetka Tola) Lab Vardan Sampling Date: 18/01/2021 Vardan Enviro Lab Vardan dan En Sample Collected by Enviro Lab Vardan Enviro Lab Team and an Envir Type of Sampling: nvir Composite an Enviro Lab Vardan En Sampling Quantity: ab V 2.0 Kg EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan En Depth of Sampling Envi 30 cmb Vardan EnviroLab Vardan E EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLaPacking Status; viroLab Temp Scaled viroLab Vardan Enviro

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S. No.	Parameter	Protocol EnviroLab Va	Result	Unit
ian EnviroLat	VpH (at 25 °C) iro Lab Va	ırdan Env IS : 2720 (P-26) by pH Meter ab Vardar	Enviro 7.72 Vardan	EnviroLab V
virolab Vard	Conductivity	IS:14767 by Conductivity meter	0.319	mS/cm
EnviroLal3.Va	dSoil Texture Lab Varda	n EnviroLalIS : 2720 (P-22, RA2003) Vardan En	Silty Loam Env	iroLab-Varda
lan En virgLab Vardan Enviro	Color	SOP, SP-78,Issue No01& Issue Date-14/02/2013	Yellowish Red Var	dan EnviroLa
lan EnviroLat	Water holding capacity V	SOP, SP-81,Issue No01& Issue Date-14/02/2013 ar	Enviro34.12 Vardan	Envir@ab V
ardan EnviroL	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	an Envil 1.28 ab Varda	gm/cc
EnviroLal7.Va	Chloride as Clab Varda	SOP, SP-85,Issue No01& Issue Date-14/02/2013	riroLab 46.34 lan Env	mg/100gm
Vardan Enviro	Calcium as Ca	SOP, SP-82,Issue No01& Issue Date-14/02/2013	dan Er43.00Lab Var	mg/100gm
dan Envir9Lat	Sodium as Na roLab V	SOP, SP-84,Issue No01& Issue Date-14/02/2013	Enviro _{52.63} Vardan	Emg/100gm
ardan Enviol	Potassium as K	SOP, SP-84,Issue No01& Issue Date-14/02/2013	an Env 83.15 b Vard	kg./hec.
EnviroLah Na	Organic Matter	n Envir 1S:2720 (P-22) Titrimetric Method Can En	viroLab 0.62 dan Env	iroLat%/ard
Vardan Envir	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	dan Er26.54Lab Var	mg/100gm
dan Envirus.al	Available Nitrogen	Irdan Env IS:14684 Distillation Method ab Varda	Envir 208.32 ardan	Emvkg./hec.
ardan EnviroL	Available Phosphorus	SOP, SP-86,Issue No01& Issue Date-14/02/2013	an Envi24.60 b Vard	kg./hec.
EnviroLalis/a	Giron as Fe GLab Varda	n EnviroLab VauSEPA 3050B Lab Vardan En	ViroLab 2.16dan Env	mg/100gm
Vardan El&ir	Zinc as Zn EnviroL	b Vardan Envir USEPA 3050B _{n Enviro} Lab Va	rdan En 2,53 Lab Var	mg/100gm
dan Envir oz ,al	Manganese as Mn	irdan EnviroLa USEPA 3050B VIroLab Varda	0.55 ardan	mg/100gm
ardan EnviroL	Chromium as Cr	Vardan Envirol USEPA 3050B Envirolab Vard	an Envii ^{1.01} ab Vard	mg/100gm
EnviroLal ₁₉ /a	Lead as Pb	n EnviroLab VauSEPA 3050B Lab Vardan En	Fovirot ab Vardan	mg/100gm
Vardan E20.ir	Cadmium as Cd nviroL	b Vardan Envir USEPA 3050Bn Enviro Lab Va	rdan En 0.56 Lab Vai	da mg/100gm
dan Envirolah Vard	Copper as Cu	USEPA 3050B	roLab Vargan Envir	mg/100gm
ardan Env22-oL	Molybdenum as Mo	Vardan Envirol USEPA 3050B EnviroLab Vard	an Envil0.76ab Vard	mg/100gm

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nviroLab Vardan Enviro ab Vardan EnviroLab Varda Sample Number: VEL/APL/03 EnviroLa dan En Project: D Vardan EnviroLat M/s Adani Power (Mundra) Limited nviroLab Vardan EnviroLab Vard Jitpur Open cast coal (2.5 MTPA) ardan EnviroLab Vardan Envirol Tehsil-Sunderpahari, District-Godda EnviroLab Vardan EnviroLab Varlan KhandroLab Vardan EnviroLa

dan En Sample Collected by EnviroLal VardanEnviro Lab Team ardan Envir

EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLal Packing Status: viroLal Temp Sealed nviroLab Vardan Enviro

Report No.: Vandan E VEL/S/2101/20/003 Enviro Lab Vardau Format No.: 7.8 F-01 and an envirol ab Vardan En Party Reference No.: NIL an EnviroLab Vardan EnviroLa Reporting Date: an Env24/01/2021 ardan EnviroLab Vardan I Period of Analysis: 20/01/2021 to 24/01/2021 Vardan Enviro dan En Sample Description: Enviro Lab SOIL an Enviro Lab Vardan Enviro Receipt Date: n Enviro 20/01/2021 dan Enviro Lab Vardan Em Varda Sampling Location: rdan Envir Village-Rampur nviroLab Vardan El Sampling Date: dan E18/01/2021 Vardan EnviroLab Vardan Type of Sampling: VII Composite dan EnviroLab Vardan En nvirol Sampling & Analysis Protocol: 1S 2720 & SOP Vardan Envirol Sampling Quantity: 2.0 Kg Envirol Vardan Envirol Sampling Country 2.0 Kg Envirol Vardan En

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an EnviroLab	Vardan EnviroLab Var	dan Envirol ah Vardan Envirol ah Vardan	Envirol ab Vardan Ian EnResult ab Var	Unit
VardanS. No.	Parameter Environment	Vardan EnviroL, Protocol an EnviroLab Var	Construct of the stand	Environal Va
ian Envirolat	pH (at 25 °C)	IS: 2720 (P-26) by pH Meter	7.67	ol ab Vardan I
rdan Envarol	Conductivity	IS:14767 by Conductivity meter	n Envii0.334b Varda	mS/cm_ab
EnviroLais Va	Soil Texture	IS: 2720 (P-22, RA2003)	Silty Loam	iroLab_Vardai
an EnviroLab	Vardan EnviroLab Vai	SOP, SP-78, Issue No01& Issue Date-14/02/2013	CHVILOTTO ATTORIT	EnviroLab Var
Vardan Effvir	Colorardan EnviroLa		Yellowish Red	Can EnviroLa
an Envirgial	Water holding capacity	SOP, SP-81,Issue No01& Issue Date-14/02/2013	29.20	olab vardan
rdan Enverol	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	n Envir1.32 b Varda	m Ergm/cclab
Envir <mark>oLab Va</mark>	Chloride as Cl	SOP, SP-85,Issue No01& Issue Date-14/02/2013	50.36	mg/100gm
an EnviroLat	Calcium as Ca	SOP, SP-82,Issue No01& Issue Date-14/02/2013	dan En 42.15 ab Var	mg/100gm
Vardan E&vir	Name of the second second		Carolinat of Manufact	the state of the s
virolab Vard	Sodium as Na	SOP, SP-84, Issue No01& Issue Date-14/02/2013	53.82	mg/100gm
rdan Envloc	Potassium as K	SOP, SP-84, Issue No01& Issue Date-14/02/2013	n Envi103.16 Vard	kg./hec.
invir btah ya	Organic Matter	IS:2720 (P-22) Titrimetric Method	Freiro 0.62	% al val
an E <u>nviroLat</u> /ardan E n2 ir	Magnesium as Mg	SOP , SP-83,Issue No01& Issue Date-14/02/2013	dan En31.46 ab Var	mg/100gm
	Unades Control of the	edon Control ob Mandan Control ob Mandan	Envirot ab Varrian	Constant of Ale
viroLab Varo	Available Nitrogen	IS:14684 Distillation Method	Lab (224.00 Envir	kg./hec.
rdan EnvI4ol	Available Phosphorus	SOP, SP-86,Issue No01& Issue Date-14/02/2013	n Envi 26.005 Vard	kg./hec.
Envir bLab Va	Iron as Fe	USEPA 3050B	1.63	mg/100gm
Vardan E16:ir	Zinc as Znam = DVIIOLa	Vardan Envir USEPA 3050B	dan Em _{8.26} Lab Vai	mg/100gm
an Environtal	Mardan Envirol als Va	I day Envirol ab Varday Envirol ab Varday	EnviroLab Vardan	mg/100gm
viroLab Varo	Manganese as Mn	nviroLab Vardan EnviroLab Vardan Envir	oLab Va3.73n Envir	oran natual
rdan Envisol	Chromium as Cr 110Lab	/ardan EnviroL USEPA 3050B nviroLab Varda	n Envir0.34 b Vard	mg/100gm
Envirolab Va	Lead as Pb	USEPA 3050B	0.66	mg/100gm
vardan E20,ir	Cadmium as Cd	Vardan Envir (USEPA 3050B) Enviro Lab Var	dan Envo.7) Lab Var	mg/100gm
an Envirol al	Vardan Envirol ab Va	dan EnviroLab Vardan	Enviro Lab Vardan	Envirol ab Va
virol ab Varo	Copper as Cu	nviroLab Varda USEPA 3050B Vardan Envir	oLab Va232n Envir	mg/100gm
ardan Env22.01	Molybdenum as Mo	/ardan Envirol USEPA 3050B nvirolab Varda	n Enviro.46b Vard	mg/100gm

Note-SOP- Standard operating procedure Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Varda Vard dan MAMTA WAXAKviroLab Var

an EnviroLab Vardan Enviro rdan Envir (Checked By)

ardan EnviroLab Vardan EnviroLab Vardan EnviroLab

GALIRAVA (Approved By)

EnviroLab Var Vardan EnviroLab dan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan Env nviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLa ardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan E EnviroLab Vardan Enviro

Db. 0124_4343750/752/753_9810355569_9953147268 F-mail: lab@vardanenvironet.com_bd@vardanenvironet.com



Vardam Sample Number:

nviroLab Vardan EnviroLab Varda

ardan EnviroLab Vardan EnviroLa

EnviroLab Vardan EnviroLab Vard

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122051, Haryana NABL Accredited | MoEF&CC Recognized | ISO 9001 ISO 14001 ISO 45001 pyinoLab Vardan EnviroLab Vardan Enviro

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dan EnviroLab Vardan EnviroLab V VEL/APL/04 M/s Adani Power (Mundra) Limited dan Enviroletti Vardan Envirolab V Jitpur Open cast coal (2.5 MTPA) Tehsil-Sunderpahari, District-Godda Jharkhand Lab Vardan EnviroLa

dan Envi Sample Description: nviroLab VSOIL n EnviroLab Vardan Envir

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dan Envirol ab Vardan Envirol ab Vardan Envirol ab Vardan Envirol ab

Vardan Sampling Location: an Enviro Village-Kerojori Bara ab Mardan E dan Envisample Collected by TVITOLab Vardan Enviro Lab Team dan Envi Sampling & Analysis Protocol: IS 2720 & SOP and Enviro Lab

Format No.: Party Reference No.: Reporting Date:

Report No.: Vardan Envir VEL/S/2101/20/004 at 7.8 F-0lan Enviro Lab Vardan En VardallEnviroLab Vardan EnviroLa 24/01/2021 EnviroLab Vardan I Period of Analysis: 20/01/2021 to 24/01/2021 an Enviro Receipt Date: n EnviroLab 20/01/2021 EnviroLab Vardan Env Sampling Date: rdan Envir 18/01/2021 dan Enviro Lab Vardar Type of Sampling: Composite EnviroLab Vardan En Sampling Quantity: ab Vard 2.0 Kg viroLab Vardan EnviroLa Depth of Sampling: EnviroL30 cmardan EnviroLab Vardan I EnviroLab Vardan EnviroLab Vardan EnviroLab Vardan EnviroLat Packing Status: viroLab Vartemp Scaled Clab Vardan Enviro ardan EnviroLab Vardan EnviroLab Vardan Env

S. No.	Parameter D Variation Notes V	ardan EnviroLab v Protocol nviroLab Vardan I	nviroLResult	Envirollab Van
ab Ward	apH (at 25 °C)ab Vardan	EnviroLah IS: 2720 (P-26) by pH Meter dan Enviro	Lab Var7.681 Enviro	Lab Vardan E
oLab Va	Conductivity	IS:14767 by Conductivity meter	oLab (0.341 Env	mS/cm
nviisoLa	Soil Texture VIIOLab V	ırdan Envirois : 2720 (P-22, RA2003) ab Vardan i	Silty Loam	EnviroLab Vari
nviroLa	Color EnviroLab V	SOP, SP-78,Issue No01& Issue Date-14/02/2013	Yellowish Brown	EnviroLab Var
ab5Var	Water holding capacity	SOP, SP-81,Issue No01& Issue Date-14/02/2013	Lab Va 34.92 Enviro	Lab V% dan E
oLáo Va	Bulk density	SOP, SP-80,Issue No01& Issue Date-14/02/2013	roLab V ^{1.29} an Env	gm/cc
iviijoLa	Chloride as Cl	SOP, SP-85,Issue No01& Issue Date-14/02/2013	nvirol-42.63 ardan	mg/100gm
nvi ⁸ oLa	Calcium as Ca	SOP , SP-82,Issue No01& Issue Date-14/02/2013	nviroL21.45 ardan	mg/100gm
ab9/ar	Sodium as Na Vardan	SOP, SP-84,Issue No01& Issue Date-14/02/2013	Lab Va 20.13 Enviro	mg/100gm
oLa0.Va	Potassium as K	SOP, SP-84,Issue No01& Issue Date-14/02/2013	roLab (133.82 _{in Env}	kg./hec.
aving La	Organic Matter	IS:2720 (P-22) Titrimetric Method	nviroL 0.68 ardan	Inviro%b Var
nvil2La	Magnesium as Mg	SOP, SP-83,Issue No01& Issue Date-14/02/2013	EnviroL2073/ardan	mg/100gm/
abigar	Available Nitrogen	IS:14684 Distillation Method	266.71	kg./hec.
oLJA V	Available Phosphorus	SOP, SP-86,Issue No01& Issue Date-14/02/2013	roLab \31.12an Env	rol kg./hec.
an Envi	Zinc as Zn	USEPA 3050B FOUROLAB VARIANTE	2.72	mg/100gm
nvil6.La	Manganese as Mn	ardan EnviroLab USEPA 3050BuiroLab Vardan	EnviroLal7 Vardan	mg/100gm/ar
-ab _l yarı	Chromium as Cr	Vardan Envirol ab Vardan Envirol ab Vardan	Lab Varo.37 Enviro	mg/100gm
oLal8 Va	Lead as PbroLab Vard	n EnviroLab VarUSEPA 3050BLab Vardan Env	roLab V0.34an Env	mg/100gm an
an Envi	Iron as Fe	b Vardan EnviroLab Vardan EnviroLab Vardan	an EnviroLab Var	mg/100gm
nvi20.La	Cadmium as Cd roLab V	ardan EnviroLabUSEPA 3050BviroLab Vardan	Envirol 0.69/ardan	mg/100gm/ai
-ab ₂ yarı Enviro	Copper as Cu	Vardan Envirol ab Vardan Envirol ab Vardan	Lab Vari 49 Enviro	mg/100gm
oL 22. V	Molybdenum as Mo	n EnviroLab VarUSEPA 3050BLab Vardan Env	oLab V0.62 an Env	mg/100gm an

Varidan El Note-SOP- Standard operating procedure

nviroLab Vardan EnviroLab Vard

EnviroLab Vardan EnviroLab Var

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Note: Terms & conditions refer on backside of test report. Vardan EnviroLab Vardan EnviroLab Vardan