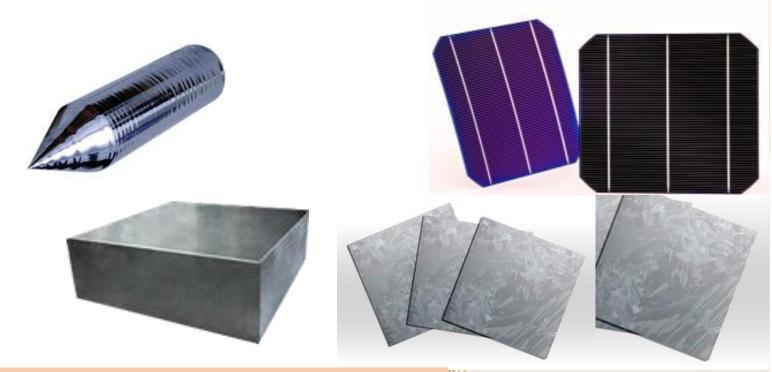
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For Period: April 2020 to September 2020

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENT CLEARANCE (EC)



Submitted to:

WESTERN REGIONAL OFFICE MINISTRY OF ENVIRONMENT, FORESTS & CLIMATE CHANGE,

CENTRAL POLLUTION CONTROL BOARD, NEW DELHI ୫

GUJARAT POLLUTION CONTROL BOARD, GANDHINAGAR

Submitted by:

ENVIRONMENT MANAGEMENT DEPARTMENT

Mundra Solar Limited

ADANI CORPORATE HOUSE, SHANTIGRAM, SG HIGHWAY AHMEDABAD – 382 421 For

31,000 MTPA Polysilicon Manufacturing Project

At

Notified APSEZ, Mundra Taluka, District Kutch, Gujarat

<u>CONTENTS</u>

Si. No.	Title	Annexure			
1.	Compliance Status report on Environmental Clearance (E	C).			
2.	Environmental Monitoring Reports:				
	(April'2020 – September'2020)				
	Ambient Air Quality Monitoring	I			
	Soil Monitoring				
	Noise Level Monitoring				

Compliance status on Environmental Clearance

("Poly Silicon" manufacturing plant within Notified APSEZ, Mundra, Kutch)

EC Letter No. SEIAA/GUJ/EC/3(a)/1277/2019 Dated- 07.09.2019

SI.				
NO.	CONDITIONS	COMPLIANCE STATUS		
Α.	CONDITIONS:			
A 1.	SPECIFIC CONDITIONS			
1.	All efforts shall be made to optimize water consumption by exploring Best Available Technology (BAT). The unit shall continuously, strive to reduce, recycle and reuse the treated effluent.	Currently the project is on hold. MSL will make necessary efforts to optimize		
2.	Unit shall have to adhere to the prevailing area specific policies of GPCB with respect to the discharge of pollutants, and shall carry out the project development in accordance & consistence with the same,			
3.	Unit shall explore the possibilities for environment friendly methods for disposal of incinerable & land fillable wastes before sending to CHWIF/TSDF sites.			
4.	Flame proof electric fitting shall be provided within premises.	Agreed. Flame proof electric fitting will be considered during designing.		
5.	Safety measures for Hazardous chemical handling as per PESO standards shall be provided.	Agreed. MSL will take safety measures for Hazardous chemical handling as per PESO standards once project takes off.		
6.	All measures shall be taken to prevent soil and ground water contamination.	Agreed. Compliance assured once project takes off.		
7.	The project proponent must strictly adhere to the stipulations made by the Gujarat Pollution Control Board, State Government and/or any other statutory authority	Agreed. MSL will adhere to the stipulations made by		
8.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G. S. R. No. 826 (E) dated 16 th November, 2009 shall be complied with.	Noted. Will be complied once project takes off.		
9.	National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G. S. R. 608 (E) dated 21.07.2010 and amended from time to time shall be followed,	Noted. Will be complied once project takes off.		
A 2. 10.	WATER: Total Water requirement for the project shall not exceed 20,048 KLD, Unit shall reuse 48 KLD hence fresh water requirement 20,000 KLD and it shall be	Will be complied once project takes off.		

	met through APSEZ water supply only. Prior	Permission for fresh water requirement has
	permission from the concerned authority shall be	already been taken from APSEZ. Please refer
	obtained for withdrawal of water.	Annexure II
11.	The industrial effluent generation from the project shall not exceed 13,000 KLD.	Will be complied once project takes off.
12.	No ground water shall be tapped for the project requirements.	Agreed. Ground water will not be extracted.
13.	Entire effluent generated 12,300 KLD {2,400 KLD from Cooling water blow down (considering 100 KLD as evaporation loss); 5,600 KLD of treated effluent from ETP (considering 500 KLD as evaporation loss) & 4,300 from filtration (considering 200 KLD evaporation loss)} shall be disposed in guard basin of MSTPL and shall be finally discharged into Sea through outfall channel of APSEZ only after conforming discharge norms prescribed by GPCB/ CPCB/ MoEF & CC norms.	Agreed. Compliance assured once project takes off.
14.	Primary Effluent Treatment Plant (ETP) of capacity 7,000 KLD shall be proposed for treating 6,100 KLD wastewater generated from Etching and for Scrubbing.	•
15.	4,500 KLD effluent generated from Cleaning & Slim Rod Cutting shall be Filtered and disposed into Guard Basin of MSTPL and finally discharged into Sea through outfall channel of APSEZ.	-
16.	2,400 KLD effluent generated from cooling tower blow down shall be treated, (Neutralized in Neutralization Pit) and disposed into Guard Basin of MSTPL and finally discharged into Sea through outfall channel of APSEZ.	Will be complied once project takes off.
17.	Overall water loses in the Poly-silicon Manufacturing Plant shall be 1,200 KLD i.e. (500 KLD evaporation loss in ETP, 150 KLD from etching and scrubbing, 250 loss from cleaning and cutting, 200 KLD. loss from Filtration, 100 KLD loss from Neutralization Pit)	Noted.
18.	Domestic wastewater generation shall not exceed 48 KL/Day and it shall be treated in proposed STP (Primary, Secondary & Tertiary) and treated sewage shall be reused for Greenbelt development; gardening & Plantation within premises.	
19.	Unit shall provide adequate effluent treatment plant (ETP) sewage treatment plant (STP), Neutralization Pit & Filtration System for treatment of industrial effluent and it shall be operated regularly and efficiently so as to achieve the GPCB/ CPCB/ MoEF & CC norms.	MSL has proposed adequate capacity of ETP & STP for treating effluent and domestic Waste water respectively.

20.					Com		əssu	red once project takes o	ff.		
21.	, , , , , , , , , , , , , , , , , , , ,			Will t		lied	once project takes off.				
22.					Will t		lied	once project take off.			
A. 3.	Α	IR:									
23.	U	nit sh	all not exceed	fuel consi	imption fo	r stand-h	v DG s	et as me	ontin	ned below:	
		Sr	Source of emission with capacity	Stack	Type of fuel	Quantity of Fuel MT/Day	Тур	pe of ission		APCM	
		1.	D. G. Set (125 KVA)	30.00	HSD 2	25 L/hr.		₅, PM ₁₀ , , NOx		Adequate Stack Height, Jlation, Filter and Acousti Enclosure	с
24.			all provide action sources a	•		flue gas				red the proposed APCM a ted once project takes o	
25.		enera	tion sources a	•	•	Ū	will t	pe imple	men	red the proposed APCM ted once project takes o	
		Sr No 1.	Specific	Source of E		Stack h in me 1 30.	eter	Type emissi		APCM	
		2. 3. 4.	TC Chlorosila	S Purificati ane Waste f	on Recovery	30. 30. 30. 30.	0 0	H2, H(CL2, N		Venturi Wet-Scrubber System	
26.	4.CVD Reactor Off-Gas recovery30.0Unit shall provide Continuous Emission Monitoring System [CEMS] as per the CPCB guidelines					Will t MSL Emis	has p	ropo: onito	lonce project takes off. sed to install Continu ring System [CEMS] as nes.		
27.		nit s quire	hall provide d	adequate	flaring sy	vstem, lf	Note	ed.			
28.	sł th	nall be ne st	itive emission e monitored. T andards pre ties from tim	The emissic scribed b	on shall co y the co	nform to oncerned	fugit			propriate measure to con s.	trol

	Industrial Safety & Health). Following indicative	
	guidelines shall also be followed to reduce the	
	fugitive emission.	
	> Internal roads shall be either concreted or	
	asphalted or paved properly to reduce the	
	fugitive emission during vehicular movement.	
	> Air borne dust shall be controlled with water	
	sprinklers at suitable locations in the plant.	
	> A green belt shall be developed all around the	
	plant boundary and also along the roads to	
	mitigate fugitive & transport dust emission	
29.	Regular monitoring of Volatile Organic Compounds	Compliance assured once project takes off.
	(VOCs) shall be carried out in the work zone area	
	and ambient air.	
30.	For control of fugitive emission, VOCs, following	Noted.
	steps shall be followed:	MSL has proposed closed handling and
	a. Closed handling and charging system shall be	charging system for chemicals & reactors.
	provided for chemicals	
	b. Reflux condenser shall be provided over	
	Reactors / Vessels.	
	c. Pumps shall be provided with mechanical seals	
	to prevent leakages.	
31.	Air borne dust at all transfers operations/ points	Noted.
	shall be controlled either by spraying water or	
	providing enclosures.	dust by taking appropriate measures once
		project get started.
32.	Regular monitoring of ground level concentration	The proposed project is under the Electronic
	of PM2.5, PM10, S02, NOX, HCI, CI2, H2 & VOC shall	Manufacturing Cluster (EMC) premises
	be carried out in the impact zone and its records	within APSEZ a Mundra, Kutch.
	shall be maintained. Ambient air quality levels shall	Regular monitoring of ground level
	not exceed the standards stipulated by the GPCB.	concentration of $PM_{2.5}$, PM_{10} , SO_2 , NO_X , is
	If at any stage these levels are found to exceed the	
	prescribed limits, necessary additional control	reports are maintained.
	measures shall be taken immediately. The location	•
	of the stations and frequency of monitoring shall be	
	decided in consultation with the GPCB	

A. 4.	SOLID / HAZARDOUS WASTE	
33.	All the hazardous waste management shall be taken	Agreed.
	care as mentioned below	Compliance assured once project takes off.

	Sr. No	Types of Hazardous Waste	Specific Source of generation	Category		antity Annum)	Management of Disposal
	1	Chemical Sludge	From process, ETP, Scrubber	35.3	13870 1	Ton/Year	Disposal at the approved Common TSDF site (will explore feasibility to use as Raw material & re-process)
	2	Discarded Containers	Material Storage and Handing	33.1	1200 N	No./Year	Will be sell to registered recycler for recycling
	3	Used oil	Machinery & D.G. Set	5.1	20 K	L/Year	Will be sell to registered recycler for recycling
	4	Oil Soaked Cotton waste & residue	Washing Floor, Machinery maintenance	33.2	1500	kg/Year	Co-incineration & reuse
	5	Graphite Parts	CVD Reactors	B2010	3.0 M	\T/Year	To recycler/re-user as raw material
	6	Waste Silicon	Process reactors	B1010	15 M	T/Year	TSDF & will explore feasibility to use as Raw material & re-process
	7	Spent Activated Carbon	H ₂ Plant	A4160	0.25 N	∧T/Year	TSDF & re-process
	8	Filters	Purification Process	36.2	0.25 N	ΛT/Year	TSDF & re-user
A. 5.	concerned authorities under the Rule 9 of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016.MSL will take due care that Authorize end-users shall have permissions fro the concerned authorities.OTHER:					rs shall have permissions from	
35.	The project proponent shall allocate the separate fund of Rs. 36.905 Cr i.e. 0.5 % of the capital investment (whichever is applicable) for activities like Educational activities, Public Health and family welfare and Preservation of Environment, rain water harvesting under Corporate Environment Responsibility (CER) in accordance to the MoEF&CC's Office Memorandum No. F.No.22-65/2017-IA.1II dated 01/05/2018. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MoEF&CC as a part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.Noted.MSL has proposed separate fund of Rs 36.905 Cr i.e. 0.5 % of the capital investment (Whichever is applicable) for activities like Educational activities under Corporate Environment, rain water harvesting under Corporate Environment Responsibility (CER) in accordance to the MoEF&CC Office Memorandum No. F.No.22-65/2017-IA.1						
36.	All the recommendations, mitigation measures, Agreed & will be taken care off. environmental protection measures and safeguards proposed in the EIA report of the project prepared by Wolchem India Limited and submitted by project proponent and commitments made during presentation before SEAC and proposed in the EIA report shall be strictly adhered to in letter and spirit.			& will be taken care off.			
В.	GENERA	L CONDITIONS	6		1		
B. 1	CONSTR	RUCTION PHAS	E				

77	Mator domand during apparentice shall be reduced by	Notod
37.	Water demand during construction shall be reduced by use of curing agents, super plasticizers and other best construction practices	Noted. Compliance assured once project takes off.
38.		
50.	Project proponent shall ensure that surrounding	Noted.
	environment shall not be affected due to construction	Will be complied once project takes off.
	activity. Construction materials shall be covered during	MSL will take appropriate measure to
	transportation and regular water sprinkling shall be	control fugitive emissions.
	done in vulnerable areas for controlling fugitive	
	emission.	
39.	All required sanitary and hygienic measures shall be	Noted.
	provided before starting the construction activities and	Will be complied once project takes off.
	to be maintained throughout the construction phase.	
40.	First Aid Box shall be made readily available in adequate	EMC premises already has a well-
	quantity at all the times.	established Primary First Aid center.
41.	The project proponent shall strictly comply with the	Noted.
	Building and other Construction Workers' (Regulation of	Will be complied once project takes off.
	Employment & Conditions of Service) Act 1996 and	
	Gujarat rules made there under and their subsequent	
	amendments. Local byelaws of concern authority shall	
	be complied in letter and spirit.	
42.	Ambient noise levels shall conform to residential	Noted and will be complied.
	standards both during day and night. Incremental	Regular Noise monitoring reports
	pollution load on the ambient air and noise quality shall	showing noise quality below prescribed
	be closely monitored during construction phase.	standard are attached as Annexure I
43.	Use of Diesel Generator (DG) sets during construction	Will be complied once project takes off.
121	phase shall be strictly equipped with acoustic enclosure	
	and shall conform to the EPA Rules for air and noise	
	emission standards.	
44.	Safe disposal of waste water and municipal solid wastes	Noted.
	generated during the construction phase shall be	
	ensured.	water and municipal solid wastes.
45.	All topsoil excavated during construction activity shall	Noted.
49.		
	be used in horticultural/landscape development within	Will be complied once project takes off.
10	the project site.	
46.	Excavated earth to be generated during the	
	construction phase shall be utilized within the premises	The proposed area for the project is
	to the maximum extent possible and balance quantity	almost flat. However, MSL will ensure to
	of excavated earth shall be disposed off with the	utilize excavated earth in filling &
	approval of the competent authority after taking the	surface leveling.
	necessary precautions for general safety and health	
	aspects. Disposal of the excavated earth during	
	construction phase shall not create adverse effect	
	neighboring communities	
47.	Project proponent shall ensure use of eco-friendly	Noted.
47.		Noted. Compliance assured once project takes
47.	Project proponent shall ensure use of eco-friendly	

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57.	Hazardous wastes shall be dried, packed and stored in separate designated hazardous waste storage facility with pucca bottom and leachate collection facility, before its disposal.	
58.	The unit shall obtain necessary permission from the nearby TSDF site and CHWIF. (Whichever is applicable)	Agreed and will be complied once project takes off.
59.	Trucks/Tankers used for transportation of hazardous waste shall be in accordance with the provisions under the Motor Vehicle Act, 1988, and rules made there under	Compliance assured once project takes off.
60.	The design of the Trucks/tankers shall be such that there is no spillage during transportation	Noted.
61.	All possible efforts shall be made for Co-Processing of the Hazardous waste prior to disposal into TSDF/CHWIF.	MSL will make efforts to reuse/reutilize Hazardous waste prior to disposal.
62.	Management of fly ash (If any) shall be as per the Fly ash Notification 2009 & its amendment time to time and it shall be ensured that there is 100% utilization of fly ash to be generated from the unit.	Noted.
B. 2.4	SAFETY	
63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	Noted & Agreed.
64.	The project authorities shall strictly comply with the provisions made in Manufacture. Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended time to time and the Public Liability Insurance Act for handling of hazardous chemicals etc. Necessary approvals from the Chief Controller of Explosives and concerned Govt. Authorities shall be obtained before commissioning of the project. Requisite On-site and Off- site Disaster Management Plans have to be prepared and implemented.	Compliance assured once project takes off.
65.	Main entry and exit shall be separate and clearly marked in the facility	Noted.
66.	Sufficient peripheral open passage shall be kept in the margin area for free movement office tender/ emergency vehicle around the premises	Noted and Agreed.
67.	Storage of flammable chemicals shall be sufficiently away from the production area.	Noted and Agreed. Will be complied once project takes off.
68.	Sufficient number of fire extinguishers shall be provided near the plant and storage area	Noted and Agreed. Will be complied once project takes off.
69.	All necessary precautionary measures shall be taken to avoid any kind of accident storage and handling of toxic / hazardous chemicals	Noted and Agreed.
70.	All the toxic/hazardous chemicals shall be stored in optimum quantity and all necessary permissions in this	Noted.

	regard shall be obtained before commencing the expansion activities.	
71.	The project management shall ensure to comply with all the environment protection measures, risk mitigation measures and safeguards mentioned in the Risk Assessment report.	Noted and Agreed.
72.	Only flame proof electrical fittings shall be provided in the plant premises	Agreed. Flame proof electric fitting will be considered during designing
73.	Storage of hazardous chemicals shall be minimized and it shall be in multiple small capacity tanks / containers instead of one single large capacity tank / containers.	Noted and Agreed.
74.	All the storage tanks shall be fitted with appropriate controls to avoid any leakages. Bund/dyke walls shall be provided for storage tanks for Hazardous chemicals	Noted and Agreed.
75.	Handling and charging of the chemicals shall be done in closed manner by pumping or by vacuum transfer so that minimal human exposure occurs.	Noted. MSL has proposed closed handling and charging system for chemicals & reactors.
76.	Tie up shall be done with nearby health care unit / doctor for seeking immediate medical attention in the case of emergency.	Noted and Agreed.
77.	Personal Protective Equipments (PPEs) shall be provided to workers and its usage shall be ensured and supervised.	Noted and Agreed. Appropriative actions will be taken for safety of manpower.
78.	First Aid Box and required antidotes for the chemicals used in the unit shall be made readily available in adequate quantity.	Noted.
79.	Training shall be imparted to all the workers on safety and health aspects of chemicals handling	Agreed. Compliance assured once project takes off.
80.	Occupational health surveillance of the workers shall be done and its records shall be maintained. Pre- employment and periodical medical examination for all the workers shall be undertaken as per the Factories Act & Rules.	-
81.	Transportation of hazardous chemicals shall be done as per the provisions of the Motor Vehicle Act & Rules.	Agreed.
82.	The company shall implement all preventive and mitigation measures suggested in the Risk Assessment Report.	Agreed. MSL will implement preventive and mitigation measures as mentioned in Risk Plan.
83.	Necessary permissions from various statutory authorities like PESO, Factory Inspectorate and others shall be obtained prior to commissioning of the project.	Compliance assured.
B. 2.5	NOISE:	
84.	The overall noise level in and around the plant area shall	Noted and will be complied during

	control measures including Engineering controls like acoustic insulation hoods, silencers, enclosures, etc. on	
	all sources of noise generation. The ambient noise level	
	shall confirm to the standards prescribed under The	
	Environment (Protection) Act, 1986 & Rules.	
B. 2.6	CLEANER PRODUCTION AND WASTE MINIMISATION:	
85.	The unit shall undertake the Cleaner Production	Noted.
	Assessment study through a reputed institute /	
	organization and shall form a CP team in the company.	off
	The recommendations thereof along with the	
	compliance shall be furnished to the	
	GPCB.	
86.	The company shall undertake various waste	Noted and will be considered during
	minimization measures such as :	operation phase.
	a. Metering and control of quantities of active	
	ingredients to minimize waste.	
	b. Reuse of by-products from the process as raw	
	materials or as raw materials substitutes.	
	c. Use of automated and close filling to minimize spillages	
	d. Use of close feed system into batch reactors	
	e. Venting equipment through vapour recovery system	
	f. Use of high pressure hoses for cleaning to reduce	
	wastewater generation	
	g. Recycling of washes to subsequent batches	
	h. Recycling of steam condensate	
	i. Sweeping 1 mopping of floor instead of floor	
	washing to avoid effluent generation	
	j. Regular preventive maintenance for avoiding	
	leakage, spillage etc.	
B. 2.7	GREEN BELT AND OTHER PLANTATION:	
87.	The unit shall develop green belt within premises as per	
	the CPCB guidelines. However, if the adequate land is	off.
	not available within the premises, the unit shall take up	
	adequate plantation on road sides and suitable open	
	areas in GIDC estate or any other open areas in consultation with the GIDC / GPCB and submit an action	
	plan of plantation for next three years to the GPCB.	
88.	Drip irrigation / low-volume, low-angle sprinkler system	Compliance assured once project takes
	shall be used for the green belt development within the	off.
	premises	
B. 3	OTHER CONDITION:	1
89.	Unit shall comply all the applicable standard conditions	Noted and will be complied once project
	prescribed in Office Memorandum (OM) published by	
	MoEF&CC vide no. F. No. 22-34/2018-IA.III dated	
	09/08/2018.	

90.	The project proponent shall allocate the separate fund for Corporate Environment Responsibility (CER) in accordance to the MoEFCC's Office Memorandum No. F.No.22-65/2017-IA.III dated 01/05/2018 to carry out the activities under CER in affected area around the project. The entire activities proposed under CER shall be monitored and the monitoring report shall be submitted to the regional office of MOEFCC as part of half-yearly compliance report and to district collector. The monitoring report shall be posted on the website of the project proponent.	
91.	runoff shall be undertaken and the same water shall be used for the various activities of the project to conserve fresh water as well as recharge ground water. Before recharging the surface runoff, pre-treatment must be done to remove suspended matter.	Compliance assured once project takes off.
92.	The unit shall join and participate financially and technically for any common environment facility / infrastructure as and when the same is taken up either by the industrial Association or GIDC or any such authority created for this purpose by the Govt. / GIDC	
93.	Application of solar energy shall be incorporated for illumination of common areas, lighting for gardens and street lighting in addition the provision for solar water heating system shall also be provided.	MSL will explore the feasibility of using
94.	The area earmarked as green area shall be used only for plantation and shall not be altered for any other purpose.	Noted and Agreed.
95.	All the commitments / undertakings given to the SEAC during the appraisal process for the purpose of environmental protection and management shall be strictly adhered to.	
96.	The project proponent shall also comply with any additional condition that may be Imposed by the SEAC or the SEIAA or any other competent authority for the purpose for the environmental protection and management	
97.	In the event of failure of any pollution control system adopted by the unit, the unit shall be safely closed down and shall not be restarted until the desired efficiency of the control equipment has been achieved.	-
98.	The project authorities must strict adhered to the stipulations made by the Gujarat Pollution Control Board (GPCB), State Government and any statutory Authority.	

00	Dusing material transfer there shall be as spillages and	Noted and Ascord
99.	During material transfer there shall be no spillages and	Noteo ano Agreeo.
	garland drain shall be constructed to avoid mixing of	
	accidental spillages with domestic wastewater or storm	
100	water.	Compliance provide a conjugate to large
100.	Pucca flooring / impervious layer shall be provided in the	
	work areas, chemical storage areas and chemical	off.
101	handling areas to minimize soil contamination.	
101.	Leakages from pipes, pumps shall be minimal and if	
100	occurs, shall be arrested promptly.	off.
102.	No further expansion or modifications in the plant likely	Noted and Agreed.
	to cause environmental impacts shall be carried out	
	without obtaining prior Environment Clearance from the	
	concerned authority.	
103.	The above conditions will be enforced, inter-alia under	•
	the provisions of the Water (Prevention & Control of	project takes off.
	Pollution) Act, 1974, Air (Prevention~& Control of	
	Pollution) Act, 1981, the Environment (Protection) Act,	
	1986, Hazardous Wastes (Management, Handling and	
	Transboundary Movement) Rules, 2008 and the Public	
	Liability Insurance Act, 1991 along with their	
	amendments and rules.	
104.	The project proponent shall comply all the conditions	
	mentioned in "The Companies (Corporate Social	project takes off.
	Responsibility Policy) Rules, 2014" and its amendments	
	from time to time in a letter and spirit.	
105.	The project management shall ensure that unit	Agreed and will be complied once
	complies with all the environment protection measures,	project takes off.
	risk mitigation measures and safeguards recommended	
	in the EMP report and Risk Assessment study report as	
	well as proposed by project proponent.	
106.	The project authorities shall earmark adequate funds to	Noted and Agreed
	implement the conditions stipulated by SEIAA as well as	
	GPCB along with the implementation schedule for all	
	the conditions stipulated herein. The funds so provided	
	shall not be diverted for any other purpose.	
107.	The applicant shall inform the public that the project	Complied.
	has been accorded environmental clearance by the	MSL has published the advertisement in
	SEIAA and that the copies of the clearance letter are	one English language newspaper "The
	available with the GPCB and may also be seen at the	INDIAN EXPRESS, Ahmedabad" (Page 3)
	Website of SEIAAI SEAC/GPCB. This shall be advertised	and one local language Gujarati
	within seven days from the date of the clearance letter,	newspaper "KUTCH MITRA, Bhuj" (Page
	in at least two local newspapers that are widely	5) dated 18 th September 2019.
	circulated in the region, one of which shall be in the	Clippings of newspaper advertisement
	Gujarati language and the other in English. A copy each	already submitted in compliance report
	of the same shall be forwarded to the concerned	of October'2019 – March'2020
	Regional Office of the Ministry.	
	· · ·	

100	It shall be mondation, for the ansient monagement to	Notod
108.	It shall be mandatory for the project management to submit half-yearly compliance report in respect of the	
	stipulated prior environmental clearance terms and	
	conditions in soft copies to the regulatory authority	
	concerned, on 1 st June and 1 st December of each	
	calendar year.	
109.	Concealing factual data or submission of	Noted & Agreed.
	false/fabricated data and failure to comply with any of	
	the conditions mentioned above may result in	
	withdrawal of this clearance and attract action under	
	the provision of Environment (Protection) Act, 1986.	
110.	The project authorities shall also adhere to the	Noted & Agreed.
	stipulations made by the Gujarat Pollution Control	
	Board.	
111.	The SEIAA may revoke or suspend the clearance, if	Noted & Agreed.
	implementation of any of the above conditions is not	
110	found satisfactory.	
112.	The company in a time bound manner shall implement these conditions. The SEIAA reserves the right to	Noteo & Agreed.
	stipulate additional conditions, if the same is found	
	necessary.	
113.	The project authorities shall inform the GPCB, Regional	Noted & will be informed in time.
	Office. MoEF and SEIAA about the date of financial	
	closure and final approval of the project by the	
	concerned authority and date of start of project.	
114.	This environmental clearance is valid for seven years	Noted & Agreed.
	from, the date of Issue	
115.	Any appeal against this environmental/clearance shall	Noted & Agreed.
	lie with the National Green tribunal, within a period of	
	30 days as prescribed under Section 16 of the National	
	Green Tribunal Act, 2010	
116.	Submission of any false or misleading information or	Noted & Agreed.
	data which is material to screening or scoping or	
	appraisal or decision on the application makes this	
	environment clearance cancelled.	

Environmental Monthly Report May'2020

1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: May - 2020 FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh&Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India. Phone : +91 260 2433966 / 2425610

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TEST	REPORT	

TEST REP	ORT

(AMBIENT AIR MONITORING)					
Test Report No.:	URAL/2	0/05/MSPVL/A-001	Report Issue Date	25/05/2020	
Service Request form No.:	UERL/A	R/SRF/05/A-001	Service Request Date	07/05/2020	
Sample ID No.:	UERL/A	R/ID/A-20/05/001	Field Data Sheet No.	UERL/AIR/FDS/A-20/05/001	
Name & Add. of Customer		ndra Solar PV Limited andh & Tunda, Taluka Mւ	undra,		
	Mundra,	Kutch 370 435, Gujarat. I	ndia.		
Dates of Sampling : 07/05/2020 Date of Testing 15/05/2020					
Location of Sampling / Monitor	ing:	Near Canteen Area.	·		
Sampling Method	Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)				

Details of Master Instrument Used for Monitoring \geqslant

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013, 1127-DTJ-2012	19/01/2020	19/01/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	21/04/2019	19/04/2021

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24
2.	Flow Rate of PM ₁₀	m³/min	1.28
3.	Volume of Air Sampled for PM ₁₀	m ³	1843.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results

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Sr. No.	Test Parameter	Unit	Result	Specific Value(As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	68	100
2.	Particulate Matter PM _{2.5}	µg/m³	26	60
3.	Sulphur Dioxide	µg/m³	12.1	80
4.	Nitrogen Dioxide	µg/m³	14.3	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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OHSAS18001:2007 - | |) Certified Company

ISO 9001:2015 Certified Company

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(AMBIEN	T AIR	MONITO	DRING)

Test Report No.:	URAL/20/05/MSPVL/A-002 Report Issue Date 25/05/2020				
Service Request form No.:	UERL/AI	RL/AIR/SRF/05/A-002 Service Request Date 07/05/2020			
Sample ID No.:	UERL/AI	R/ID/A-20/05/002	Field Data Sheet No.	UERL/AIR/FDS/A-20/05/002	
Name & Add. of Customer	M/s. Mu	ndra Solar PV Limited			
	Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.				
	iviuliura,	Kuten 370 435; Gujarat. Int			
Dates of Sampling :	07/05/2020 Date of Testing 15/05/2020			15/05/2020	
Location of Sampling / Monito	ion of Sampling / Monitoring: Near ETP Guard Basin (MSTPL)				
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)			

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date			
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021			
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	08/07/2019	08/07/2020			
General Sampling / Monitoring Observation as per CPCB Guideline							

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Description Unit of measurement	
1.	Monitoring Duration	Н	24.10
2.	Flow Rate of PM ₁₀	m³/min	1.26
3.	Volume of Air Sampled for PM ₁₀	m ³	1821.96
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.14

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value(As per NAAQMS)
1.	Particulate Matter PM ₁₀	μg/m³	62	100
2.	Particulate Matter PM _{2.5}	µg/m³	22	60
3.	Sulphur Dioxide	µg/m³	10.4	80
4.	Nitrogen Dioxide	µg/m³	14.2	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)							
Test Report No.:	URAL/20/0	URAL/20/05/MSPVL/A-003 Report Issue Date 25/05/2020					
Service Request form No.:	UERL/AIR/S	UERL/AIR/SRF/05/A-003 Service Request Date 07/05/2020					
Sample ID No.:	UERL/AIR/I	UERL/AIR/ID/A-20/05/003 Field Data Sheet No. UERL/AIR/FDS/A-20/05/00					
Name & Add. of Customer							
Dates of Sampling :	07/05/2020 Date of Testing 15/05/2020						
Location of Sampling / Monitoring: Near Occupational Health Center.							
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)							

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1745-DTB-2013, 1151-DTB-2013	19/01/2020	19/01/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	129-DTB-2013	08/07/2019	08/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	н	23.45
2.	Flow Rate of PM ₁₀	m³/min	1.22
3.	Volume of Air Sampled for PM ₁₀	m ³	1716.54
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.49
	Test Parameter Results		

Test Parameter Results

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Sr. No.	Test Parameter	Unit	Result	Specific Value(As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	58	100
2.	Particulate Matter PM _{2.5}	µg/m³	18	60
3.	Sulphur Dioxide	µg/m³	8.9	80
4.	Nitrogen Dioxide	µg/m³	12.4	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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TEST REPORT (AMBIENT AIR MONITORING)

(AMBIENT AIR MONITORING)				
Test Report No.:	URAL/20/0	5/MSPVL/A-004	Report Issue Date	25/05/2020
Service Request form No.:	UERL/AIR/S	UERL/AIR/SRF/05/A-004 Service Request Date 08/05/2020		
Sample ID No.:	UERL/AIR/I	D/A-20/05/004	Field Data Sheet No.	UERL/AIR/FDS/A-20/05/004
Name & Add. of Customer	Name & Add. of Customer M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling :	08/05/2020		Date of Testing	15/05/2020
Location of Sampling / Monito	oring:	Near Village Van	dh	·
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date	
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021	
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	08/07/2019	09/07/2020	
> General Sampling / Monitoring Observation as per CPCB Guideline					

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	23.55
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m ³	1836.9
4.	Volume of Air Sampled for PM _{2.5}	m³ o −	23.59

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	76	100
2.	Particulate Matter PM _{2.5}	µg/m³	34	60
3.	Sulphur Dioxide	µg/m³	16.3	80
4.	Nitrogen Dioxide	µg/m³	14.8	80

Sampling Done By:

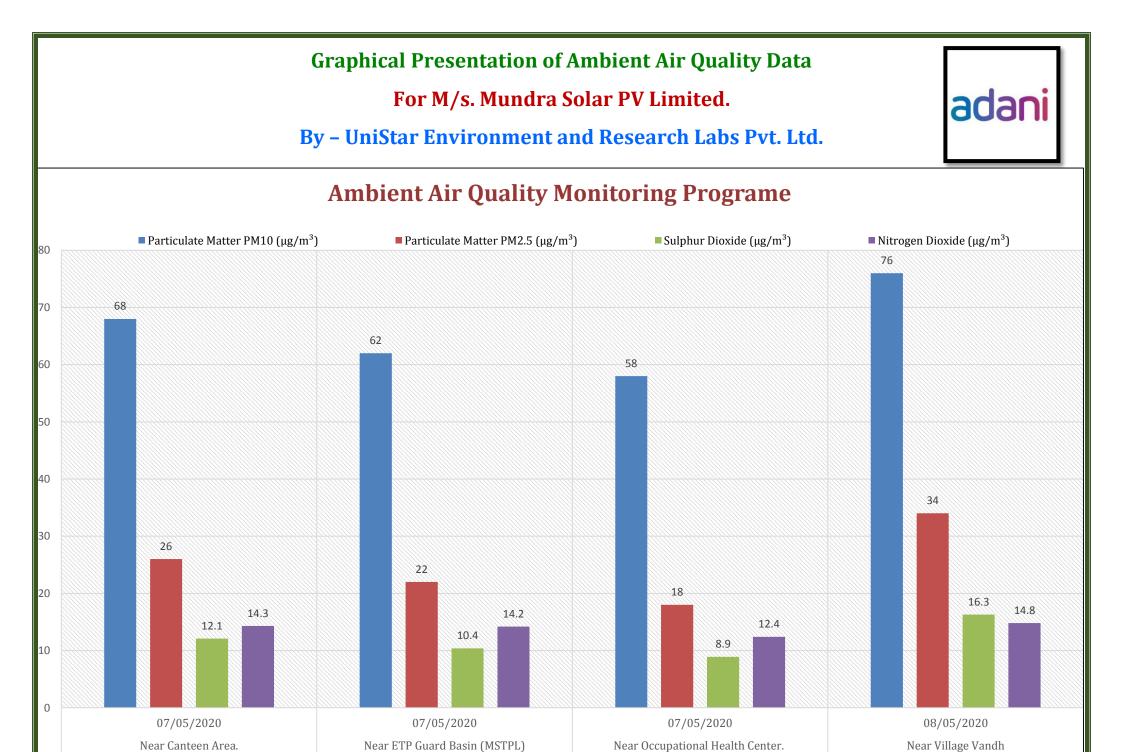
(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



3.0 NOISE LEVEL MONITORING REPORT



Period: May - 2020

FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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NOISE LEVEL MONITORING REPORT

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Test Report No.:	UERL/20/05/MSPVL/N-001	Date Of Report:	25/05/2020	
Name & Add. Of Industries	M/s. Mundra Solar PV Limited			
	Village Vandh&Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			

> Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	31/01/2020	30/01/2021
Sampling Method.	CPCB Guideline			

Date of Monitoring : 07/05/2020

Result

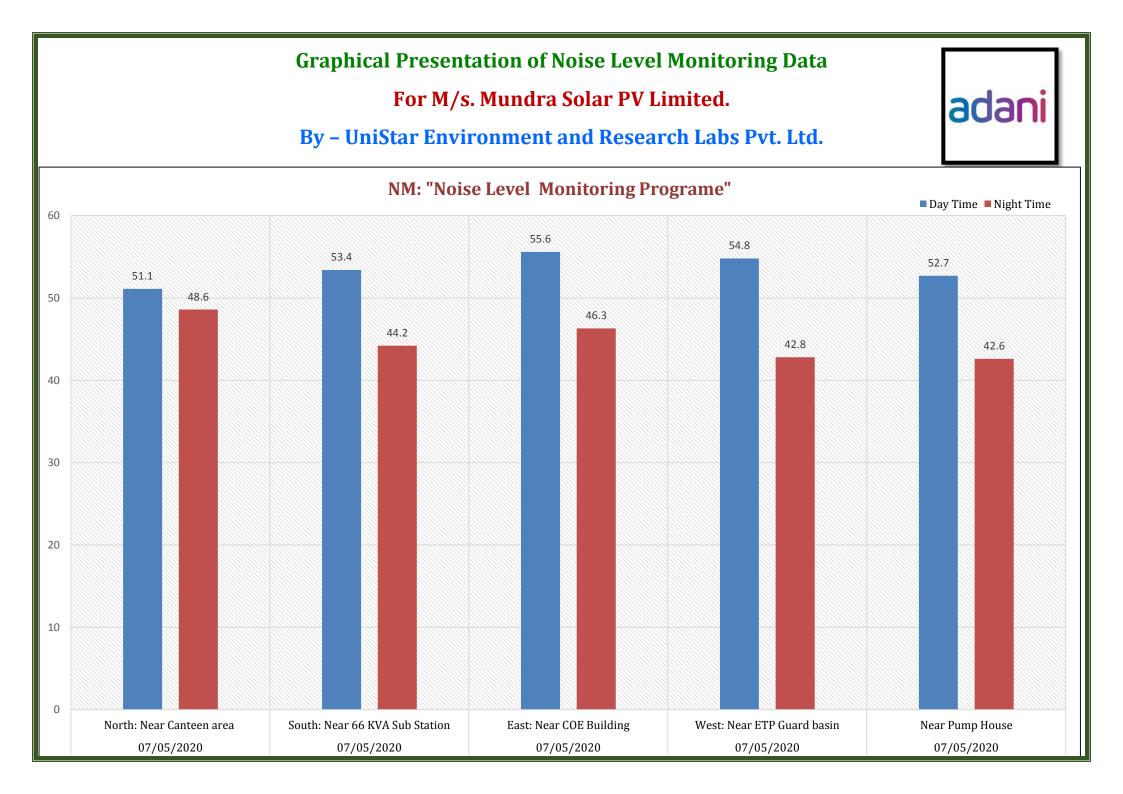
Sr.	Location within company premises		e Level B(A)	Permissible Limit CPCB	
No.		Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	51.1	48.6	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	53.4	44.2	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	55.6	46.3	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	54.8	42.8	<75 dB(A)	<70 dB(A)
5.	Near Pump House Environment and	52.7	42.6	<75 dB(A)	<70 dB(A)

Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

Amar Carla	Category of Area/Zone	Limit in dB (A) Leq		
Area Code		Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
(A)	Industrial area	75	70	
(B)	Commercial area	65	55	
(C)	Residential area	55	45	
(D)	Silence Zone	50	40	

Checked By

Page No.17



Environmental Monthly Report June'2020

1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: June - 2020 FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh&Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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Email : response@uerl.in Website : www.uerl.in



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Test Report No.:	URAL/20	/06/MSPVL/A-001	Report Issue Date	30/06/2020	
Service Request form No.:	UERL/AIF	R/SRF/06/A-001	Service Request Date	19/06/2020	
Sample ID No.:	UERL/AIF	R/ID/A-20/06/001	Field Data Sheet No.	UERL/AIR/FDS/A-20/06/001	
Name & Add. of Customer	M/s. Mun	dra Solar PV Limited			
	Village Va	Village Vandh & Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.				
Dates of Sampling :	19/06/20)20	Date of Testing	23/06/2020	
Location of Sampling / Monito	ring:	Near Canteen Area	•	•	
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)					
Details of Master Inst	rumont I Icod	for Monitoring			

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013, 1127-DTJ-2012	19/01/2020	19/01/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	21/04/2019	19/04/2021

General Sampling / Monitoring Observation as per CPCB Guideline

11

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24
2.	Flow Rate of PM ₁₀	m³/min	1.32
3.	Volume of Air Sampled for PM ₁₀	m Research am ³ PV	1900.8
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04
2	Test Parameter Results		

Test Parameter Results

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Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	66	100
2.	Particulate Matter PM _{2.5}	µg/m³	22	60
3.	Sulphur Dioxide	µg/m³	10.2	80
4.	Nitrogen Dioxide	µg/m³	12.4	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)

Test Report No.:	URAL/20)/06/MSPVL/A-002	Report Issue Date	30/06/2020
Service Request form No.:	UERL/AIF	R/SRF/06/A-002	Service Request Date	19/06/2020
Sample ID No.:	UERL/AI	UERL/AIR/ID/A-20/06/002 Field Data Sheet No. UERL/AIR/FDS/A-20/06/002		
Name & Add. of Customer	M/s. Mundra Solar PV Limited			
	Village Vandh & Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling :	19/06/2020 Date of Testing 23/06/2020			
Location of Sampling / Monitor	ing: Near ETP Guard Basin (MSTPL)			
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021		
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	08/07/2019	08/07/2020		
> General Sampling / Monitoring Observation as per CPCB Guideline						

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	23.50
2.	Flow Rate of PM ₁₀	m³/min	1.24
3.	Volume of Air Sampled for PM ₁₀	m ³	1748.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.54

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	58	100
2.	Particulate Matter PM _{2.5}	μg/m³	21	60
3.	Sulphur Dioxide	μg/m³	12.3	80
4.	Nitrogen Dioxide	μg/m³	15.8	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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<u>TEST REPORT</u>

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Test Report No.:	URAL/20/06	5/MSPVL/A-003	Report Issue Date	30/06/2020
Service Request form No.:	UERL/AIR/SI	RF/06/A-003	Service Request Date	19/06/2020
Sample ID No.:	UERL/AIR/ID)/A-20/06/003	Field Data Sheet No.	UERL/AIR/FDS/A-20/06/003
Name & Add. of Customer	Village Vandh	Solar PV Limited & Tunda, Taluka Mund h 370 435, Gujarat. Inc		
Dates of Sampling :	19/06/2020	, ,	Date of Testing	23/06/2020
Location of Sampling / Monito	ring:	Near Occupational	Health Center.	•
Sampling Method		IS:5182(Part-14) ar	nd IS:5182 (Part-5)	

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1745-DTB-2013, 1151-DTB-2013	19/01/2020	19/01/2021
UERL/AIR/FPS/51	Fine Particulate Sampler	129-DTB-2013	08/07/2019	08/07/2020

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24.05
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m ³	1875.9
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.09
	Test Parameter Results		

Test Parameter Results

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Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	66	100
2.	Particulate Matter PM _{2.5}	µg/m³	18	60
3.	Sulphur Dioxide	µg/m³	11.2	80
4.	Nitrogen Dioxide	µg/m³	16.3	80

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to17.03.2023)

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(AMBIENT AIR MONITORING)				
Test Report No.:	URAL/20/0	6/MSPVL/A-004	Report Issue Date	30/06/2020
Service Request form No.:	UERL/AIR/S	AIR/SRF/06/A-004 Service Request Date 20		20/06/2020
Sample ID No.:	UERL/AIR/II	D/A-20/06/004	Field Data Sheet No.	UERL/AIR/FDS/A-20/06/004
Name & Add. of Customer	Add. of Customer M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling :	20/06/2020	20/06/2020 Date of Testing		23/06/2020
Location of Sampling / Monito	oring:	Near Village Vand	lh	
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date	
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021	
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	08/07/2019	09/07/2020	
General Sampling / Monitoring Observation as per CPCB Guideline					

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24
2.	Flow Rate of PM ₁₀	m³/min	1.28
3.	Volume of Air Sampled for PM ₁₀	m ³	1843.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	82	100
2.	Particulate Matter PM _{2.5}	µg/m³	26	60
3.	Sulphur Dioxide	µg/m³	15.6	80
4.	Nitrogen Dioxide	µg/m³	18.2	80

Sampling Done By:

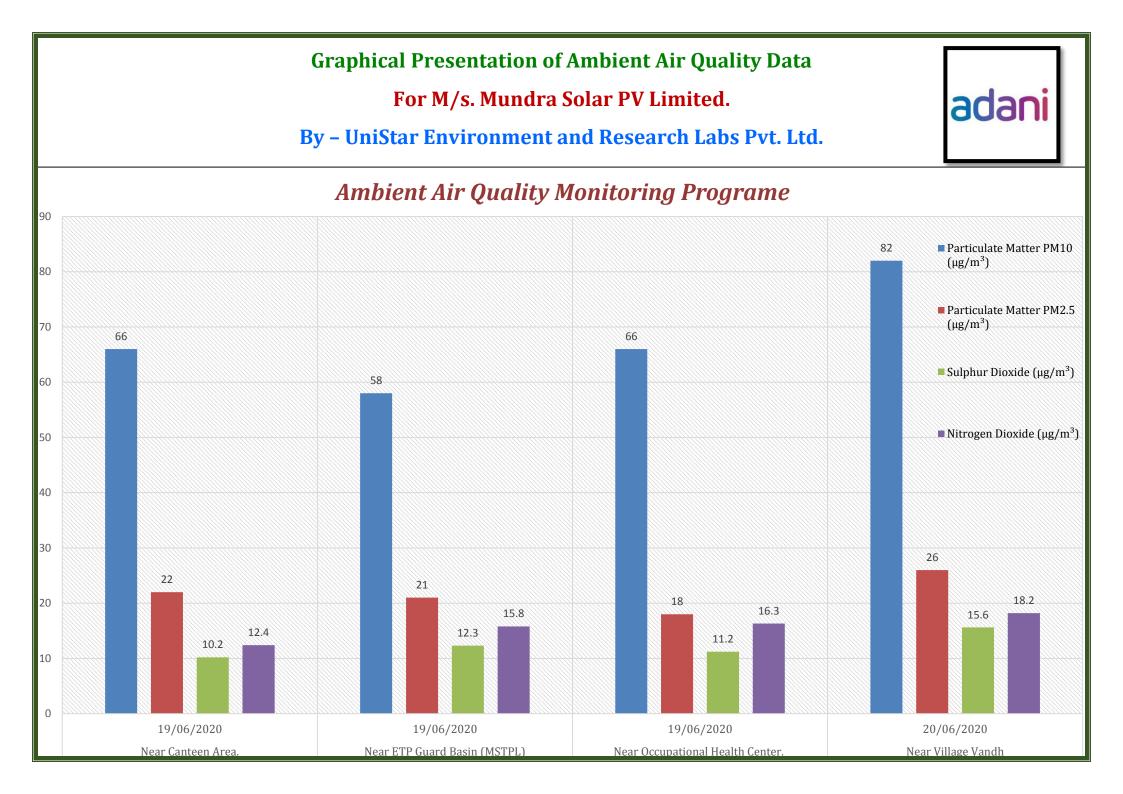
(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



3.0 NOISE LEVEL MONITORING REPORT



Period: June - 2020

FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 (12.01.2020 to17.03.2023)

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Email : response@uerl.in Website : www.uerl.in



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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/06/MSPVL/N-001	Date Of Report:	30/06/2020		
Name & Add. Of Industries	M/s. Mundra Solar PV Limited				
	Village Vandh&Tunda, Taluka Mundra,				
	Mundra, Kutch 370 435, Gujarat. India.				
Details of Instrument Used for Monitoring					

Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	31/01/2020	30/01/2021
Sampling Method.	CPCB Guideline			

Date of Monitoring : 19/06/2020

Result

Sr.	Location within company premises		Noise Level dB(A)		Permissible Limit CPCB	
No.		Day Time	Night Time	Day Time	Night Time	
1.	North: Near Canteen area	52.3	46.8	<75 dB(A)	<70 dB(A)	
2.	South: Near 66 KVA Sub Station	55.8	42.1	<75 dB(A)	<70 dB(A)	
3.	East: Near COE Building	56.3	45.6	<75 dB(A)	<70 dB(A)	
4.	West: Near ETP Guard basin	51.2	44.8	<75 dB(A)	<70 dB(A)	
5.	Near Pump House Environment and	53.4	46.2	<75 dB(A)	<70 dB(A)	

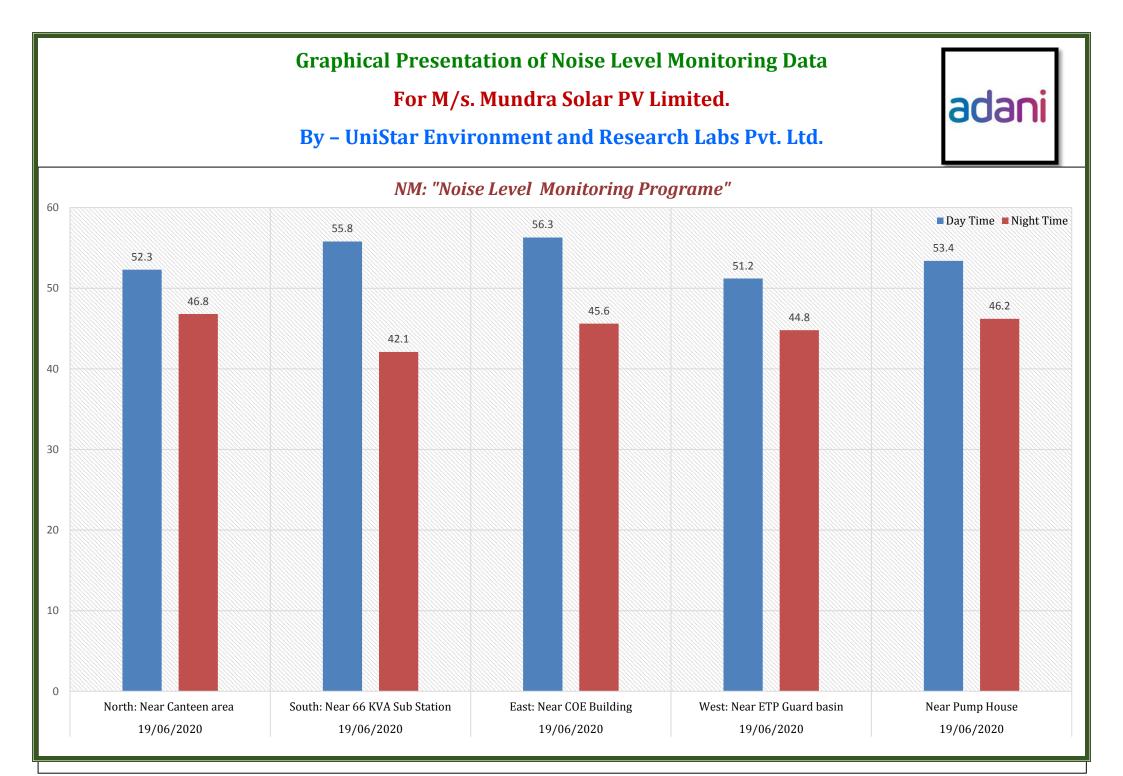
Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

Amar Carla	Cata and a f Ama / 7 and	Limit in dB (A) Leq			
Area Code	Category of Area/Zone	Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)		
(A)	Industrial area	75	70		
(B)	Commercial area	65	55		
(C)	Residential area	55	45		
(D)	Silence Zone	50	40		

Checked By

Page No.24

Authorized By



Environmental Monthly Report July'2020

1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: July - 2020 FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh&Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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TEST REPORT (AMBIENT AIR MONITORING)

			ITORING)		
Test Report No.:	URAL/2	0/07/MSPVL/A-001	Report Issue Date	30/07/2020	
Service Request form No.:	UERL/AI	R/SRF/07/A-001	Service Request Date	24/07/2020	
Sample ID No.:	UERL/AI	R/ID/A-20/07/001	Field Data Sheet No.	UERL/AIR/FDS/A-20/07/001	
Name & Add. of Customer	Village V	M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra,			
	Mundra,	Kutch 370 435, Gujarat.	India.		
Dates of Sampling :	24/07/2	020	Date of Testing	27/07/2020	
Location of Sampling / Monito	ring:	Near Canteen Area			
Sampling Method		IS:5182(Part-14) an	d IS:5182 (Part-5)		
Details of Master Inst	rument Use	d for Monitoring			

Instrument Id No. **Serial Number** Cali. Date Next Cali. Date Instrument Name 1744-DTA-2013, UERL/AIR/RDS/25 **Respirable Dust Sampler** 19/01/2020 19/01/2021 1127-DTJ-2012 UERL/AIR/FPS/51 **Fine Particulate Sampler** 137-DTD-2013 19/04/2021 21/04/2019 \triangleright

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	23.50
2.	Flow Rate of PM ₁₀	m ³ /min	1.30
3.	Volume of Air Sampled for PM ₁₀	and Research (am ³ PV) in Second	1833
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.54

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	68	100
2.	Particulate Matter PM _{2.5}	µg/m³	24	60
3.	Sulphur Dioxide	µg/m³	11.6	80
4.	Nitrogen Dioxide	µg/m³	14.8	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)

Page No.3

UERL/AIR/F-04/00

Regd. Office : 215, Royal Arcade, Near G.I.D.C.Office, Char Rasta, Vapi-396 195, Gujarat, India. Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat. CIN:U73100GJ2007PTC051463



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TEST REPORT

(AMBIENT AIR MONITORING)							
Test Report No.:	URAL/20	URAL/20/07/MSPVL/A-002 Report Issue Date 30/07/2020					
Service Request form No.:	UERL/AII	R/SRF/07/A-002	Service Request Date	24/07/2020			
Sample ID No.:	UERL/AII	UERL/AIR/ID/A-20/07/002 Field Data Sheet No. UERL/AIR/FDS/A-20/07/002					
Name & Add. of Customer	M/s. Mundra Solar PV Limited						
	Village Vandh & Tunda, Taluka Mundra,						
	Mundra, Kutch 370 435, Gujarat. India.						
Dates of Sampling :	24/07/2020		Date of Testing	27/07/2020			
Location of Sampling / Monitor	ing:	Near ETP Guard Basin	(MSTPL)				
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)					

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date	
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021	
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021	
General Sampling / Monitoring Observation as per CPCB Guideline					

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24.05
2.	Flow Rate of PM ₁₀	m³/min	1.28
3.	Volume of Air Sampled for PM ₁₀	m ³	1847.04
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.09

Test Parameter Results \geq

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	μg/m³	66	100
2.	Particulate Matter PM _{2.5}	μg/m³	18	60
3.	Sulphur Dioxide	μg/m³	14.4	80
4.	Nitrogen Dioxide	μg/m³	18.2	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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TEST REPORT (ANDIENIT AID MONITODINIC)

	(A)	MBIENT AIR MO	NITORING)	
Test Report No.:	URAL/20/0	7/MSPVL/A-003	Report Issue Date	30/07/2020
Service Request form No.:	UERL/AIR/S	RF/07/A-003	Service Request Date	24/07/2020
Sample ID No.:	UERL/AIR/II	D/A-20/07/003	Field Data Sheet No.	UERL/AIR/FDS/A-20/07/003
Name & Add. of Customer	Village Vandł	a Solar PV Limited n & Tunda, Taluka Mu ch 370 435, Gujarat. I		
Dates of Sampling :	24/07/2020		Date of Testing	27/07/2020
Location of Sampling / Monit	oring:	Near Occupational Health Center.		
Sampling Method		IS:5182(Part-14)	and IS:5182 (Part-5)	
Details of Menton lus			-	

Details of Master Instrument Used for Monitoring

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date	
UERL/AIR/RDS/22	Respirable Dust Sampler	1745-DTB-2013, 1151-DTB-2013	19/01/2020	19/01/2021	
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	06/07/2020	07/07/2021	
General Sampling / Monitoring Observation as per CPCB Guideline					

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration		24.10
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m kesearen m ³ - M	1879.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.14

Test Parameter Results \geq

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	64	100
2.	Particulate Matter PM _{2.5}	µg/m³	22	60
3.	Sulphur Dioxide	µg/m³	16.8	80
4.	Nitrogen Dioxide	µg/m³	21.1	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)

(AMBIENT AIR MONITORING)						
Test Report No.:	URAL/20/0	7/MSPVL/A-004	Report Issue Date	30/07/2020		
Service Request form No.:	UERL/AIR/S	RF/07/A-004	Service Request Date	25/07/2020		
Sample ID No.:	UERL/AIR/II	D/A-20/07/004	Field Data Sheet No.	UERL/AIR/FDS/A-20/07/004		
Name & Add. of Customer	Name & Add. of Customer M/s. Mundra Solar PV Limited					
	Village Vandh & Tunda, Taluka Mundra,					
	Mundra, Kuto	ch 370 435, Gujarat. I	ndia.			
Dates of Sampling : 25/07/2020			Date of Testing	27/07/2020		
Location of Sampling / Monitoring: Near Village Vandh						
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)						

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date			
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021			
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021			
General Sampling / Monitoring Observation as per CPCB Guideline							

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24
2.	Flow Rate of PM ₁₀	m³/min	1.32
3.	Volume of Air Sampled for PM ₁₀	m ³	1900.8
4.	Volume of Air Sampled for PM _{2.5}	m ³ of the second	24.04

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	86	100
2.	Particulate Matter PM _{2.5}	µg/m³	32	60
3.	Sulphur Dioxide	µg/m³	18.4	80
4.	Nitrogen Dioxide	µg/m³	22.3	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

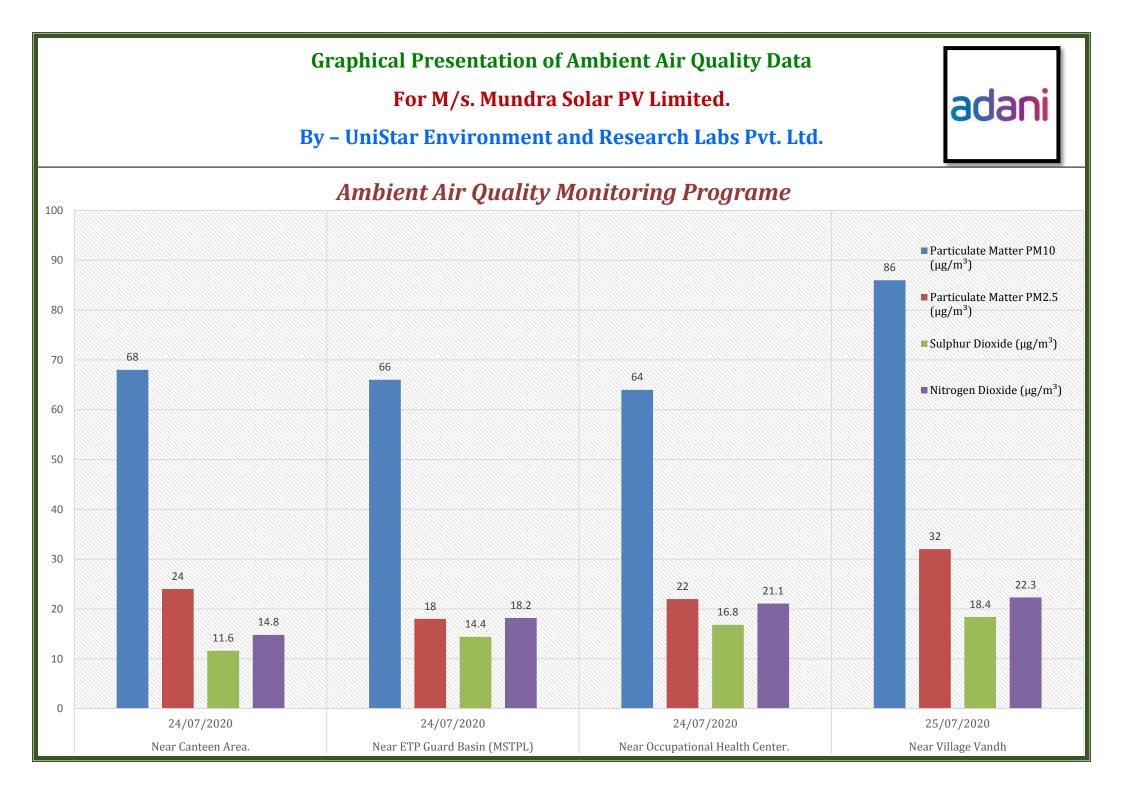


(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)

Page No.6



3.0 NOISE LEVEL MONITORING REPORT



Period: July - 2020

FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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QCI-NABET Accredited EIA Consultant Organization $\begin{array}{l} {\sf GPCB} \ {\sf Recognized} \ {\sf Environmental} \\ {\sf A} \ {\sf u} \ {\sf ditor} \ (\ {\sf S} \ {\sf c} \ {\sf h} \ {\sf e} \ {\sf d} \ {\sf u} \ {\sf le} \ {\sf -II}) \end{array}$

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ISO 45001:2018 Certified Company

NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/07/MSPVL/N-001	Date Of Report:	30/07/2020			
Name & Add. Of Industries	M/s. Mundra Solar PV Limited					
	Village Vandh &Tunda, Taluka Mundra,					
	Mundra, Kutch 370 435, Gujarat. India.					
Details of Instrument Used for Monitoring.						

 Instrument Id No.
 Instrument Name
 Model Number
 Cali. Date
 Next Cali. Date

 UERL/AIR/SLM/Q630838
 Sound Level Meter
 SL 4023 SD
 31/01/2020
 30/01/2021

Date of Monitoring : 25/07/2020

Result

Sampling Method.

Sr.	Location within company premises		e Level 6(A)	Permissible Limit CPCB	
No.		Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	56.8	47.2	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	48.6	42.1	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	55.2	46.6	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	52.6	44.8	<75 dB(A)	<70 dB(A)
5.	Near Pump House Environment and	64.8	56.3	<75 dB(A)	<70 dB(A)

Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

CPCB Guideline

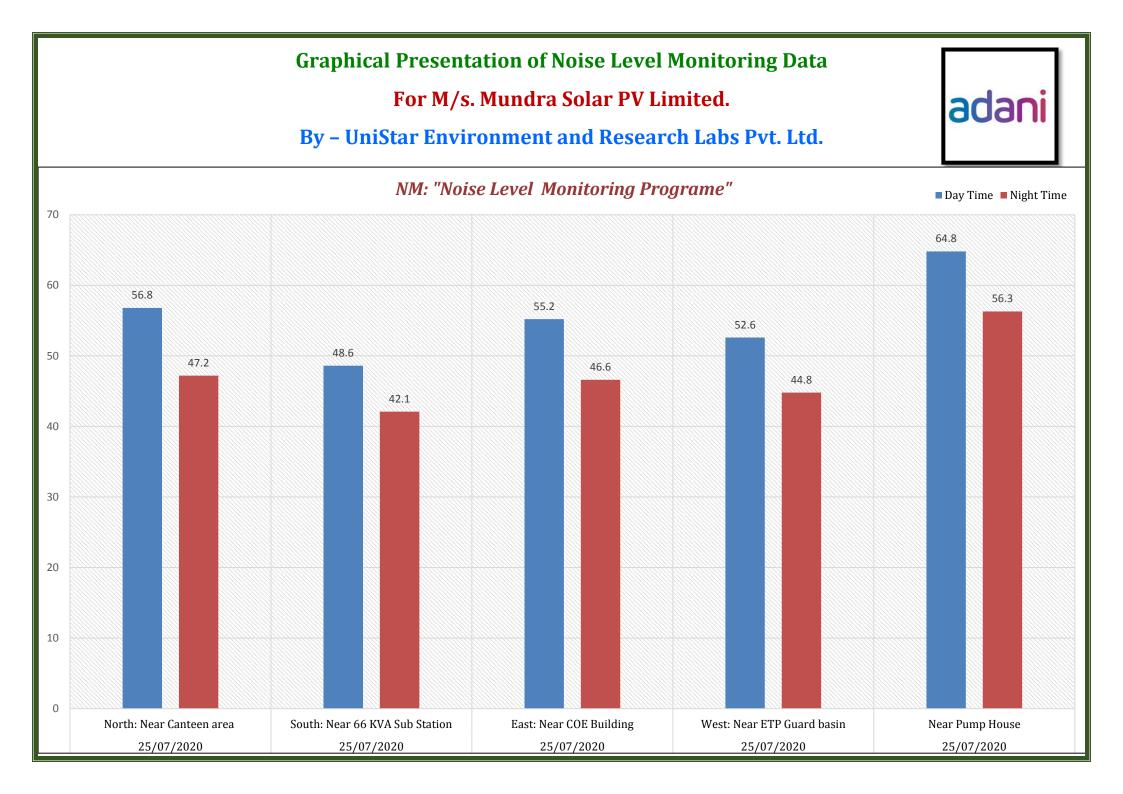
	Coloren of American	Limit in dB (A) Leq			
Area Code	Category of Area/Zone	Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)		
(A)	Industrial area	75	70		
(B)	Commercial area	65	55		
(C)	Residential area	55	45		
(D)	Silence Zone	50	40		

******* End of Report ******

Checked By

Page No.19

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Environmental Monthly Report August'2020

1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: August - 2020 FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh&Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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(AMBIEN	T AIR	MONITO	DRING)

Test Report No.:	URAL/2	0/08/MSPVL/A-001	Report Issue Date	28/08/2020	
Service Request form No.:	UERL/A	IR/SRF/08/A-001	Service Request Date	19/08/2020	
Sample ID No.:	UERL/A	L/AIR/ID/A-20/08/001 Field Data Sheet No. UERL/AIR/FDS/A-20/08/001			
Name & Add. of Customer	Village V	indra Solar PV Limited andh & Tunda, Taluka M Kutch 370 435, Gujarat.			
Dates of Sampling :	19/08/2		Date of Testing	21/08/2020	
Location of Sampling / Monito	ring:	Near Canteen Area.			
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)			
> Details of Master Inst	rumont Llco	d for Monitoring			

Details of Master Instrument Used for Monitoring

Instrument ld No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date	
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013, 1127-DTJ-2012	19/01/2020	19/01/2021	
UERL/AIR/FPS/51	UERL/AIR/FPS/51 Fine Particulate Sampler 137-DTD-2013 21/04/2019 19/04/2021				
General Samplin	General Sampling / Monitoring Observation as per CPCB Guideline				

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24
2.	Flow Rate of PM ₁₀	m³/min	1.28
3.	Volume of Air Sampled for PM ₁₀	m ³	1843.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04
	Test Parameter Results		

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	64	100
2.	Particulate Matter PM _{2.5}	µg/m³	22	60
3.	Sulphur Dioxide	µg/m³	10.4	80
4.	Nitrogen Dioxide	µg/m³	12.1	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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TEST REPORT (AMBIENT AIR MONITORING)

		(AMBIENT AIR MOI	NITORING)	
Test Report No.:	URAL/20	0/08/MSPVL/A-002	Report Issue Date	28/08/2020
Service Request form No.:	UERL/AI	R/SRF/08/A-002	Service Request Date	19/08/2020
Sample ID No.:	UERL/AI	R/ID/A-20/08/002	Field Data Sheet No.	UERL/AIR/FDS/A-20/08/002
Name & Add. of Customer	M/s. Mu	M/s. Mundra Solar PV Limited		
	-	andh & Tunda, Taluka Mu Kutch 370 435, Gujarat. I		
Dates of Sampling :	19/08/2	020	Date of Testing	21/08/2020
Location of Sampling / Monito	oring:	Near ETP Guard Basi	n (MSTPL)	•
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021		
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021		
General Sampli	General Sampling / Monitoring Observation as per CPCB Guideline					

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	23.52
2.	Flow Rate of PM ₁₀	m³/min	1.33
3.	Volume of Air Sampled for PM ₁₀	m ³	1876.89
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.56

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	56	100
2.	Particulate Matter PM _{2.5}	μg/m³	14	60
3.	Sulphur Dioxide	μg/m³	12.3	80
4.	Nitrogen Dioxide	μg/m³	14.2	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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Test Report No.:	URAL/20/08	3/MSPVL/A-003	Report Issue Date	28/08/2020		
Service Request form No.:	UERL/AIR/SI	ERL/AIR/SRF/08/A-003 Service Request Date 19/08/2020				
Sample ID No.:	UERL/AIR/ID	0/A-20/08/003	Field Data Sheet No.	UERL/AIR/FDS/A-20/08/003		
Name & Add. of Customer	M/s. Mundra	M/s. Mundra Solar PV Limited				
	Village Vandh & Tunda, Taluka Mundra,					
	Mundra, Kutch 370 435, Gujarat. India.					
Dates of Sampling :	19/08/2020	19/08/2020 Date of Testing 21/08/2020				
Location of Sampling / Monitoring: Near Occupational Health Center.				·		
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)						

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/22	Respirable Dust Sampler	1745-DTB-2013, 1151-DTB-2013	19/01/2020	19/01/2021		
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	06/07/2020	07/07/2021		
General Sampling / Monitoring Observation as per CPCB Guideline						

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration		24.10
2.	Flow Rate of PM ₁₀	m³/min	1.26
3.	Volume of Air Sampled for PM ₁₀	nn Research (m ³ PV)	1821.96
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.14

Test Parameter Results \geq

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	52	100
2.	Particulate Matter PM _{2.5}	µg/m³	12	60
3.	Sulphur Dioxide	µg/m³	8.4	80
4.	Nitrogen Dioxide	µg/m³	10.3	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)						
Test Report No.:	URAL/20/08	3/MSPVL/A-004	Report Issue Date	28/08/2020		
Service Request form No.:	UERL/AIR/SI	RF/08/A-004	Service Request Date	21/08/2020		
Sample ID No.:	UERL/AIR/ID	D/A-20/08/004	Field Data Sheet No.	UERL/AIR/FDS/A-20/08/004		
Name & Add. of Customer	Name & Add. of Customer M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.					
Dates of Sampling :	21/08/2020	21/08/2020 Date of Testing 24/08/2020				
Location of Sampling / Monited	Location of Sampling / Monitoring: Near Village Vandh					
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)						

Details of Master Instrument Used for Monitoring \geq

Instrument Id No. Instrument Name		Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021		
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021		
General Sampling / Monitoring Observation as per CPCB Guideline						

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m ³	1872
4.	Volume of Air Sampled for PM _{2.5}	m ³ of the second	24.04

Test Parameter Results \triangleright

Sr.	Test Parameter	Linit Result	Unit Result	Specific Value
No.	rest ratameter	Onic		(As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	76	100
2.	Particulate Matter PM _{2.5}	µg/m³	24	60
3.	Sulphur Dioxide	µg/m³	11.1	80
4.	Nitrogen Dioxide	µg/m³	14.3	80

***** End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

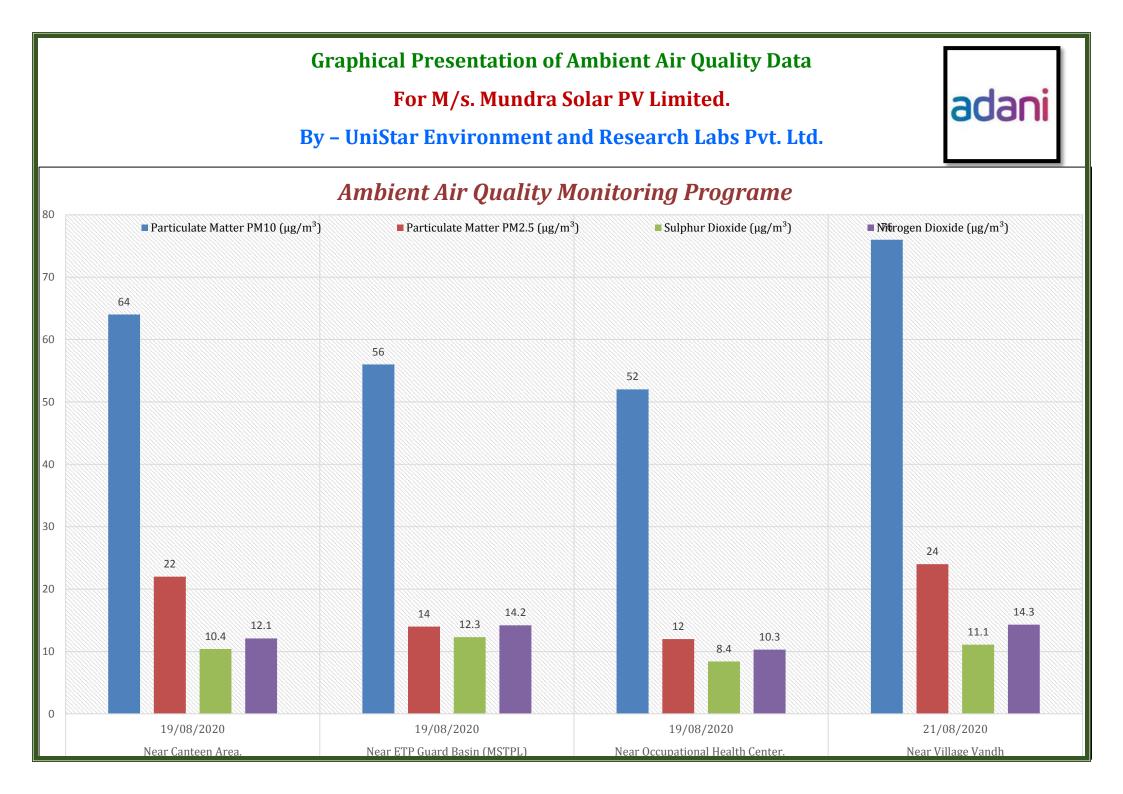
Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



3.0 NOISE LEVEL MONITORING REPORT



Period: August - 2020

FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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 $\begin{array}{l} {\sf GPCB} \ {\sf Recognized} \ {\sf Environmental} \\ {\sf A} \cup {\sf ditor} \quad (\ {\sf S} \ {\sf c} \ {\sf h} \ {\sf ed} \ {\sf ule} \ {\sf -ll}) \end{array}$

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Email : response@uerl.in Website : www.uerl.in



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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/08/MSPVL/N-001	Date Of Report:	28/08/2020		
Name & Add. Of Industries	M/s. Mundra Solar PV Limited				
	Village Vandh &Tunda, Taluka Mundra,				
	Mundra, Kutch 370 435, Gujarat. India.				
> Details of Instrument Lised for Monitoring					

Instrument Id No.Instrument NameModel NumberCali. DateNext Cali. DateUERL/AIR/SLM/Q630838Sound Level MeterSL 4023 SD31/01/202030/01/2021Sampling Method.CPCB Guideline

Date of Monitoring : 19/08/2020

Result

Sr.	Location within company premises	Noise Level dB(A)		Permissible Limit CPCB	
No.		Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	42.4	41.8	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	44.8	42.6	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	46.3	44.7	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	51.2	42.4	<75 dB(A)	<70 dB(A)

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Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

	o. (. /a	Limit in dB (A) Leq			
Area Code	Category of Area/Zone	Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)		
(A)	Industrial area	75	70		
(B)	Commercial area	65	55		
(C)	Residential area	55	45		
(D)	Silence Zone	50	40		

******* End of Report ******

Environmental Monthly Report September'2020

1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: September - 2020 FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh&Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

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TEST REPORT

(AMBIENT AIR MONITORING)					
Test Report No.:	URAL/2	20/09/MSPVL/A-001	Report Issue Date	16/09/2020	
Service Request form No.:	UERL/A	IR/SRF/09/A-001	Service Request Date	11/09/2020	
Sample ID No.:	UERL/A	UERL/AIR/SRF/09/A-/001 Field Data Sheet No. UERL/AIR/FDS/A-20/09/0			
Name & Add. of Customer	M/s. M	M/s. Mundra Solar PV Limited			
	Village Vandh & Tunda, Taluka Mundra,				
	Mundra	, Kutch 370 435, Gujarat.	India.		
Dates of Sampling :	Dates of Sampling : 11/09/2020 Date of Testing 14/09/2020				
Location of Sampling / Monito	Location of Sampling / Monitoring: Near Canteen Area.				
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)					

Details of Master Instrument Used for Monitoring

Instrument ld No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013, 1127-DTJ-2012	19/01/2020	19/01/2021		
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	21/04/2019	19/04/2021		
General Sampling / Monitoring Observation as per CPCB Guideline						

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24
2.	Flow Rate of PM ₁₀	m³/min	1.32
3.	Volume of Air Sampled for PM ₁₀	m ³	1900.8
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04
	Test Parameter Results		

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	58	100
2.	Particulate Matter PM _{2.5}	µg/m³	16	60
3.	Sulphur Dioxide	µg/m³	11.4	80
4.	Nitrogen Dioxide	µg/m³	14.6	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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TEST REPORT (AMBIENT AIR MONITORING)

(AMBIENT AIR MONITORING)				
Test Report No.:	URAL/20)/09/MSPVL/A-002	Report Issue Date	16/09/2020
Service Request form No.:	UERL/AI	R/SRF/09/A-002	Service Request Date	11/09/2020
Sample ID No.:	UERL/AI	UERL/AIR/SRF/09/A-/002 Field Data Sheet No. UERL/AIR/FDS/A-20/09/002		
Name & Add. of Customer	M/s. Mu	M/s. Mundra Solar PV Limited		
	Village Vandh & Tunda, Taluka Mundra,			
	Mundra,	Kutch 370 435, Gujarat. lı	ndia.	
Dates of Sampling :	11/09/2020 Date of Testing 14/09/2020			
Location of Sampling / Monito	Location of Sampling / Monitoring: Near ETP Guard Basin (MSTPL)			
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)				

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date		
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021		
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021		
> General Sampling / Monitoring Observation as per CPCB Guideline						

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24.10
2.	Flow Rate of PM ₁₀	m³/min	1.28
3.	Volume of Air Sampled for PM ₁₀	m ³	1850.88
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.14

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	62	100
2.	Particulate Matter PM _{2.5}	μg/m³	18	60
3.	Sulphur Dioxide	μg/m³	12.3	80
4.	Nitrogen Dioxide	μg/m³	16.4	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:

(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)				
Test Report No.:	URAL/20/09	URAL/20/09/MSPVL/A-003 Report Issue Date 16/09/2020		
Service Request form No.:	UERL/AIR/SRF/09/A-003		Service Request Date	11/09/2020
Sample ID No.:	UERL/AIR/S	RF/09/A-/003	Field Data Sheet No.	UERL/AIR/FDS/A-20/09/003
Name & Add. of Customer	tomer M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling :	11/09/2020		Date of Testing	14/09/2020
		Near Occupational	8	14/03/2020
		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Id No. Instrument Name Serial Number Cali. Date Next Cali. Date							
UERL/AIR/RDS/22	Respirable Dust Sampler	1745-DTB-2013, 1151-DTB-2013	19/01/2020	19/01/2021				
UERL/AIR/FPS/22 Fine Particulate Sampler 129-DTB-2013 06/07/2020 07/07/2021								
General Sampling / Monitoring Observation as per CPCB Guideline								

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24
2.	Flow Rate of PM ₁₀	m³/min	1.33
3.	Volume of Air Sampled for PM ₁₀	m ³	1915.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04
2	Test Parameter Results		

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	46	100
2.	Particulate Matter PM _{2.5}	µg/m³	14	60
3.	Sulphur Dioxide	µg/m³	11.3	80
4.	Nitrogen Dioxide	µg/m³	14.8	80

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



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(AMBIENT AIR MONITORING)

Test Report No.:	URAL/20/09/MSPVL/A-004 Report Issue Date 18/09/2020		18/09/2020	
Service Request form No.:	UERL/AIR/SI	RL/AIR/SRF/09/A-004 Service Request Date 12/09/2020		
Sample ID No.:	UERL/AIR/SI	UERL/AIR/SRF/09/A-/004 Field Data Sheet No. UERL/AIR/FDS/A-20/09/004		
Name & Add. of Customer	M/s. Mundra Solar PV Limited			
	Village Vandh & Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling :	12/09/2020 Date of Testing 15/09/2020		15/09/2020	
Location of Sampling / Monitor	ocation of Sampling / Monitoring: Near Village Vandh			
Sampling Method		IS:5182(Part-14) and IS:5182 (Part-5)		

Details of Master Instrument Used for Monitoring \geq

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/27	Respirable Dust Sampler	1751-DTA-2013,1142-DTA-2013	19/01/2020	19/01/2021
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	06/07/2020	07/07/2021
> General Sampling / Monitoring Observation as per CPCB Guideline				

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	Н	24
2.	Flow Rate of PM ₁₀	m³/min	1.26
3.	Volume of Air Sampled for PM ₁₀	m ³	1814.4
4.	Volume of Air Sampled for PM _{2.5}	m ³ of the second	24.04

Test Parameter Results \triangleright

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)
1.	Particulate Matter PM ₁₀	µg/m³	81	100
2.	Particulate Matter PM _{2.5}	µg/m³	26	60
3.	Sulphur Dioxide	µg/m³	14.3	80
4.	Nitrogen Dioxide	µg/m³	18.1	80

***** End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

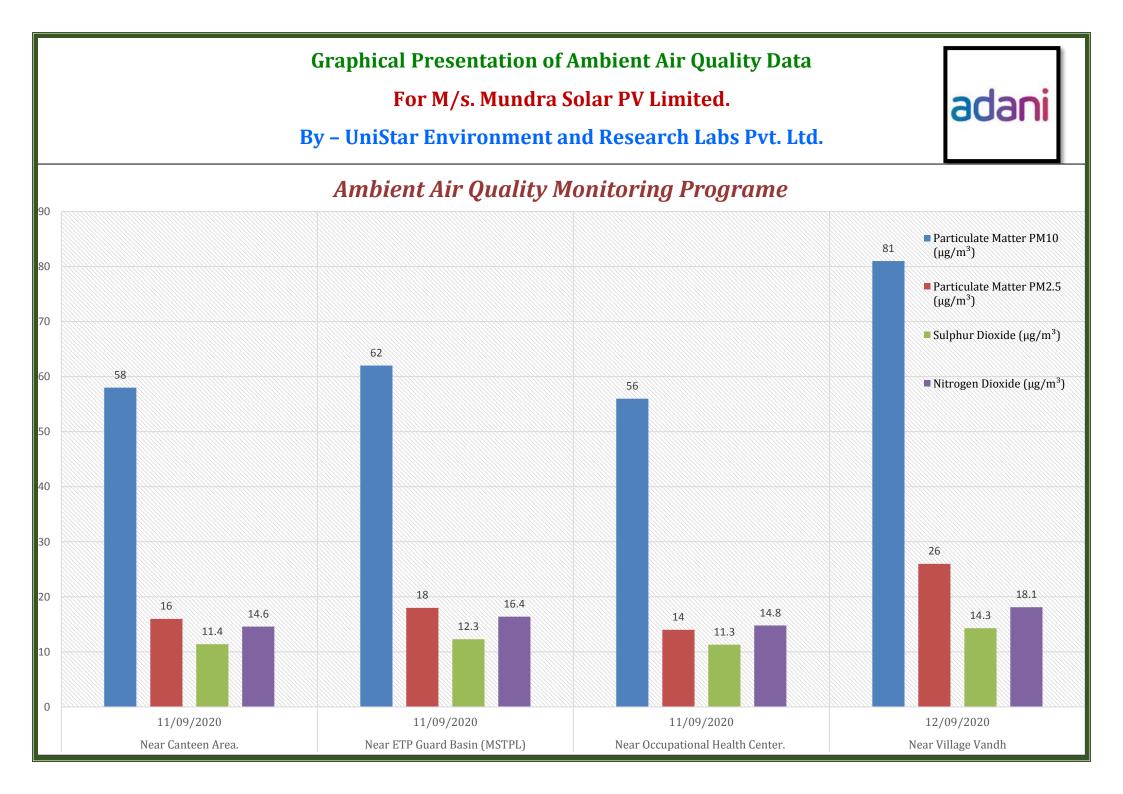
Tested By:



(Chemist) / (Sr. Chemist)

Authorized By:

(Sr. Chemist)



3.0 NOISE LEVEL MONITORING REPORT



Period: September - 2020

FOR



M/s.MUNDRA SOLAR PV LIMITED

Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.

Monitoring Organization



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 $\begin{array}{l} {\sf GPCB} \ {\sf Recognized} \ {\sf Environmental} \\ {\sf A} \cup {\sf ditor} \quad (\ {\sf S} \ {\sf c} \ {\sf h} \ {\sf ed} \ {\sf ule} \ {\sf -ll}) \end{array}$

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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/09/MSPVL/N-001	Date Of Report:	18/09/2020	
Name & Add. Of Industries	M/s. Mundra Solar PV Limited			
	Village Vandh &Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			

Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	31/01/2020	30/01/2021
Sampling Method.	CPCB Guideline			

Date of Monitoring : 12/09/2020

Result

Sr.	Location within company premises	Noise Level dB(A)		Permissible Limit CPCB	
No.		Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	61.2	48.6	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	67.4	56.7	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	62.6	44.2	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	66.3	51.6	<75 dB(A)	<70 dB(A)

Note: Ambient Air Quality Standards in respected of Noise as per CPCB.

	Cata and a f Ama / 7 and	Limit in dB (A) Leq		
Area Code	Category of Area/Zone	Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 6:00 am)	
(A)	Industrial area	75	70	
(B)	Commercial area	65	55	
(C)	Residential area	55	45	
(D)	Silence Zone	50	40	

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Page No. 19

Authorized By:

(Sr. Chemist)



Authorized By:

(Sr. Chemist)

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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/09/MSPVL/N-002	Date Of Report:	18/09/2020	
Name & Add. Of Industries	M/s. Mundra Solar PV Limited			
	Village Vandh & Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			
> Details of Instrument Lised for Monitoring				

Details of Instrument Used for Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	31/01/2020	30/01/2021
Sampling Method.	CPCB Guideline			

Date of Monitoring : 12/09/2020

Result

Sr. No.	Location within company premises	Noise Level	Permissible Limit
NO.		Day T	ime
1.	Near Pump House	72.4	<85 dB(A)
2.	Near MSPVL STP Inlet Water Pump	82.1	<85 dB(A)
3.	Near D.G Set-1	81.7	<85 dB(A)
4.	Near D.G Set-2	82.5	<85 dB(A)

Note: Permissible exposure in cases of continuous noise as per Model Factories Rules 120 (MFR 120) under Section 87.

Sr.No.	Total time of exposure (continuous short term exposures)	Sound pressure level in or a number of dB(A) per day, in hours
(1)	8 hrs.	85
(2)	6 hrs.	87
(3)	4 hrs.	90
(4)	3 hrs.	92
(5)	1 ½ hrs.	97
(6)	1 hrs.	100
(7)	¾ hrs.	102
(8)	½ hrs.	105
(9)	¼ hrs.	110

******* End of Report ******

Sampling Done By:

(Chemist) / (Environment Engg.)

Page No. 20



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Certified Company

NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/20/08/MSPVL/N-002	Date Of Report:	28/08/2020	
Name & Add. Of Industries	M/s. Mundra Solar PV Limited			
	Village Vandh &Tunda, Taluka Mundra,			
	Mundra, Kutch 370 435, Gujarat. India.			
Details of Instrument Used for Monitoring.				

Monitoring.

Instrument Id No.	Instrument Name	Model Number	Cali. Date	Next Cali. Date
UERL/AIR/SLM/Q630838	Sound Level Meter	SL 4023 SD	31/01/2020	30/01/2021
Sampling Method.	CPCB Guideline			

: 19/08/2020 Date of Monitoring

Result

Sr. No.	Location within company premises	Noise Level	Permissible Limit
		Day Time	
1.	Near Pump House	56.3	<85 dB(A)
2.	Near Compressor Area	78.4	<85 dB(A)
3.	Near Module Line-4	82.3	<85 dB(A)
4.	PECVD Area Bay-2	81.2	<85 dB(A)

Note: Permissible exposure in cases of continuous noise as per Model Factories Rules 120 (MFR 120) under Section 87.

Sr.No.	Total time of exposure (continuous short term exposures)	Sound pressure level in or a number of dB(A) per day, in hours
(1)	8 hrs.	85
(2)	6 hrs.	87
(3)	4 hrs.	90
(4)	3 hrs.	92
(5)	1 ½ hrs.	97
(6)	1 hrs.	100
(7)	¾ hrs.	102
(8)	½ hrs.	105
(9)	¼ hrs.	110

******* End of Report ******

Page No. 20

