

Ref: MSTL/EMD/Solar/EC/MoEFCC/1124/23

Date: 23.11.2023

To,

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

Integrated Regional Office, Gandhinagar Aranya Bhavan, Fourth Floor, Room No 407 Sector 10A, Gandhinagar, 382010, Gujarat

Sub: Six Monthly Compliance Status of Environment Clearance for 31,000 MTPA Polysilicon Manufacturing plant within Notified APSEZ, Mundra, Kutch, Gujarat.

Ref: EC Letter No. **SEIAA/GUJ/EC/3(a)/1277/2019** Dated: 07.09.2019, Transferred EC vide no. SEIAA/GUJ/EC/3(a)/2721/2022 dated 15.11.2022 & Corrigendum in EC vide no. SEIAA/GUJ/EC/3(a)/522/2023 dated: 06.05.2023.

Dear Sir,

With reference to above subject, please find enclosed herewith Six Monthly Environment Clearances (EC) compliance status report along with monitoring report etc. for the period of **April'2023 to September'2023** in soft (e-mail).

Poly-silicon manufacturing plant construction work yet to start.

This is for your kind information & record please.

Thanking You. Yours faithfully,

for Mundra Solar Technology Limited

(R N Shukla)

Head - Env. & Forest

Encl: as above

Member Secretary Central Pollution Control Board

Parivesh Bhavan, East Arjun Nagar Kendriya Paryavaran Bhawan New Delhi- 110032

Member Secretary Gujarat Pollution Control Board

Prayavaran Bhawan, Sector- 10 A Gandhinagar- 382010 Member Secretary

State Level Environment Impact Assessment (SEIAA)

Gandhinagar, Gujarat

Regional Officer
Gujarat Pollution Control Board

Gandhidham, Kutch, Gujarat

Mundra Solar Technology Limited

Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S G Highway, Khodiyar, Ahmedabad - 382421 Gujarat, India CIN: U40106GJ2021PLC127119 Tel +91 79 2555 5555 Fax +91 79 2555 5500 info@adani.com www.adanisolar.com

SIX MONTHLY COMPLIANCE REPORT OF ENVIRONMENTAL CLEARANCE (EC)

for

31,000 MTPA
Poly-Silicon Manufacturing Plant

At

Within Notified APSEZ, MUNDRA TALUKA KUTCHH DISTRICT GUJARAT

Submitted to:

Integrated Regional Office, Gandhinagar
Ministry of Environment & Forest & Climate Change
State Level Environment Impact Assessment Authority
Central Pollution Control Board, New Delhi &
Gujarat State Pollution Control Board, Gandhinagar



Submitted By:

Environment Management Department

Mundra Solar Technology Limited

Adani Corporate House,

Shantigram, S G Highway

Ahmedabad, Gujarat

PERIOD: April'2023 to September'2023

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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 and EC Transferred from Mundra Solar Ltd. to Mundra Solar Technology Ltd. on dated 10.11.2022 & Corrigendum in EC dated 06.05.2023.

SI. NO.	CONDITIONS	COMPLIANCE STATUS
A.	CONDITIONS:	
A 1.	SPECIFIC CONDITIONS	
1.	All efforts shall be made to optimize water	•
	consumption by exploring Best Available	MSTL will make necessary efforts to optimize
	Technology (BAT). The unit shall continuously,	water consumption.
	strive to reduce, recycle and reuse the treated	
	effluent.	
2.	Unit shall have to adhere to the prevailing area	Compliance assured once project takes off.
	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.		Compliance assured.
	environment friendly methods for disposal of	•
	incinerable & land fillable wastes before sending	· ·
	to CHWIF/TSDF sites.	for disposal of waste.
4.	Flame proof electric fitting shall be provided	
	within premises.	Flame proof electric fitting will be considered
		during design stage.
5.	Safety measures for Hazardous chemical	•
	handling as per PESO standards shall be provided.	Safety measures for Hazardous chemical
		handling as per PESO standards once project
		takes off.
6.	All measures shall be taken to prevent soil and	Compliance assured once project takes off.
7	ground water contamination.	Nahad O Assad
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	Government and/or any other statutory
0	The National Ambient Air Quality Fraississ	authority once project takes off.
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	
		within the EMC. Environmental monitoring is
	complied with.	being carried out by third party (Consultant).
0	National Emission Chandesda for Occasion	Monitoring report is enclosed As Annexure- I
9.	National Emission Standards for Organic	
	Chemicals Manufacturing Industry issued by the	Complied assured
	Ministry vide G. S. R. 608 (E) dated 21.07.2010	
A 2	and amended from time to time shall be followed,	
A 2.	WATER:	

I I	Total Water requirement for the project shall not	Will be complied once project takes off.
	exceed 20,048 KLD, Unit shall reuse 48 KLD	Permission for fresh water requirement has
	hence fresh water requirement 20,000 KLD and	already been taken from APSEZ & submitted
	it shall be met through APSEZ water supply only.	with compliance report for period Oct'20 to
	Prior permission from the concerned authority	Mar'21 vide letter no MSL/EMD/EC/MoEF
	shall be obtained for withdrawal of water.	/871/21 on dated 19/05/2021.
11.	The industrial effluent generation from the	Will be complied once project takes off.
	project shall not exceed 13,000 KLD.	
12.	No ground water shall be tapped for the project	Agreed.
	requirements.	Ground water will not be extracted.
13.	Entire effluent generated 12,300 KLD {2,400 KLD	Agreed.
	from Cooling water blow down (considering 100	Compliance assured, during the plant
	KLD as evaporation loss); 5,600 KLD of treated	operation.
	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	
1	discharge norms prescribed by GPCB/ CPCB/	
	MoEF & CC norms.	
		Agreed.
	capacity 7,000 KLD shall be proposed for treating	Compliance assured once project takes off.
	6,100 KLD wastewater generated from Etching	ETP of capacity 7000 KLD is proposed to treat
	and for Scrubbing.	the generated wastewater.
	4,500 KLD effluent generated from Cleaning &	Agreed.
	Slim Rod Cutting shall be Filtered and disposed	Will be complied once project takes off.
	into Guard Basin of MSTPL and finally discharged	vviii de dompiled dilde projede takes dili
1	into Sea through outfall channel of APSEZ.	
	2,400 KLD effluent generated from cooling tower	Agreed
1	blow down shall be treated, (Neutralized in	
1	•	
	Neurralization Pir) and disposed into Guard Basin	
	Neutralization Pit) and disposed into Guard Basin of MSTPL and finally discharged into Sea through	
	of MSTPL and finally discharged into Sea through	
	of MSTPL and finally discharged into Sea through outfall channel of APSEZ.	
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. Overall water loses in the Poly-silicon	
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. Overall water loses in the Poly-silicon Manufacturing Plant shall be 1,200 KLD i.e. (500	
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17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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	
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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	
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) Domestic wastewater generation shall not	Noted & agreed.
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) Domestic wastewater generation shall not exceed 48 KL/Day and it shall be treated in	Noted Noted & agreed. STP will be installed and to treat domestic
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) Domestic wastewater generation shall not exceed 48 KL/Day and it shall be treated in proposed STP (Primary, Secondary & Tertiary) and	Noted Noted & agreed. STP will be installed and to treat domestic wastewater and treated domestic water will be
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) 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	Noted Noted & agreed. STP will be installed and to treat domestic wastewater and treated domestic water will be
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) 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	Noted Noted & agreed. STP will be installed and to treat domestic wastewater and treated domestic water will be
17.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) 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.	Noted & agreed. STP will be installed and to treat domestic wastewater and treated domestic water will be reused in gardening and plantation.
17. 18.	of MSTPL and finally discharged into Sea through outfall channel of APSEZ. 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) 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	Noted & agreed. STP will be installed and to treat domestic wastewater and treated domestic water will be reused in gardening and plantation.

1	Neutr	alization Pit	& Filtrat	ion Syster	n for	MSTL	has c	סמסו	sed e	stablisl	n ade	quate
		nent of indust					ty of ETF					•
	opera	ted regularly ar	nd efficient	ly so as to a	chieve	domes	tic Wast	ewat	er resp	ectively	/ .	
	the Gl	PCB/ CPCB/ Mo	efcc ೪ cc	norms.								
20.	Unit s	hall provide C	ontinuous (Online mon	itoring	Compl	iance	assur	ed, c	luring	the	plant
	1	m for waste		•		operat	ion.					
	_	gement shall al			-		iuous O			_	-	
		monitoring					water dis		ge will	be esta	blish fo	or real
		, which can be	e assessable	e by the GP	CB on	time m	nonitorin	g.				
21		me basis.	b i 4	6:I:bb bb	-:-!	0	:			l	LL -	-1
21.		nit shall provide utlet of the E ⁻	•	•		Compl operat		assur	ea, c	luring	the	plant
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	301110					mainta		VOCCI	Зузсен	11 0110 11	CCOIG V	VIII OC
22.	Prope	r logbooks of E	TP Operation	on, STP ope	ration.		d Comp	liance	e assur	ed, dur	ing the	plant
		alization pit &				operat				·	J	•
		cal consumpt		•		Logbo	oks will	be m	aintain	ed and	report	s will
	quant	ities and quali	ties of efflu	uent discha	rge to	be sub	mitted t	o the	GPCB.			
	APSE	Z outfall cha	nnel, reus	e for Gre	enbelt							
		opment, garde	_									
		mption etc. sh			hall be							
		hed to the GPC	B from tim	e to time.								
A. 3.	AIR:		16.			. 50						
23.	Unit s	hall not exceed					et as me	ention	ied bel	ow:		
	Sr.	Source of emission with	Stack Height in	I I VOA OTI	uantity of Fuel	Ту	pe of					
			i i i cigiic iii							APCM		
1	No.		meter	fuel		Em	ission			APCM		
	No.	capacity D. G. Set	meter 30.00	N	AT/Day 5 L/hr.	PM _{2.5} ,	PM ₁₀ ,	Adeq		Stack	He	ight,
		capacity		N	NT/Day		PM ₁₀ ,	•	uate			_
		D. G. Set		N	NT/Day	PM _{2.5} ,	PM ₁₀ ,	Insula	uate ation, F	Stack	nd Acou	_
24.	1.	D. G. Set (125 KVA)	30.00	HSD 2	AT/Day 5 L/hr.	PM _{2.5} , SO ₂ , N	PM ₁₀ , Ox	Insula Enclo	uate ation, F sure is	Stack Filter ar propos	nd Acou ed	ustic
24.	1.	D. G. Set	30.00 dequate AP	HSD 2	AT/Day 5 L/hr.	PM _{2.5} , SO ₂ , N	PM ₁₀ ,	Insula Enclo sidere	uate ation, F sure is	Stack Filter ar propose	nd Acou ed ed APC/	ustic M and
24.	1. Unit s	D. G. Set (125 KVA)	30.00 dequate AP	HSD 2 CM with flued above:	AT/Day 5 L/hr. ue gas	PM _{2.5} , SO ₂ , N	PM ₁₀ , Ox has cons	Insula Enclo sidere	uate ation, F sure is ed the p	Stack Filter ar propose propose project	nd Acou ed ed APC <i>I</i> takes c	M and
	1. Unit s gener	capacity D. G. Set (125 KVA) hall provide acation sources a	30.00 dequate AP as mentione dequate AF	HSD 2 CM with flued above:	AT/Day 5 L/hr. ue gas	PM _{2.5} , SO ₂ , N MSTL will be	PM ₁₀ , Ox has cons impleme	Insula Enclo sidere ented sidere	uate ation, F sure is ed the p once p	Stack Filter ar propose propose project propose	ed APC/ takes o	M and off. M and
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28.	The fugitive emission in the work zone	Agreed & Compliance assured.
20.	environment shall be monitored. The emission	,
	shall conform to the standards prescribed by the	
	concerned authorities from time to time (e.g.	1
	, -	Internal pucca Roads is already constructed to reduce the fugitive emission during vehicular.
	Directors of Industrial Safety & Health). Following	
	indicative guidelines shall also be followed to	
	reduce the fugitive emission.	Air borne dust will be controlled with water
	> Internal roads shall be either concreted or	· '
	asphalted or paved properly to reduce the	
	fugitive emission during vehicular movement.	1
	Air borne dust shall be controlled with water	fugitive & transport dust emission.
	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 (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:	MSTL 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	MSTL will make efforts to control air borne
	providing enclosures.	dust by taking appropriate measures during
		operation phase.
32.	Regular monitoring of ground level concentration	The proposed project is under the Electronic
	of PM2.5, PM10, S02, NOX, HCI, CI2, H2 & VOC	Manufacturing Cluster (EMC) premises within
	shall be carried out in the impact zone and its	APSEZ a Mundra, Kutch.
	records shall be maintained. Ambient air quality	Regular monitoring of ground level
	levels shall not exceed the standards stipulated	concentration of PM2.5, PM10, S02, NOX, is
	by the GPCB. If at any stage these levels are found	being carried out by the consultant and report
	to exceed the prescribed limits, necessary	is enclosed as Annexure- I.
	additional control measures shall be taken	
	immediately. The location of the stations and	
	frequency of monitoring shall be decided in	
	consultation with the GPCB	
L	<u>.</u>	1

A. 4.	SOLID	/ HAZARDOUS V	VASTE				
33.	All the	hazardous was	ste management s	shall be	taken	Agreed.	
	care as	s mentioned belo	w			Complia off.	ance assured once project takes
	Sr. No	Hazardous	Specific Source of generation	Category		antity /Annum)	Management of Disposal
	1	Chemical Sludge	From process, ETP, Scrubber	35.3	13870	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	No./Year	Will be sell to registered recycler for recycling
	3	Used oil	Machinery & D.G. Set	5.1	20 I	KL/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		MT/Year	To recycler/re-user as raw material
	6	Waste Silicon	Process reactors	B1010		NT/Year	TSDF & will explore feasibility to use as Raw material & re-process
	7	Spent Activated Carbon		A4160		MT/Year	TSDF & re-process
34.	8	Filters	Purification Process shall have permiss			MT/Year	TSDF & re-user
A. 5. 35.	Transb OTHER The pr of Rs. (which activiti	dous and Other oundary Movem coject proponent 36.905 Cr i.e. (ever is applicables, Public Hea	er Wastes (Mana ent) Rules 2016. shall allocate the 0.5 % of the capit e) for activities likalth and family	separate cal invest ke Educal welfare	fund ment tional and	MSTL has a sectivities	rill take due care that Authorized ers shall have permissions from cerned authorities. as proposed separate fund of Rs. Cr i.e. 0.5 % of the capital ent (whichever is applicable) for es like Educational activities,
36.	Preservation of Environment, rain water harvesting Public Health and family welfare under Corporate Environment Responsibility (CER) in Preservation of Environment, rain v				ation of Environment, rain water ing under Corporate ment Responsibility (CER) in ance to the MoEFCC Office andum No. F.No.22-65/2017-IA.1II 1/05/2018.		
	before		osed in the EIA r				

B.	GENERAL CONDITIONS	
B. 1	CONSTRUCTION PHASE	
37.	Water demand during construction shall be reduced by	Noted.
	use of curing agents, super plasticizers and other best	Compliance assured once project takes
	construction practices.	off.
38.	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	MSTL 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	
41	quantity at all the times.	established First Aid center.
41.	The project proponent shall strictly comply with the	
	Building and other Construction Workers' (Regulation of Employment & Conditions of Service) Act 1996 and	Will be complied once project takes off
	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 & will be complied.
12.	standards both during day and night. Incremental	Regular Noise monitoring report
	pollution load on the ambient air and noise quality shall	showing noise level below prescribed
	be closely monitored during construction phase.	standards is enclosed as Annexure- I .
43.	Use of Diesel Generator (DG) sets during construction	Will be complied once project takes off
	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.	wastewater and municipal solid wastes.
45.	All topsoil excavated during construction activity shall	Noted & Compliance assured
	be used in horticultural/landscape development within	
	the project site.	
46.	Excavated earth to be generated during the	
	construction phase shall be utilized within the premises	The proposed project area is almost flat.
	to the maximum extent possible and balance quantity	However, MSTL is ensured to utilize
	of excavated earth shall be disposed off with the	excavated earth in filling & surface
	approval of the competent authority after taking the	leveling as well landscaping.
	necessary precautions for general safety and health	
	aspects. Disposal of the excavated earth during	
	construction phase shall not create adverse effect	
	neighboring communities	

47.	Desirat acceptant shall assure use of one friendly	Noted.
47.	Project proponent shall ensure use of eco-friendly	
	building material including fly ash bricks, fly ash paver	'
	blocks, Ready Mix Concrete [RMC] and lead free paints	off.
	in the project.	MSTL has considered use of Fly Ash
		based bricks for its construction
		purpose.
48.	Fly ash shall be used in construction wherever	Noted and will be followed.
	applicable as per provisions of Fly Ash Notification	
	under the E.P. Act, 1986 and its subsequent	
	amendments from time to time.	
B. 2	OPERATION PHASE	
B. 2.1	WATER	
49.	The water meter shall be installed and records of daily	Noted.
	and monthly water consumption shall be maintained.	Compliance assured once project takes
		off
50.	All efforts shall be made to optimize water consumption	
	by exploring Best Available Technology (BAT). The unit	MSTL will make necessary efforts to
	shall continuously strive to reduce, recycle and reuse	optimize water consumption.
	the treated effluent.	
B. 2.2:	AIR	
51.	In case of use of spray dryer, the unit shall provide the	MSTL has proposed to install adequate
	adequate & efficient APCMs with the spray dryer so that	APCM system and will carry out third
	there should not be any adverse impact on human	party monitoring of APCM and report will
	health & environment. Unit shall carry out third party	be sent to GPCB periodically.
	monitoring of the proposed Spray dryer & it's APCM	
	through the credible institutes and study report for	
	impacts on Environment and Human Health shall be	
	submitted to GPCB every year along with half yearly	
	compliance report.	
52.	Acoustic Enclosures should be provided DG sets (If	MSTL has proposed to provide Acoustic
	applicable) to mitigate the noise pollution and shall	Enclosures on DG set to mitigate the
	conform to the EPA Rules for air emission standards.	noise pollution.
53.	Stack/Vents (Whichever is applicable) of adequate	Compliance assured.
	height shall be provided as per the prevailing norms for	MSTL has considered adequate height
	flue gas emission/Process gas emission.	of vents for process emissions.
54.	Flue gas emission & process gas emission (If any) shall	Noted and will be complied after
	conform to the standards prescribed by the	· .
	GPCB/CPCB/MoEF&CC. At no time, emission level	
	should go beyond the stipulated standards.	
55.	All the reactors / vessels used in the manufacturing	Noted & agreed.
	process shall be closed to reduce the fugitive emission.	
B .2.3	HAZARDOUS / SOLID WASTE	
56.	The company shall strictly comply with the rules and	Agreed and will be complied once
	regulations with regards to handling and disposal of	
	Hazardous waste in accordance with the Hazardous and	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	Other Wastes (Management and Transboundary	
	Tanas visaces (monegement and monagement)	

	M	Authoritation of the ODOD will be
	Movement) Rules 2016, as may be amended from time	
	to time. Authorization of the GPCB shall be obtained for	
	collection / treatment / storage / disposal of hazardous	storage / disposal of hazardous wastes.
	wastes.	
57.	Hazardous wastes shall be dried, packed and stored in	
	separate designated hazardous waste storage facility	Hazardous Waste Storage Shed will be
	with pucca bottom and leachate collection facility,	made to store waste in separate
	before its disposal.	designated place.
58.	The unit shall obtain necessary permission from the	Agreed and will be complied once
	nearby TSDF site and CHWIF. (Whichever is applicable)	project takes off.,
59.	Trucks/Tankers used for transportation of hazardous	Compliance assured once project takes
	waste shall be in accordance with the provisions under	off.
	the Motor Vehicle Act, 1988, and rules made there	
	under	
60.	The design of the Trucks/tankers shall be such that	Noted.
	there is no spillage during transportation	
61.	All possible efforts shall be made for Co-Processing of	MSTL will make efforts to
	the Hazardous waste prior to disposal into TSDF/CHWIF.	reuse/reutilize.
		Hazardous waste prior to disposal.
62.	Management of fly ash (If any) shall be as per the Fly	Noted.
<u> </u>	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.	
	ny asir to be generated from the onit.	
D 2 1	CAEETV	
B. 2.4	The equipies/manages shall strictly comply the	Noted 9 parend
B. 2.4 63.	The occupier/manager shall strictly comply the	Noted & agreed.
	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat	Noted & agreed.
63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963.	
	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. The project authorities shall strictly comply with the	Compliance assured once project takes
63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. The project authorities shall strictly comply with the provisions made in Manufacture. Storage and Import of	Compliance assured once project takes
63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. The project authorities shall strictly comply with the provisions made in Manufacture. Storage and Import of Hazardous Chemicals Rules (MSIHC) 1989, as amended	Compliance assured once project takes
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63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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	Compliance assured once project takes
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63.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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	Compliance assured once project takes
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64.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented.	Compliance assured once project takes off.
64.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented. Main entry and exit shall be separate and clearly marked	Compliance assured once project takes off. Noted.
63. 64.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented. Main entry and exit shall be separate and clearly marked in the facility	Compliance assured once project takes off. Noted.
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63.64.65.66.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented. Main entry and exit shall be separate and clearly marked in the facility Sufficient peripheral open passage shall be kept in the margin area for free movement office tender/emergency vehicle around the premises	Compliance assured once project takes off. Noted. Noted & Agreed
63.64.65.66.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented. Main entry and exit shall be separate and clearly marked in the facility Sufficient peripheral open passage shall be kept in the margin area for free movement office tender/emergency vehicle around the premises Storage of flammable chemicals shall be sufficiently away from the production area.	Compliance assured once project takes off. Noted. Noted & Agreed Noted and Agreed.
63.64.65.66.67.	The occupier/manager shall strictly comply the provisions under the Factories Act 1948 and the Gujarat Factories Rules 1963. 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 Offsite Disaster Management Plans have to be prepared and implemented. Main entry and exit shall be separate and clearly marked in the facility Sufficient peripheral open passage shall be kept in the margin area for free movement office tender/emergency vehicle around the premises Storage of flammable chemicals shall be sufficiently	Compliance assured once project takes off. Noted. Noted & Agreed Noted and Agreed. Will be complied once project takes off.

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69.	All necessary precautionary measures shall be taken to	
	avoid any kind of accident storage and handling of toxic	
	/ hazardous chemicals	
70.	All the toxic/hazardous chemicals shall be stored in	Noted
	optimum quantity and all necessary permissions in this	
	regard shall be obtained before commencing the	
	expansion activities.	
71.	The project management shall ensure to comply with all	Noted & accept
/ 1.	the environment protection measures, risk mitigation	1
	measures and safeguards mentioned in the Risk	
	_	
	Assessment report.	
72.	Only flame proof electrical fittings shall be provided in	
	the plant premises	Flame proof electric fitting will be
		considered during designing stage.
73.	Storage of hazardous chemicals shall be minimized and	Noted and Agreed.
	it shall be in multiple small capacity tanks / containers	
	instead of one single large capacity tank / containers.	
74.	All the storage tanks shall be fitted with appropriate	Noted & Agreed
	controls to avoid any leakages. Bund/dyke walls shall be	3
	provided for storage tanks for Hazardous chemicals	
75.	Handling and charging of the chemicals shall be done in	Noted
1).		
	closed manner by pumping or by vacuum transfer so	
	that minimal human exposure occurs.	and charging system for chemicals &
		reactors.
76.	Tie up shall be done with nearby health care unit /	Noted & Agreed
	doctor for seeking immediate medical attention in the	
	case of emergency.	
77.	Personal Protective Equipments (PPEs) shall be	Noted & Agreed
	provided to workers and its usage shall be ensured and	Appropriative actions will be taken for
	supervised.	safety of manpower.
78.	First Aid Box and required antidotes for the chemicals	Noted
	used in the unit shall be made readily available in	
	adequate quantity.	
79.	Training shall be imparted to all the workers on safety	Agreed. Compliance assured once
'	and health aspects of chemicals handling	project takes off.
80.	Occupational health surveillance of the workers shall be	1
	done and its records shall be maintained. Pre-	Compliance assured once project takes
	employment and periodical medical examination for all	
	· · ·	off.
	the workers shall be undertaken as per the Factories Act	
0.0	& Rules.	
81.	Transportation of hazardous chemicals shall be done as	Agreed.
	per the provisions of the Motor Vehicle Act & Rules.	
82.	The company shall implement all preventive and	Agreed
	mitigation measures suggested in the Risk Assessment	MSTL will implement preventive and
	Report.	mitigation measures as mentioned in
		Risk Plan.
	1	

83.	Necessary permissions from various statutory	Compliance assured.
	authorities like PESO, Factory Inspectorate and others	
	shall be obtained prior to commissioning of the project.	
B. 2.5	NOISE:	
84.	The overall noise level in and around the plant area shall	Noted and will be complied during
	be kept well within the standards by providing noise	operation phase.
	control measures including Engineering controls like	Regular Noise monitoring reports
	acoustic insulation hoods, silencers, enclosures, etc. on	showing noise quality below prescribed
	all sources of noise generation. The ambient noise level	standard are attached as Annexure I .
	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	
	Assessment study through a reputed institute /	1
	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.	• •	Noted & 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	
	h. Recycling of steam condensatei. 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	Compliance assured once project takes
07.	the CPCB guidelines. However, if the adequate land is	off.
	not available within the premises, the unit shall take up	Greenbelt will be developed within the
	adequate plantation on road sides and suitable open	plant premises as per CPCB guidelines.
	areas in GIDC estate or any other open areas in	promo promisos do por or ou gordamico.
	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:	

89.	Unit shall comply all the applicable standard conditions	Noted and will be complied once project
	prescribed in Office Memorandum (OM) published by	takes off.
	MoEF&CC vide no. F. No. 22-34/2018-IA.III dated	
	09/08/2018.	
90.	The project proponent shall allocate the separate fund	Noted & Agreed
	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.	Rain water harvesting of surface as well as rooftop	Noted
	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.	
92.	The unit shall join and participate financially and	Noted & Agreed
	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	Noted
	illumination of common areas, lighting for gardens and	MSTL will explore the feasibility of using
	street lighting in addition the provision for solar water	solar energy within the premises.
	heating system shall also be provided.	
94.	The area earmarked as green area shall be used only for	Noted and Agreed.
	plantation and shall not be altered for any other	
	purpose.	
95.	All the commitments / undertakings given to the SEAC	Noted and Agreed.
	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	Noted and Agreed.
	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	Noted and Agreed.
	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	Noted and Agreed.
	stipulations made by the Gujarat Pollution Control	
	<u> </u>	

	Board (GPCB), State Government and any statutory				
	Authority.				
	During material transfer there shall be no spillages and	Noted and Agreed.			
	garland drain shall be constructed to avoid mixing of				
	accidental spillages with domestic wastewater or storm				
	water.				
	Pucca flooring / impervious layer shall be provided in the				
	work areas, chemical storage areas and chemical	off.			
	handling areas to minimize soil contamination.				
101.	Leakages from pipes, pumps shall be minimal and if	Noted and compliance assured.			
	occurs, shall be arrested promptly.				
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	Agreed and will be complied once			
	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	Agreed and will be complied once			
	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	MSTL has published the advertisement			
	SEIAA and that the copies of the clearance letter are	in 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				
	Gujarati language and the other in English. A copy each	Clippings of newspaper advertisement			
	of the same shall be forwarded to the concerned	already submitted in compliance report			
1					
	Regional Office of the Ministry.	of October'2019 – March'2020			

108.	It shall be mandatory for the project management to	Noted
	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 1st June and 1st December of each	• •
	calendar year.	Last compliance report for the period of
	,	October 2022 to March 2023 submitted
		vide letter no. MSTL/EMD/Solar/EC/
		MoEFCC/291/05/23 dated: 18.05.2023
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	
	found satisfactory.	
112.	The company in a time bound manner shall implement	Noted & Compliance assured
	these conditions. The SEIAA reserves the right to	
	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	
	lie with the National Green tribunal, within a period of	
	30 days as prescribed under Section 16 of the National	
11.5	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 MONITORING REPORT

Period: April - 2023

FOR



M/s. MUNDRA SOLAR PV LIMITED



At

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



Monitoring Organization

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

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: April - 2023

FOR



M/s.MUNDRA SOLAR PV LIMITED

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





White House
Near G.I.D.C. Office, Char Rasta,
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TEST REPORT (AMBIENT AIR MONITORING)

(AMBENT AIR MONTORING)					
Discipline.	Chemical Tes	ting	Name Of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/04/	/MSPVL/A-001	Report Issue Date	22/04/2023	
Service Request form No.:	UERL/AIR/SRI	F/04/A-001	Service Request Date	08/04/2023	
Sample ID No.:	UERL/AIR/ID/	′04/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/04/001	
Name & Add. of Customer	Village Vandh	a Solar PV Limited a & Tunda, Taluka N ch 370 435, Gujarat	,		
Dates of Sampling:	08/04/2023		Date of Testing	10/04/2023	
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 Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013 1127-DTJ-2012	31/03/2023	30/03/2024
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	31/03/2023	30/03/2024

➤ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	HIGH AND TOOCA	24
2.	Flow Rate of PM ₁₀	m³/min	1.31
3.	Volume of Air Sampled for PM ₁₀	m³	1886.4
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	81	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	22	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	13.8	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	19.4	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.3 UERL/AIR/F-05/05

CIN: U73100GJ2007PTC051463



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TEST REPORT (AMBIENT AIR MONITORING)

	(/ ((()))	IN AIR MONTON	,	
Discipline.	Chemical Testin	Chemical Testing		Atmospheric Pollution
Test Report No.:	URAL/23/04/MSPVL/A-002		Report Issue Date	22/04/2023
Service Request form No.:	UERL/AIR/SRF/0	4/A-002	Service Request Date	08/04/2023
Sample ID No.:	UERL/AIR/ID/04	/A-002	Field Data Sheet No.	UERL/AIR/FDS/A-23/04/002
Name a radii or editomer		Dlar PV Limited Tunda, Taluka Mundr 370 435, Gujarat. India	,	
Dates of Sampling:	08/04/2023		09/02/2023	
Location of Sampling / Monito	ring:	Near ETP Guard Basin (MSTPL)		
Sampling Method		IS:5182(Part-14) ar	nd 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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

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

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	88	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	28	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	15.2	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	21.1	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.4 UERL/AIR/F-05/05

CIN: U73100GJ2007PTC051463



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical To	esting	Name Of Group	Atmospheric Pollution
Test Report No.:	URAL/23/04/MSPVL/A-003		Report Issue Date	22/04/2023
Service Request form No.:	UERL/AIR/S	SRF/04/A-003	Service Request Date	08/04/2023
Sample ID No.:	UERL/AIR/II	D/04/A-003	Field Data Sheet No.	UERL/AIR/FDS/A-23/04/003
Name & Add. of Customer	Village Vand	Ira Solar PV Limited dh & Tunda, Taluka M Itch 370 435, Gujarat.	•	
Dates of Sampling:	08/04/2023	3	Date of Testing	09/02/2023
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

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

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	72	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	22	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	16.3	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	22.4	80	IS 5182 (Part-6)

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

Checked By:

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Authorized By:

Jaivik S. Tandel (Manager - Operations)

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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Tes	sting	Name Of Group	Atmospheric Pollution
Test Report No.:	URAL/23/04	/MSPVL/A-004	Report Issue Date	22/04/2023
Service Request form No.:	UERL/AIR/SR	F/04/A-004	Service Request Date	10/04/2023
Sample ID No.:	UERL/AIR/ID	/04/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/04/004
Name & Add. of Customer	M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	10/04/2023		Date of Testing	11/04/2023
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

> General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Kesearc	I Labs PVI. Liu. 24
2.	Flow Rate of PM ₁₀	m³/min	1.31
3.	Volume of Air Sampled for PM ₁₀	m³	1886.4
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

> Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	94	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	32	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	18.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	28.1	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

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Jaivik S. Tandel (Manager - Operations)

Page No.6 UERL/AIR/F-05/05

CIN: U73100GJ2007PTC051463

3.0 NOISE LEVEL MONITORING REPORT



Period: April - 2023

FOR



M/s. MUNDRA SOLAR PV LIMITED

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

Monitoring Organization



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

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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/23/04/ MSPVL/N-001	Date Of Report:	22/04/2023	
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	03/02/2022	02/02/2024
Sampling Method.	CPCB Guideline			

Date of Monitoring : 08/04/2023

Result

Sr.	Location within company premises	Noise Le	vel dB(A)	Permissible Limit CPCB	
No.	Location within company premises	Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	61.2	51.6	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	66.3	54.2	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	61.8	56.1	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	62.7	52.7	<75 dB(A)	<70 dB(A)

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

A Cl-	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			

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

ENVIRONMENTAL MONITORING REPORT

Period: May - 2023

FOR



M/s. Mundra Solar Energy Limited



At

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



Monitoring Organization

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: May - 2023

FOR



M/s. Mundra Solar Energy Limited

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



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Tes	ting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/05/	/MSEL/A-001	Report Issue Date	31/05/2023
Service Request form No.:	UERL/AIR/SRI	F/05/A-001	Service Request Date	27/05/2023
Sample ID No.:	UERL/AIR/ID/	/05/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/05/001
Name & Add. of Customer	Village Vandh	a Solar Energy Limite n & Tunda, Taluka M ch 370 435, Gujarat.	undra,	
Dates of Sampling:	27/05/2023		Date of Testing	29/05/2023
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 Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013 1127-DTJ-2012	02/04/2022	01/04/2023
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	02/04/2022	01/04/2023

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	m³	1843.2
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	81	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	26	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	14.8	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	21.3	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.3 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Testing	Chemical Testing		Atmospheric Pollution	
Test Report No.:	URAL/23/05/MS	EL/A-002	Report Issue Date	31/05/2023	
Service Request form No.:	UERL/AIR/SRF/05	5/A-002	Service Request Date	27/05/2023	
Sample ID No.:	UERL/AIR/ID/05/	UERL/AIR/ID/05/A-002		UERL/AIR/FDS/A-23/05/002	
Name & Add. of Customer	Village Vandh & T	lar Energy Limited Funda, Taluka Mundra 70 435, Gujarat. India			
Dates of Sampling:	27/05/2023	27/05/2023		29/05/2023	
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

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	02/04/2022	01/04/2023
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	02/04/2022	01/04/2023

General Sampling / Monitoring Observation as per CPCB Guideline

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

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	64	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	24	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	15.7	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	22.6	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.4 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Testing		Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/0	5/MSEL/A-003	Report Issue Date	31/05/2023
Service Request form No.:	UERL/AIR/S	RF/05/A-003	Service Request Date	27/05/2023
Sample ID No.:	UERL/AIR/II	D/05/A-003	Field Data Sheet No.	UERL/AIR/FDS/A-23/05/003
Name & Add. of Customer	Village Vand	ra Solar Energy Limite dh & Tunda, Taluka Mu tch 370 435, Gujarat.	undra,	
Dates of Sampling:	27/05/2023		Date of Testing	29/05/2023
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

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	02/04/2022	01/04/2023
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	02/04/2022	01/04/2023

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	1.29
3.	Volume of Air Sampled for PM ₁₀	m³	1857.6
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	78	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	21	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	18.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	20.3	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.5 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Tes	sting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/05	/MSEL/A-004	Report Issue Date	31/05/2023
Service Request form No.:	UERL/AIR/SR	F/05/A-004	Service Request Date	29/05/2023
Sample ID No.:	UERL/AIR/ID,	/05/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/05/004
Name & Add. of Customer	Village Vandh	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.		
Dates of Sampling:	29/05/2023		Date of Testing	31/05/2023
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

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	02/04/2022	01/04/2023
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	02/04/2022	01/04/2023

> General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Kesearc	Labs PVI. Liu. 24
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m³	1872
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	86	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	33	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	21.1	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	24.3	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

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Page No.6 UERL/AIR/F-05/05

3.0 NOISE LEVEL MONITORING REPORT



Period: May - 2023

FOR



M/s. Mundra Solar Energy Limited

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

Monitoring Organization



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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/23/05/ MSPVL/N-001	Date Of Report:	31/05/2023	
Name & Add. Of Industries	M/s. Mundra Solar Energy 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	03/02/2023	02/02/2024
Sampling Method.	CPCB Guideline			

Date of Monitoring : 27/05/2023

Result

Sr.	Location within company promises	Noise Le	vel dB(A)	Permissible Limit CPCB	
No.	No. Location within company premises		Night Time	Day Time	Night Time
1.	North: Near Canteen area	64.2	46.7	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	65.2	42.5	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	64.8	44.6	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	67.2	42.8	<75 dB(A)	<70 dB(A)

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

Awaa Cada	Catagory of Augo /Zono	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:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

ENVIRONMENTAL MONITORING REPORT

Period: June - 2023

FOR



M/s. MUNDRA SOLAR PV LIMITED



At

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



Monitoring Organization

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: June - 2023

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)

(AMDIENT AIR MONTORING)					
Discipline.	Chemical Tes	ting	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/06/	/MSPVL/A-001	Report Issue Date	01/07/2023	
Service Request form No.:	UERL/AIR/SRI	F/06/A-001	Service Request Date	27/06/2023	
Sample ID No.:	UERL/AIR/ID/	'06/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/06/001	
Name & Add. of Customer	M/s. Mundra Solar PV Lin Name & Add. of Customer Village Vandh & Tunda, Ta Mundra, Kutch 370 435, C				
Dates of Sampling:	27/06/2023		Date of Testing	29/06/2023	
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 Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013 1127-DTJ-2012	31/03/2023	30/03/2024
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H H	24
2.	Flow Rate of PM ₁₀	m³/min	1.29
3.	Volume of Air Sampled for PM ₁₀	m³	1857.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	78	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	21	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	12.9	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	18.6	80	IS 5182 (Part-6)

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

Checked By:

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Page No.3 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

(AMBERT AIR MONTORING)					
Discipline.	Chemical Testin	g	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/06/M	SPVL/A-002	Report Issue Date	01/07/2023	
Service Request form No.:	UERL/AIR/SRF/0	6/A-002	Service Request Date	27/06/2023	
Sample ID No.:	UERL/AIR/ID/06	/A-002	Field Data Sheet No.	UERL/AIR/FDS/A-23/06/002	
M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.					
Dates of Sampling:	27/06/2023	27/06/2023		29/06/2023	
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H and Mesocaron L	24
2.	Flow Rate of PM ₁₀	m³/min	1.31
3.	Volume of Air Sampled for PM ₁₀	m³	1886.4
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	82	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	24	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	13.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	19.2	80	IS 5182 (Part-6)

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

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Page No.4 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

Atmospheric Pollution		
01/07/2023		
ate 27/06/2023		
Io. UERL/AIR/FDS/A-23/06/003		
29/06/2023		
toring: Near Occupational Health Center.		
IS:5182(Part-14) and IS:5182 (Part-5)		
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/22	Respirable Dust Sampler	1745-DTB-2013 1151-DTB-2013	31/03/2023	30/03/2024
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24.05
2.	Flow Rate of PM ₁₀	m³/min	1.33
3.	Volume of Air Sampled for PM ₁₀	m³	1919.19
4.	Volume of Air Sampled for PM _{2.5}	m³	24.09

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	74	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	18	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	19.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	24.2	80	IS 5182 (Part-6)

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

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TEST REPORT (AMBIENT AIR MONITORING)

(AMBIENT AIR MONTORING)				
Discipline.	Chemical Tes	sting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/06	/MSPVL/A-004	Report Issue Date	01/07/2023
Service Request form No.:	UERL/AIR/SR	F/06/A-004	Service Request Date	28/06/2023
Sample ID No.:	UERL/AIR/ID	/06/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/06/004
Name & Add. of Customer	M/s. Mundra Solar PV Limited e & Add. of Customer Village Vandh & Tunda, Taluka Mundra, Kutch 370 435, Gujara			
Dates of Sampling:	28/06/2023		Date of Testing	30/06/2023
Location of Sampling / Monitorin	ng:	Near Village Vandh		
Sampling Method	pling 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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

➢ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Kesearc	Labs PVI. Ll0. 24.10
2.	Flow Rate of PM ₁₀	m³/min	1.33
3.	Volume of Air Sampled for PM ₁₀	m³	1923.18
4.	Volume of Air Sampled for PM _{2.5}	m³	24.14

> Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	86	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	26	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	17.2	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	21.6	80	IS 5182 (Part-6)

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

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Page No.6 UERL/AIR/F-05/05

3.0 NOISE LEVEL MONITORING REPORT



Period: June - 2023

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

Test Report No.:	UERL/23/06/ MSPVL/N-001	Date Of Report:	03/07/2023
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	03/02/2022	02/02/2024
Sampling Method.	Method. CPCB Guideline			

Date of Monitoring : 27/06/2023

Result

Sr.	Noise Lev Location within company premises		vel dB(A)		issible CPCB
No.	Location within company premises	Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	64.3	54.2	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	62.1	53.8	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	63.8	54.1	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	61.2	53.8	<75 dB(A)	<70 dB(A)

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

A C l .	0-1	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:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

ENVIRONMENTAL MONITORING REPORT

Period: July - 2023

FOR



M/s. Mundra Solar Energy Limited



At

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



Monitoring Organization

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: July - 2023

FOR



M/s. Mundra Solar Energy Limited

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



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TEST REPORT (AMBIENT AIR MONITORING)

Discipline.	Chemical Tes	ting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/07/	MSEL/A-001	Report Issue Date	28/07/2023
Service Request form No.:	UERL/AIR/SRI	F/07/A-001	Service Request Date	13/07/2023
Sample ID No.:	UERL/AIR/ID/	′07/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/07/001
Name & Add. of Customer	Village Vandh	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.		
Dates of Sampling:	13/07/2023		Date of Testing	14/07/2023
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 Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/25	Respirable Dust Sampler	1744-DTA-2013 1127-DTJ-2012	31/03/2023	30/03/2024
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	31/03/2023	30/03/2024

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	1.30
3.	Volume of Air Sampled for PM ₁₀	m³	1872
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	78	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	24	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	13.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	16.8	80	IS 5182 (Part-6)

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

Checked By:

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TEST REPORT (AMBIENT AIR MONITORING)

(AMDIENT ARTHORNIA)					
Discipline.	Chemical Testing	Chemical Testing		Atmospheric Pollution	
Test Report No.:	URAL/23/07/MS	EL/A-002	Report Issue Date	28/07/2023	
Service Request form No.:	UERL/AIR/SRF/07	7/A-002	Service Request Date	13/07/2023	
Sample ID No.:	UERL/AIR/ID/07/	A-002	Field Data Sheet No.	UERL/AIR/FDS/A-23/07/002	
Name & Add. of Customer	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.				
Dates of Sampling:	13/07/2023	13/07/2023		14/07/2023	
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

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	02/04/2022	01/04/2023
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	02/04/2022	01/04/2023

➢ General Sampling / Monitoring Observation as per CPCB Guideline

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

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	65	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	32	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	14.2	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	18.6	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.4 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

(AMDIENT AIR MONTORING)					
Discipline.	Chemical To	esting	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/0	7/MSEL/A-003	Report Issue Date	28/07/2023	
Service Request form No.:	UERL/AIR/S	RF/07/A-003	Service Request Date	13/07/2023	
Sample ID No.:	UERL/AIR/II	D/07/A-003	Field Data Sheet No.	UERL/AIR/FDS/A-23/07/003	
Name & Add. of Customer	Village Vand	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	13/07/2023	3	Date of Testing	14/07/2023	
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	31/03/2023	30/03/2024

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	m³	1843.2
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	71	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	20	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	13.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	17.4	80	IS 5182 (Part-6)

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

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Page No.5 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

	(AMBLET AR MONTORING)				
Discipline.	Chemical Testing Name of Group Atmospheric Pollution			Atmospheric Pollution	
Test Report No.:	URAL/23/07/MSEL/A-004		Report Issue Date	28/07/2023	
Service Request form No.:	UERL/AIR/SR	F/07/A-004	Service Request Date	14/07/2023	
Sample ID No.:	UERL/AIR/ID/	/07/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/07/004	
Name & Add. of Customer	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.				
Dates of Sampling:	14/07/2023	14/07/2023 Date of Testing 28/07/20			
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Keseard	I Labs PVI. LIG. 24
2.	Flow Rate of PM ₁₀	m³/min	1.29
3.	Volume of Air Sampled for PM ₁₀	m³	1857.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	84	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	26	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	14.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	21.1	80	IS 5182 (Part-6)

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

Checked By:

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Page No.6 UERL/AIR/F-05/05

3.0 NOISE LEVEL MONITORING REPORT



Period: July - 2023

FOR



M/s. Mundra Solar Energy Limited

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

Monitoring Organization



White House
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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/23/07/ MSPVL/N-001	Date Of Report:	28/07/2023
Name & Add. Of Industries	M/s. Mundra Solar Energy 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	03/02/2023	02/02/2024
Sampling Method.	CPCB Guideline			

Date of Monitoring

: 13/07/2023

Result

Sr.	Location within company premises	Noise Le	vel dB(A)	Permissible Limit CPCB	
No.	Location within company premises	Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	61.2	48.2	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	64.3	44.1	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	62.8	43.6	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	66.3	41.5	<75 dB(A)	<70 dB(A)

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

A C l .	0-1	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:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

ENVIRONMENTAL MONITORING REPORT

Period: August - 2023

FOR



M/s. MUNDRA SOLAR PV LIMITED



At

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



Monitoring Organization

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



Period: August - 2023

FOR



M/s.MUNDRA SOLAR PV LIMITED

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





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<u>TEST REPORT</u> (AMBIENT AIR MONITORING)

Chemical Tes URAL/23/08/		Name of Group	Atmospheric Pollution
URAL/23/08/	AACDV / A 004		
	MSPAL/A-001	Report Issue Date	17/08/2023
UERL/AIR/SRI	-/08/A-001	Service Request Date	14/08/2023
UERL/AIR/ID/	08/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/08/001
Village Vandh	& Tunda, Taluka M	,	
14/08/2023	14/08/2023 Date of Testing		16/08/2023
ng:	Near Canteen Area.		
Sampling Method IS:5182(Part-14) and IS:5182 (Part-5)			
	UERL/AIR/ID/ M/s. Mundra Village Vandh Mundra, Kuto 14/08/2023	Mundra, Kutch 370 435, Gujarat. 14/08/2023 Near Canteen Are	UERL/AIR/ID/08/A-001 Field Data Sheet No. M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India. 14/08/2023 Date of Testing ng: Near Canteen Area.

> 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	31/03/2023	30/03/2024
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H H	23.45
2.	Flow Rate of PM ₁₀	m³/min	1.31
3.	Volume of Air Sampled for PM ₁₀	m³	1843.17
4.	Volume of Air Sampled for PM _{2.5}	m ³	23.49

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	76	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	18	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	15.3	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	20.6	80	IS 5182 (Part-6)

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

Checked By:

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Page No.3 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

(AMDIENT AIR MONTORING)				
Discipline.	Chemical Testing	Chemical Testing		Atmospheric Pollution
Test Report No.:	URAL/23/08/MS	PVL/A-002	Report Issue Date	17/08/2023
Service Request form No.:	UERL/AIR/SRF/08	s/A-002	Service Request Date	14/08/2023
Sample ID No.:	UERL/AIR/ID/08/	A-002	Field Data Sheet No.	UERL/AIR/FDS/A-23/08/002
Name & Add. of Customer	M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	14/08/2023	14/08/2023		16/08/2023
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H AND THE SCALOTTE	24.05
2.	Flow Rate of PM ₁₀	m³/min	1.29
3.	Volume of Air Sampled for PM ₁₀	m³	1857.6
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.09

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	72	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	22	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	12.8	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	16.4	80	IS 5182 (Part-6)

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

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TEST REPORT (AMBIENT AIR MONITORING)

(AMDIENT AIR MONTORING)					
Discipline.	Chemical To	esting	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/0	8/MSPVL/A-003	Report Issue Date	17/08/2023	
Service Request form No.:	UERL/AIR/S	RF/08/A-003	Service Request Date	14/08/2023	
Sample ID No.:	UERL/AIR/II	D/08/A-003	Field Data Sheet No.	UERL/AIR/FDS/A-23/08/003	
Name & Add. of Customer	M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.				
Dates of Sampling:	14/08/2023	3	Date of Testing	16/08/2023	
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	H	24.05
2.	Flow Rate of PM ₁₀	m³/min	1.29
3.	Volume of Air Sampled for PM ₁₀	m³	1861.47
4.	Volume of Air Sampled for PM _{2.5}	m ³	24.09

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	71	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	20	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	14.6	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	19.8	80	IS 5182 (Part-6)

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

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TEST REPORT (AMBIENT AIR MONITORING)

(AMDIENT AIR MONTORING)				
Discipline.	Chemical Tes	sting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/08	/MSPVL/A-004	Report Issue Date	17/08/2023
Service Request form No.:	UERL/AIR/SR	F/08/A-004	Service Request Date	15/08/2023
Sample ID No.:	UERL/AIR/ID,	/08/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/08/004
Name & Add. of Customer	M/s. Mundra Solar PV Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	15/08/2023		Date of Testing	17/08/2023
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

➢ General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Kesearc	Labs PVI. Ltd. 24
2.	Flow Rate of PM ₁₀	m³/min	1.30
3.	Volume of Air Sampled for PM ₁₀	m³	1872
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	82	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	24	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	16.3	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	20.7	80	IS 5182 (Part-6)

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

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Page No.6 UERL/AIR/F-05/05

3.0 NOISE LEVEL MONITORING REPORT



Period: August - 2023

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

Test Report No.:	UERL/23/08/ MSPVL/N-001	Date Of Report:	18/08/2023	
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	03/02/2022	02/02/2024
Sampling Method.	CPCB Guideline			

Date of Monitoring : 14/08/2023

Result

Sr.	Location within company premises	Noise Le	evel dB(A)	Permissible Limit CPCB	
No.	Location within company premises	Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	62.8	52.3	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	64.6	55.6	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	62.3	52.7	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	64.5	56.8	<75 dB(A)	<70 dB(A)

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

Auga Carla	Catalana	Limit in o	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:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

ENVIRONMENTAL MONITORING REPORT

Period: September - 2023

FOR



M/s. Mundra Solar Energy Limited



At

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



Monitoring Organization

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

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

QCI-NABET Accredited EIA Consultant Organization GPCB Recognized Environmental Auditor (Schedule-11)

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1.0 AMBIENT AIR QUALITY MONITORING REPORT



FOR



M/s. Mundra Solar Energy Limited

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



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TEST REPORT (AMBIENT AIR MONITORING)

(AMBIENT AIR MONITORING)					
Discipline.	Chemical Tes	ting	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/09/	MSEL/A-001	Report Issue Date	25/09/2023	
Service Request form No.:	UERL/AIR/SRI	F/09/A-001	Service Request Date	19/09/2023	
Sample ID No.:	UERL/AIR/ID/	09/A-001	Field Data Sheet No.	UERL/AIR/FDS/A-23/09/001	
Name & Add. of Customer	Village Vandh	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	19/09/2023	19/09/2023 Date of Testing 20/09/2023			
Location of Sampling / Monitor	ring:	Near Canteen Area.			
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/25	Respirable Dust Sampler	1744-DTA-2013 1127-DTJ-2012	31/03/2023	30/03/2024
UERL/AIR/FPS/51	Fine Particulate Sampler	137-DTD-2013	31/03/2023	30/03/2024

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	m³	1900.8
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	67	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	21	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	15.2	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	18.6	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.3 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

	(/ ((//////////////////////////////////	IN AIR MONTON	,	
Discipline.	Chemical Testin	Chemical Testing		Atmospheric Pollution
Test Report No.:	URAL/23/09/M	SEL/A-002	Report Issue Date	25/09/2023
Service Request form No.:	UERL/AIR/SRF/0	9/A-002	Service Request Date	19/09/2023
Sample ID No.:	UERL/AIR/ID/09	/A-002	Field Data Sheet No.	UERL/AIR/FDS/A-23/09/002
Name & Add. of Customer	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	19/09/2023		20/09/2023	
Location of Sampling / Monitoring: Near ETP Guard Basin (MSTPL)				
Sampling Method	d 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	02/04/2022	01/04/2023
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	02/04/2022	01/04/2023

➢ General Sampling / Monitoring Observation as per CPCB Guideline

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

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	66	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	28	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	15.4	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	19.6	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

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TEST REPORT (AMBIENT AIR MONITORING)

	(Alvi	DIEITI AIK WOTT	Omitoj		
Discipline.	Chemical To	esting	Name of Group	Atmospheric Pollution	
Test Report No.:	URAL/23/0	9/MSEL/A-003	Report Issue Date	25/09/2023	
Service Request form No.:	UERL/AIR/S	SRF/09/A-003	Service Request Date	19/09/2023	
Sample ID No.:	UERL/AIR/II	D/09/A-003	Field Data Sheet No.	UERL/AIR/FDS/A-23/09/003	
Name & Add. of Customer	Village Vand	l ra Solar Energy Lim dh & Tunda, Taluka atch 370 435, Gujara	Mundra,		
Dates of Sampling:	19/09/2023	3	Date of Testing	20/09/2023	
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/22	Fine Particulate Sampler	129-DTB-2013	31/03/2023	30/03/2024

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	1.30
3.	Volume of Air Sampled for PM ₁₀	m³	1872
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	74	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	24	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	16.2	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	21.2	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.5 UERL/AIR/F-05/05



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TEST REPORT (AMBIENT AIR MONITORING)

(AMDERT AIR MONTORING)				
Discipline.	Chemical Tes	sting	Name of Group	Atmospheric Pollution
Test Report No.:	URAL/23/09/MSEL/A-004		Report Issue Date	25/09/2023
Service Request form No.:	UERL/AIR/SR	F/09/A-004	Service Request Date	20/09/2023
Sample ID No.:	UERL/AIR/ID/	/09/A-004	Field Data Sheet No.	UERL/AIR/FDS/A-23/09/004
Name & Add. of Customer	M/s. Mundra Solar Energy Limited Village Vandh & Tunda, Taluka Mundra, Mundra, Kutch 370 435, Gujarat. India.			
Dates of Sampling:	20/09/2023		Date of Testing	25/09/2023
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

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	31/03/2023	30/03/2024
UERL/AIR/FPS/42	Fine Particulate Sampler	125-DTD-2013	31/03/2023	30/03/2024

General Sampling / Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	ment and Keseard	Labs PVI. Liu. 24
2.	Flow Rate of PM ₁₀	m³/min	1.33
3.	Volume of Air Sampled for PM ₁₀	m³	1915.2
4.	Volume of Air Sampled for PM _{2.5}	m³	24.04

Test Parameter Results

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method
1.	Particulate Matter PM ₁₀	μg/m³	88	100	IS 5182 (Part-23)
2.	Particulate Matter PM _{2.5}	μg/m³	26	60	IS 5182 (Part-24)
3.	Sulphur Dioxide as SO ₂	μg/m³	13.5	80	IS 5182 (Part-22)
4.	Nitrogen Dioxide as NO ₂	μg/m³	24.1	80	IS 5182 (Part-6)

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

Page No.6 UERL/AIR/F-05/05

3.0 NOISE LEVEL MONITORING REPORT



Period: September - 2023

FOR



M/s. Mundra Solar Energy Limited

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

Monitoring Organization



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NOISE LEVEL MONITORING REPORT

Test Report No.:	UERL/23/09/ MSPVL/N-001	Date Of Report:	25/09/2023
Name & Add. Of Industries	M/s. Mundra Solar Energy 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	03/02/2023	02/02/2024
Sampling Method.	CPCB Guideline			

Date of Monitoring

: 19/09/2023

Result

Sr.	Location within company premises	Noise Le	evel dB(A)	Permissible Limit CPCB	
No.	Location within company premises	Day Time	Night Time	Day Time	Night Time
1.	North: Near Canteen area	62.8	46.4	<75 dB(A)	<70 dB(A)
2.	South: Near 66 KVA Sub Station	61.5	43.8	<75 dB(A)	<70 dB(A)
3.	East: Near COE Building	64.3	45.6	<75 dB(A)	<70 dB(A)
4.	West: Near ETP Guard basin	67.4	43.7	<75 dB(A)	<70 dB(A)

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

A Cl-	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			

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

Checked By:

Nikunj D. Patel (Chemist)

Authorized By:

Jaivik S. Tandel (Manager - Operations)

MANISH N. MODI MEMBER SECRETARY SEIAA (GUJARAT)



STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY GUJARAT

Government of Gujarat

No. SEIAA/GUJ/EC/3(a)/5 22/2023

Date: F 6 MAY 2023

R.P.A.D.

Time Limit

Sub: Corrigendum in Environment Clearance granted to M/s. Mundra Solar Technology Limited for setting up manufacturing plant of 'Poly Silicon' at Survey No. 180/P, within Notified APSEZ, Village – Wandh, Taluka – Mundra, Kutch.

Ref

- 1. Environment Clearance vide letter No: SEIAA/GUJ/EC/3(a)/2721/2022 Dated 15/11/2022.
- 2. Your online application vide no. SIA/GJ/IND/297747/2023 dated 17/02/2023.

In continuation to the Environment Clearance accorded by the SEIAA vide order no. SEIAA/GUJ/EC/3(a)/2721/2022 Dated 15/11/2022; we have received your online application vide no. SIA/GJ/IND/297747/2023 dated 17/02/2023 seeking corrigendum in Para-1.

And whereas SEIAA has granted Environment Clearance vide office order letter no. : **SEIAA/GUJ/EC/3(a)/2721/2022 Dated 15/11/2022** under the provisions of the EIA Notification, 2006.

And whereas project proponent has applied for corrigendum in the Environment Clearance. The project was scheduled for hearing in this SEAC meeting held on 14/03/2023.

The SEAC, Gujarat had recommended the project vide their letter dated 24/04/2023 to grant corrigendum in 14/03/2023. The proposal was considered by SEIAA, Gujarat in its meeting held on 04/05/2023 at Gandhinagar. After careful consideration, Environment Clearance order dated 15/11/2022 is hereby corrigendum as under.

Para-1 shall now be read as under:

Para-1 of EC letter dated: 15.11.2022 shall be amended as under:

In exercise of the power conferred under the provision of Environmental Impact Assessment (EIA) Notification, 2006 under subrule (3) of Rule-5 of the Environment (Protection) Rules, 1986, the Environment Clearance granted to M/s Mundra Solar Ltd for setting up manufacturing plant of 'Poly Silicon' at Survey No: 180/P, within Notified APSEZ, Mundra, Kutch, vide this office letter No: SEIAA/GUJ/EC/3(a)/1277/2019 dated: 07/09/2019 is being subjected to EC Transfer for the following change in the project.

Rest of the condition of order no. SEIAA/GUJ/EC/3(a)/2721/2022 Dated 15/11/2022 will remain unchanged.

Member Secretary

N. MODI)

Issued to:
M/s. Mundra Solar Technology Limited
Survey No. 180/P, within Notified APSEZ,
Village – Wandh, Taluka – Mundra, Kutch

Copy to:-

1. The Secretary, SEAC, C/O. G.P.C.B. Gandhinagar - 382010.

 The Additional Chief Secretary, Forests & Environment Department, Govt. of Gujarat, Block 14, 8th floor, Sachivalaya, Gandhinagar-382010.

3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD -cum-Office Complex, East Arjun Nagar, New Delhi-110032

4. The Scientist "C", Integrated Regional Office, Ministry of Environment Forest and Climate Change, "Aranya Bhavan"; Sector 10-A; Gandhinagar

5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi-110003.

6. The Member Secretary, Gujarat Pollution Control Board, Paryavaran Bhavan, Sector-10 A, Gandhinagar-382010

Select File.



Office: Gujarat Pollution Control Board, "Paryavaran Bhavan" Sector-10 A, Gandhinagar-382010

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