

HONDA

Honda Cars India Limited
SPL-1, Tapukara Industrial Area
Khushkhera, Distt. - ALWAR
RAJASTHAN 301707
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Receiving

1166IN 144982038441166
KAZARI BASS 3.0 (301018)
Counter No.: 15/09/2021, 12:22
To: ENVIRO ENGI N, RAJ STATE POLLU
PIN: 302003, Rajasthan Secretariate
From: HONDA CARS, TAPUKARA IND AREA
Wt: 70gms
Amt: ₹1.30 (Cash) Tax: ₹.30
Track or www.indiapost.gov.in
Dial 1800265-6000 for more details, stay safe



To,

Sr. Environmental Engineer (MUID)
Rajasthan State Pollution Control Board
4, Institutional Area, Jhalana Doongri
Jaipur (Rajasthan)

Sub: Submission of Environment Statement Report for the FY 2020-21

Ref: CTO license no. for consents issued to HCIL - TKR :
File No: F(HDF)/Alwar(Tijara)/28(1)/2020-2021/457-460.
Order no: 2020-2021/HDF/3026
Unit Id: 3097

Dear Sir,

We are submitting you the Environment Statement for the FY 2020-21 in Form-V based on existing consent as mentioned above.

This is for your kind information & records.

Thanking You,
Yours faithfully,

For Honda Cars India Ltd



(Pravin Chaudhari)
Head - EHS

Cc: The Regional Officer, Rajasthan Pollution Control Board, 8/43-44, N.E.B.,
Housing Board Alwar, Distt.-Alwar (Rajasthan)

Enclosures: Environment Statement Form V

FORM -V

ENVIRONMENT STATEMENT REPORT

From:

1-Apr-20 to 31-Mar-21

---- Submitted By ----

M/s Honda Cars India Ltd.

SPL-1, Tapukara Industrial Area, Khuskhera,

Dist. - Alwar (Rajasthan)

ENVIRONMENT STATEMENT**FORM –V**

(See Rule 14)

Environment Statement for the financial year ending the 31st March 2021**PART –A**

- (i) Name and address of the owner/
Occupier of the industry operation
or process. : Mr. Praveen Paranjape
Honda Cars India Ltd
SPL-1, Tapukara Industrial Area
Khushkhera, Dist. –Alwar (Raj.)
- (ii) Industry category : Red (Large)
- (iii) Production Capacity : As given in below table-

Particular	Type	Quantity with Unit
Cylinder Sleeve	Product	5,50,256
Assembled Passenger Car	Product	1,80,000
Crank Shaft Forging	Product	11,30,160
Crank Shaft Grinding	Product	8,16,000
Con Rod Grinding	Product	8,16,000
Engine Assembly	Product	2,39,360
Engine Block	Product	3,26,200
Engine Head	Product	3,26,200
Mission Assembly	Product	5,44,000
Press Shop (Body Parts Sheet Metal Components)	Product	3,90,000
Front Bumper	Product	1,80,000
Rear Bumper	Product	1,80,000

:

- (i) Year of establishment : Sept – 2008
- (ii) Date of the last environmental statement submitted: **18-Sep-2020**

PART - B

Water and Raw Material Consumption

(i) Water consumption m³/day

Process	KLD	267
Cooling	KLD	382
Domestic	KLD	231
Total	KLD	880

Name of product	Process water consumption per unit of product output	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
Passenger Car	2569.11 liter/Car	2165.37 Liter/Car

(ii) Raw Material Consumption

Name of raw materials	Name of products	UOM	Consumption of raw material per unit of output	
			During the previous financial year (2019 – 20)	During the current financial year (2020-21)
Sheet Metal Blanks	Passenger Car	Kg/Car Set	179.13	247.52
Iron Forging			20.21	19.90
Aluminum Ingot			33.09	29.48
Cylinder sleeve			5.26	6.11

Note: The consumption of raw material as per car is calculated based on total production of car sets in 272 working days as per our CTO.

PART – C
Pollution discharged to environment / Unit of output
(Parameters as specified in the consent issued)

For WATER

(a) ETP Outlet Water

Month	pH	TSS	COD	BOD	Oil & Grease	Copper	Total Cr	Iron	Ni	Dissolved Phosphate	Cr ⁺⁶	Zinc
		mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
RPCB Std	5.5 - 9.0	100	250	30	10	3	2	3	3	5	0.1	5
Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)											
May-20												
Jun-20	7.8	11	40	8	4.20	BDL	BDL	0.69	0.18	1.10	BDL	0.42
Jul-20	7.80	26	64	11.4	5.60	0.63	BDL	1.72	0.97	3.04	BDL	1.40
Aug-20	7.61	10.8	44	9	5.10	0.72	BDL	0.98	0.80	2.67	BDL	0.65
Sep-20	7.68	8.8	56	12.5	6.00	0.61	BDL	0.83	0.93	2.86	BDL	0.61
Oct-20	7.81	29.6	48	9.30	6.60	0.48	BDL	0.83	0.41	2.74	BDL	0.47
Nov-20	8.01	11.7	60	10.7	5.40	0.22	BDL	0.42	0.37	1.60	BDL	0.19
Dec-20	7.95	10.7	64	11.5	5.00	BDL	BDL	BDL	BDL	1.20	BDL	5.00
Jan-21	7.90	8.4	160	28.1	4.70	BDL	BDL	0.52	0.19	0.94	BDL	0.11
Feb-21	8.05	9.7	36	7.60	5.10	BDL	BDL	0.50	0.27	1.20	BDL	BDL
Mar-21	6.45	100	100	17.9	5.30	0.31	BDL	0.59	0.27	1.00	BDL	0.30

BDL: Below Detectable Limit

(b) WWTP Outlet Water

Month	pH	TSS	COD	BO D	O&G	Cu	Total Cr	Fe	Ni	D. Phosp	Zn	Cr ⁺⁶	R. Cr.	N	NO ₃
		mg/l	mg/l	mg/ l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/ l	mg/l
RPCB Std.	5.5- 9.0	100	250	30	10	3	2	3	3	5	0.1	5	1	50	50
Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)														
May- 20															
Jun-20	8.1	16.2	24.0	5.6	4.1	BDL	BDL	BDL	BDL	1.20	BDL	BDL	BDL	5.6	2.2
Jul-20	7.9	16.8	40.0	9.3	4.2	BDL	BDL	0.3	0.11	1.7	BDL	0.2	BDL	4.2	2.9
Aug-20	8.0	13.4	32.0	8.1	4.3	BDL	BDL	0.2	0.13	2.04	BDL	0.2	BDL	3.7	2.6
Sep-20	7.12	9.90	16.0 0	4.3 0	4.70	BDL	BDL	0.12	0.11	1.89	BDL	0.27	BDL	2.5	0.9
Oct-20	7.91	6.10	4.00	0.8 0	4.20	BDL	BDL	0.16	0.07	2.20	BDL	0.11	BDL	2.5	1.3
Nov-20	7.98	5.6	40	9.6	4.2	BDL	BDL	BDL	BDL	1.80	BDL	BDL	BDL	3.7	1.4
Dec-20	7.9	5.1	32	8.4	4.3	BDL	BDL	BDL	BDL	1.94	BDL	BDL	BDL	4	0.51
Jan-21	7.86	5.70	36.0 0	8.2 0	5.70	BDL	BDL	BDL	BDL	0.62	BDL	BDL	BDL	5.7	1.76
Feb-21	7.75	8.8	8	1.7	4.2	BDL	BDL	BDL	BDL	1.60	BDL	BDL	BDL	3.1	1.1
Mar-21	7.26	5.70	8.00	1.9 0	4.50	BDL	BDL	BDL	BDL	1.60	BDL	BDL	BDL	7.6	2.12

BDL: Below Detectable Limit

(c) STP Outlet Water

Month	pH	TSS	COD	BO D	O& G	Cu	Total Cr	Fe	Ni	D. Phosph ate	Zn	Cr ⁺⁶	R. Cr	N	NO ₃
		mg/l	mg/l	mg/ l	mg/ l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/l	mg/ l
RPCB Std.	5.5- 9.0	100	250	30	10	3	2	3	3	5	0.1	5	1	50	50
Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)														
May-20															
Jun-20	8.3	18.5	32.0	7.8	4.0	BDL	BDL	BDL	BDL	1.40	BDL	BDL	BDL	10.7	1.8
Jul-20	8.0	15.7	44.0	10.6	4.2	BDL	BDL	BDL	BDL	0.8	BDL	BDL	BDL	13.7 2	3.0 2
Aug-20	7.8	10.8	36.0	8.7	4.4	BDL	BDL	BDL	BDL	0.90	BDL	BDL	BDL	10.9 2	2.5 3
Sep-20	8.18	19.1 0	40.0 0	9.1 0	4.6 0	BDL	BDL	BDL	BDL	0.83	BDL	BDL	BDL	9.52	1.9 4
Oct-20	8.32	8.40	20.0 0	8.3 2	4.2 0	BDL	BDL	BDL	BDL	1.81	BDL	BDL	BDL	2.94	1.4
Nov-20	7.71	37.3	84	19.8	4	BDL	BDL	BDL	BDL	1.10	BDL	BDL	BDL	3.76	1.8
Dec-20	7.79	19.3	78	18.4	4.2	BDL	BDL	BDL	BDL	1.20	BDL	BDL	BDL	4.2	1.3
Jan-21	7.66	6.20	36.0 0	8.3 0	4.1 0	BDL	BDL	BDL	BDL	3.26	BDL	BDL	BDL	3	1.3
Feb-21	8.18	11.7	76	18.4	4.3	BDL	BDL	BDL	BDL	4.90	BDL	BDL	BDL	3.1	1.3
Mar-21	7.19	11.5 0	44.0 0	8.8 0	4.5 0	BDL	BDL	BDL	BDL	1.30	BDL	BDL	BDL	3.4	1.6

BDL: Below Detectable Limit

For AIR Quality

a) Ambient Air Monitoring (Monthly Average)

*N.T - Not Traceable

Stations/ Area	Month	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	O ₃	Pb	NH ₃	C ₆ H ₆	Benzo Pyrene	As	Ni
		(µg/m ³)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near QE Area	Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)											
	May-20												
	Jun-20	78.7	32.1	5.8	13.5	0.3	7.7	0.3	5.0	N.T	N.T	N.T	0.3
	Jul-20	92.3	43.8	8.4	13.8	0.3	8.0	0.3	6.0	N.T	N.T	N.T	0.4
	Aug-20	71.5	34.9	8.3	14.2	0.3	8.6	0.4	6.4	N.T	N.T	N.T	0.5
	Sep-20	82.7	47.0	21.6	26.3	0.6	16.0	0.1	9.1	N.T	N.T	N.T	1.8
	Oct-20	89.4	48.8	26.9	32.7	0.8	16.7	0.2	13	N.T	N.T	N.T	2
	Nov-20	90.3	47.7	25.0	32.3	0.6	15.4	0.2	11	N.T	N.T	N.T	2
	Dec-20	87.3	41.2	28.5	35.3	1.0	16.4	0.1	11.1	N.T	N.T	N.T	2.2
	Jan-21	87.3	43.9	29.3	33.6	1.0	16.7	0.1	13.5	N.T	N.T	N.T	2.1
	Feb-21	89.4	42.2	30.9	35.1	1.0	17.2	0.2	14.4	N.T	N.T	N.T	2.0
	Mar-21	91.9	42.5	29.6	32.6	0.9	17.5	0.2	14.5	N.T	N.T	N.T	1.9
	Avg.	86.08	42.41	21.43	26.94	0.68	14.02	0.21	10.4	N.T	N.T	N.T	1.52
Stations/ Area	Month	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	O ₃	Pb	NH ₃	C ₆ H ₆	Benzo Pyrene	As	Ni
		(ug/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near ETB	Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)											
	May-20												
	Jun-20	84.0	34.0	6.5	12.8	0.2	7.5	0.2	6	N.T	N.T	N.T	0
	Jul-20	91.6	50.1	9.3	15.1	0.3	8.8	0.2	7	N.T	N.T	N.T	0
	Aug-20	81.9	42.3	8.9	16.2	0.3	9.7	0.3	7	N.T	N.T	N.T	0
	Sep-20	82.5	47.1	22.6	27.7	0.6	14.4	0.2	9	N.T	N.T	N.T	2
	Oct-20	90.8	49.8	29.0	33.6	0.7	15.9	0.2	12	N.T	N.T	N.T	2
	Nov-20	91.4	49.1	25.4	32.6	0.6	15.5	0.2	11	N.T	N.T	N.T	2
	Dec-20	89.9	44.7	28.6	34.8	1.0	16.6	0.3	12	N.T	N.T	N.T	1
	Jan-21	88.9	43.3	29.0	33.6	0.8	17.8	0.4	13	N.T	N.T	N.T	1
	Feb-21	89.4	43.2	30.4	35.2	0.8	19.2	0.2	14	N.T	N.T	N.T	1
	Mar-21	91.0	43.1	28.7	32.8	0.7	18.8	0.2	14	N.T	N.T	N.T	1
	Avg.	88.14	44.67	21.84	27.44	0.6	14.42	0.09	10.5	N.T	N.T	N.T	1

Stations/ Area	Month	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	O ₃	Pb	NH ₃	C ₆ H ₆	Benzo Pyrene	As	Ni
		(ug/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near Admin Building	Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)											
	May-20												
	Jun-20	78.6	33.4	6.1	13.1	0.2	7.9	0.2	5.5	N.T	N.T	N.T	0.3
	Jul-20	91.4	47.0	18.3	14.4	0.3	8.6	0.3	6.1	N.T	N.T	N.T	0.4
	Aug-20	75.9	38.0	8.8	15.4	0.7	9.1	0.4	6.6	N.T	N.T	N.T	0.5
	Sep-20	81.7	48.0	20.8	27.6	0.5	14.4	0.1	9.7	N.T	N.T	N.T	1.5
	Oct-20	88.4	43.7	29.3	35.4	1.0	16.6	0.3	13.1	N.T	N.T	N.T	1.9
	Nov-20	88.3	43.3	31.3	36.2	1.1	16.8	0.2	10.9	N.T	N.T	N.T	2.0
	Dec-20	88.4	43.7	29.3	35.4	1.0	16.6	0.1	11.8	N.T	N.T	N.T	2.5
	Jan-21	88.3	43.3	31.3	36.2	1.1	16.8	0.2	13.4	N.T	N.T	N.T	2.5
	Feb-21	90.0	42.3	32.5	37.3	1.0	17.4	0.2	13.7	N.T	N.T	N.T	2.4
	Mar-21	90.9	43.3	29.0	32.7	0.9	18.5	0.2	14.0	N.T	N.T	N.T	2.2
	Avg.	86.19	42.6	23.67	28.37	0.78	14.27	0.22	10.48	N.T	N.T	N.T	1.62

Note: All the values mentioned above are the average values of each month.

Stations/ Area	Month	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	CO	O ₃	Pb	NH ₃	C ₆ H ₆	Benzo Pyrene	As	Ni
		(ug/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near Forging Building	Apr-20	Not done due to Plant Shutdown (Covid-19 Pandemic)											
	May-20												
	Jun-20	83.4	38.7	6.6	14.3	0.3	8.5	0.3	6.3	N.T	N.T	N.T	0.4
	Jul-20	91.9	53.7	9.8	16.1	0.4	9.4	0.4	7.2	N.T	N.T	N.T	0.5
	Aug-20	91.9	53.7	9.8	16.1	0.4	9.4	0.4	7.2	N.T	N.T	N.T	0.5
	Sep-20	81.1	46.7	9.9	18.4	0.4	10.4	0.4	7.9	N.T	N.T	N.T	0.6
	Oct-20	88.7	47.0	29.2	34.3	0.8	17.9	0.3	14.0	N.T	N.T	N.T	2.0
	Nov-20	87.7	51.5	24.8	31.6	0.6	14.8	0.2	10.8	N.T	N.T	N.T	2.0
	Dec-20	90.8	44.4	28.8	34.9	0.9	16.6	0.1	12.0	N.T	N.T	N.T	2.1
	Jan-21	88.8	43.4	29.4	34.0	0.7	17.4	0.1	13.2	N.T	N.T	N.T	2.1
	Feb-21	91.0	42.6	30.3	32.9	1.0	17.6	0.1	13.8	N.T	N.T	N.T	2.0
	Mar-21	91.6	42.3	29.9	34.0	0.9	16.9	0.2	12.9	N.T	N.T	N.T	2.0
	Avg.	88.69	46.4	20.85	26.66	0.64	13.89	0.25	10.53	N.T	N.T	N.T	1.42

For Process Stack Monitoring

(a) Stack attached to Painting Process

Month	Stack number	SO2	NOx	CO	SPM	VOC
		µg/nm3	µg/nm3	% by Vol	µg/nm3	µg/nm3
RPCB Standards		---	---	---		
Apr-20 & May-20	E-Coat Oven	Not done due to Plant Shutdown (Covid-19 Pandemic)				
	Sealer Oven					
	Top Coat Oven					
	Primer Oven					
	Touch up Oven					
	RTO Exhaust					
	POPA Oven Exhaust					
	Propane/CNG Fired Hot Water Gen.					
Jun-20	E-Coat Oven	BDL	8.5	0.0015	4.3	1
	Sealer Oven	BDL	7.9	0.0012	4	1.5
	Top Coat Oven	BDL	8	0.0022	5.60	1
	Primer Oven	Not in Use				
	Touch up Oven	BDL	6.9	0.002	3.9	1.90
	RTO Exhaust	BDL	30.4	0.0128	12.6	1.9
	POPA Oven Exhaust	BDL	5.8	0.0014	4.2	BDL
	Propane/CNG Fired Hot Water Gen.	7.5	218.2	0.206	27.8	1.1
Jul-20	E-Coat Oven	5	7.2	0.0017	5	1.4
	Sealer Oven	BDL	8.1	0.001	4.6	1.1
	Top Coat Oven	6.1	8.7	0.0028	6.1	1.6
	Primer Oven	Not in Use				
	Touch up Oven	BDL	7.6	0.0023	3.5	2.2
	RTO Exhaust	BDL	34.8	0.0142	11.2	2.2
	POPA Oven Exhaust	BDL	6	0.0016	3.8	BDL
	Propane/CNG Fired Hot Water Gen.	8.1	224.5	0.213	29	1.5
Aug-20	E-Coat Oven	4.7	6.8	0.0019	4.7	1.2
	Sealer Oven	BDL	7.5	0.0014	5	1
	Top Coat Oven	BDL	8.3	0.0025	5.9	1.5
	Primer Oven	Not in Use				
	Touch up Oven	BDL	5.2	0.0021	4	1.1

	RTO Exhaust	BDL	31.9	0.0135	13.8	2
	POPA Oven Exhaust	BDL	5.3	0.0011	4.9	BDL
	Propane/CNG Fired Hot Water Gen.	7.8	216.1	0.203	25.2	1.2
Sep-20	E-Coat Oven	BDL	5.9	0.0021	5.1	1.1
	Sealer Oven	BDL	7.6	0.0016	5.8	1.6
	Top Coat Oven	BDL	7.8	0.0018	6.2	1.4
	Primer Oven	Not in Use				
	Touch up Oven	BDL	6.7	0.0031	4.8	1.3
	RTO Exhaust	BDL	30.5	0.022	14.8	1.9
	POPA Oven Exhaust	BDL	6.1	0.0013	5.2	BDL
	Propane/CNG Fired Hot Water Gen.	6.4	218.5	0.216	26.3	1.1
Oct-20	E-Coat Oven	BDL	6.4	0.0032	5.8	1
	Sealer Oven	BDL	8.2	0.0021	6.7	1.8
	Top Coat Oven	BDL	9	0.0028	8.5	1.3
	Primer Oven	Not in Use				
	Touch up Oven	BDL	7	0.0034	5.2	1.2
	RTO Exhaust	BDL	36.2	0.032	15.8	2.1
	POPA Oven Exhaust	BDL	6.7	0.0022	6.3	BDL
	Propane/CNG Fired Hot Water Gen.	6.8	226.4	0.232	28.1	1.3
Nov-20	E-Coat Oven	BDL	5.9	0.0028	4	1.2
	Sealer Oven	BDL	7.8	0.0025	5.1	1.5
	Top Coat Oven	BDL	8.5	0.0031	7.2	1
	Primer Oven	Not in Use				
	Touch up Oven	BDL	7.8	0.0029	4.8	1.7
	RTO Exhaust	BDL	39.6	0.0038	13.9	2
	POPA Oven Exhaust	BDL	6.2	0.0017	5	BDL
	Propane/CNG Fired Hot Water Gen.	8.9	232.4	0.227	31.6	1
Dec-20	E-Coat Oven	BDL	5.1	0.0031	5.3	1
	Sealer Oven	BDL	7	0.0028	6.2	1.3
	Top Coat Oven	BDL	7.9	0.0035	8.1	1.8
	Primer Oven	Not in Use				
	Touch up Oven	BDL	6.8	0.0026	5	1.2
	RTO Exhaust	BDL	32.2	0.042	14.6	2.3
	POPA Oven Exhaust	BDL	5.4	0.002	4.8	BDL
	Propane/CNG Fired Hot Water Gen.	7.2	226.5	0.214	28.9	1.1

Jan-21	E-Coat Oven	BDL	5.7	0.003	3.8	1.1
	Sealer Oven	4.9	6.9	0.0026	4.9	1.2
	Top Coat Oven	BDL	8.1	0.003	6.8	1.1
	Primer Oven	Not in Use				
	Touch up Oven	BDL	7.2	0.0027	4.9	1.5
	RTO Exhaust	BDL	35.5	0.035	12.8	1.9
	POPA Oven Exhaust	BDL	6	0.0015	5.2	BDL
	Propane/CNG Fired Hot Water Generator	7.8	215.6	0.25	28.4	1.1
Feb-21	E-Coat Oven	BDL	6.4	0.0024	4.5	1
	Sealer Oven	BDL	6.1	0.0029	4	1.3
	Top Coat Oven	BDL	7.5	0.0033	6.1	1.1
	Primer Oven	Not in Use				
	Touch up Oven	BDL	6.9	0.0029	5.3	1.5
	RTO Exhaust	BDL	30.8	0.04	14.2	2.2
	POPA Oven Exhaust	BDL	5.7	0.0012	4.6	BDL
	Propane/CNG Fired Hot Water Generator	8.4	224.9	0.218	34.2	0.98
Mar'21	E-Coat Oven	BDL	5.5	0.0028	3.7	1.2
	Sealer Oven	BDL	6.7	0.0024	4.7	1.3
	Top Coat Oven	BDL	7.8	0.0025	6.5	1
	Primer Oven	Not in Use				
	Touch up Oven	BDL	7.1	0.0028	4.4	1.7
	RTO Exhaust	BDL	31.8	0.031	11.9	1.7
	POPA Oven Exhaust	BDL	5.9	0.0016	4.9	BDL
	Propane/CNG Fired Hot Water Gen	6.9	205.5	0.31	25.6	1

(a) Stack attached to DG sets

Source of sample:				Frequency : Once in a Month		
DG Set (3085 KVA) 1 nos Stack no. 1 DG Sets (1500 KVA) 2 nos Stack no. 2 & 3 DG Set (2000 KVA) 2 nos Stack no. 4 & 5 DG Sets (1500 KVA) 1 nos Stack no. 6						
Month	Stack number	Sulphur Content	NOx	NMHC	CO	Particulate Matter
		%	ppmv	mg/nm ³	mg/nm ³	mg/nm ³
RPCB Standards →		<2	710	100	150	75
Apr-20 & May-20	Stack no.1	Not done due to Plant Shutdown (Covid-19 Pandemic)				
	Stack no.2					
	Stack no.3					
	Stack no.4					
	Stack no.5					
	Stack no.6					
Jun-20	Stack no.1	0.0024	118.6	17.8	90.4	42.2
	Stack no.2	0.0016	77.2	12.3	80.9	38.9
	Stack no.3	0.0013	81.7	13.1	73.5	40.5
	Stack no.4	0.0018	98.3	14.9	79.2	34.8
	Stack no.5	0.0021	95.1	12.4	71.7	37.1
	Stack no.6	0.0025	103.8	15.6	83.5	39.0
Jul-20	Stack no.1	0.0027	127.5	18.5	96.2	40.5
	Stack no.2	0.0021	83.2	11.0	77.5	37.2
	Stack no.3	0.0017	79.8	12.7	80.1	39.8
	Stack no.4	0.0022	106.0	16.3	84.9	43.3
	Stack no.5	0.0019	93.2	14.8	79.4	41.9
	Stack no.6	0.0025	99.7	16.5	87.0	35.1
Aug-20	Stack no.1	0.0025	121.4	16.8	92.7	43.6
	Stack no.2	0.0018	81.9	12.5	75.2	35.2
	Stack no.3	0.0015	78.6	11.8	71.4	38.9
	Stack no.4	0.0020	96.2	13.6	80.6	32.3
	Stack no.5	0.0017	88.3	12.9	77.1	36.8
	Stack no.6	0.0023	97.8	14.7	88.5	40.1
Sep-20	Stack no.1	0.0038	123.6	15.7	88.4	44.8
	Stack no.2	0.0016	93.3	12.2	73.5	38.4
	Stack no.3	0.0026	96.9	13.7	82.2	37.1
	Stack no.4	0.0022	91.4	12.8	78.1	35.3
	Stack no.5	0.0031	92.5	13.1	75.4	39.6
	Stack no.6	0.0025	86.4	14.2	82.7	40.3

Oct-20	Stack no.1	0.0033	128.5	16.3	94.3	52.3
	Stack no.2	0.0025	110.8	23.5	82.4	42.5
	Stack no.3	0.0036	106.6	16.8	80.3	48.2
	Stack no.4	0.0028	96.5	18.2	78.6	34.7
	Stack no.5	0.0034	124.3	20.6	95.4	49.6
	Stack no.6	0.0028	114.9	14.1	90.5	43.8
Nov-20	Stack no.1	0.0038	121.8	18.0	98.2	45.2
	Stack no.2	0.0027	105.2	15.3	75.5	38.0
	Stack no.3	0.0032	113.5	16.0	79.1	35.8
	Stack no.4	0.0025	102.1	20.4	83.3	39.5
	Stack no.5	0.0030	117.3	22.0	88.0	43.1
	Stack no.6	0.0023	109.8	17.1	93.4	40.3
Dec-20	Stack no.1	0.0035	117.6	16.7	89.8	42.6
	Stack no.2	0.0020	101.0	12.6	71.2	33.8
	Stack no.3	0.0034	116.2	14.2	74.6	37.3
	Stack no.4	0.0029	104.6	18.1	30.1	35.0
	Stack no.5	0.0032	115.3	16.0	84.5	40.2
	Stack no.6	0.0025	111.4	15.4	88.0	38.0
Jan-21	Stack no.1	0.0035	118.8	22.2	100.0	41.7
	Stack no.2	0.0025	110.5	17.6	81.1	39.1
	Stack no.3	0.0030	116.6	15.8	77.7	32.8
	Stack no.4	0.0027	105.4	18.0	92.6	37.1
	Stack no.5	0.0029	120.8	14.8	89.9	40.9
	Stack no.6	0.0025	108.2	16.1	97.5	37.8
Feb-21	Stack no.1	0.0042	125.1	19.6	98.6	43.6
	Stack no.2	0.0031	108.6	13.2	78.1	35.8
	Stack no.3	0.0028	112.0	14.8	83.0	38.0
	Stack no.4	0.0036	101.4	16.0	80.2	40.2
	Stack no.5	0.0034	115.2	18.2	85.8	36.9
	Stack no.6	0.0030	104.9	15.9	90.1	32.5
Mar-21	Stack no.1	0.0030	116.0	20.9	97.8	40.5
	Stack no.2	0.0027	109.8	18.1	84.4	37.4
	Stack no.3	0.0033	114.6	16.4	75.1	31.1
	Stack no.4	0.0025	103.4	16.9	90.0	35.5
	Stack no.5	0.0027	119.0	15.1	88.5	38.6
	Stack no.6	0.0022	107.8	15.8	94.6	41.1

(b) Stack attached to Casting Process

Source of sample : GSN fume extractor, HPDC, LPDC & SPC stack				Frequency : Once in a Month	
Month	Stack Detail	SPM	SO ₂	NO _x	CO
		Mg/NM ³	Mg/NM ³	Mg/NM ³	Mg/NM ³
RPCB Standards 		150	-	-	-
Apr-20 & May-20	GSN Batch-1	Not done due to Plant Shutdown (Covid-19 Pandemic)			
	GSN Stack Continuous				
	LPDC Stack				
	HPDC Stack-I				
	HPDC Stack-II				
	SPC Stack				
Jun-20	GSN Stack Batch 1	17.3	6.7	14.8	0.0036
	GSN Stack Continuous	15.6	5.9	15.3	0.0030
	LPDC Stack	2.8	BDL	3.9	BDL
	HPDC Stack-I	3.2	BDL	4.8	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	3.9	BDL	4.5	0.011
Jul-20	GSN Stack Batch 1	16.8	6.9	15	0.0035
	GSN Stack Continuous	18	6.5	17.6	0.0032
	LPDC Stack	3	BDL	4.8	BDL
	HPDC Stack-I	4.1	BDL	6	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	4.8	BDL	6.6	0.015
Aug-20	GSN Stack Batch 1	14.7	6.5	12.8	0.0031
	GSN Stack Continuous	16.4	6	14	0.0028
	LPDC Stack	4.1	BDL	5	BDL
	HPDC Stack-I	6	BDL	5.7	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	5.6	BDL	6.1	BDL
Sep-20	GSN Stack	13.2	7.2	14.6	0.0028
	GSN Stack Continuous	15.6	6.7	15.2	0.0032
	LPDC Stack	7.8	BDL	6.2	BDL
	HPDC Stack-I	6.7	BDL	5.4	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	6.1	BDL	6.4	BDL
Oct-20	GSN Stack Continuous	16.2	7.5	15	0.0038
	GSN Stack	12.8	8.6	15.3	0.003
	LPDC Stack	7.2	BDL	5.8	BDL
	HPDC Stack-I	8.2	BDL	6.4	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	7.8	BDL	6.5	BDL

Nov-20	GSN Stack	10.5	7	12.2	0.0039
	GSN Stack Continuous	14.8	6.2	13.5	0.0034
	LPDC Stack	5.3	BDL	5	BDL
	HPDC Stack-I	6.8	BDL	5.6	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	8.4	BDL	6.2	BDL
Dec-20	GSN Stack	11.2	6.1	14.6	0.0033
	GSN Stack Continuous	12.5	5.3	11.8	0.003
	LPDC Stack	4.8	BDL	3.8	BDL
	HPDC Stack-I	7.3	BDL	6.4	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	9	BDL	5.8	BDL
Jan'21	GSN Stack	15.1	6.1	12.8	0.0038
	GSN Stack Continuous	11.3	6.8	11.9	0.0035
	LPDC Stack	5.2	BDL	5.4	BDL
	HPDC Stack-I	4.1	BDL	6.2	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	10.8	BDL	6.8	BDL
Feb-21	GSN Stack	9.8	7.3	10.8	0.0033
	GSN Stack Continuous	12.6	6.5	12.2	0.0028
	LPDC Stack	4.8	BDL	5	BDL
	HPDC Stack-I	6.3	BDL	7	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	12.8	BDL	6.1	BDL
Mar-21	GSN Stack	10.9	7.6	12.1	0.0081
	GSN Stack Continuous	15.5	7.2	14.9	0.0095
	LPDC Stack	5.5	BDL	5.7	BDL
	HPDC Stack-I	4.9	BDL	6	BDL
	HPDC Stack-II	Stand By -Not in Operation			
	SPC Stack	10.2	BDL	6.1	BDL

(c) Noise Monitoring

Source of sample : East: East of Press Shop, North: North side of WTP, South: South of PT Shop, West: West of PT Shop			
Month	Location	Noise Level	
		Day Time (dB)	Night Time (dB)
Standards 		75	70
June-20 (Monitoring done in June instead of April due to Covide-19)	East: East of Test Track	65.1	52.9
	North: North side of ETB	61.7	60.3
	South: South of Admin Building	60.7	55.2
	West: West of Forging Shop	62.3	60.1
Jul-20	East: East of Test Track	62.2	53.7
	North: North side of ETB	65	62.6
	South: South of Admin Building	59.8	51.4
	West: West of Forging Shop	64.2	61.9
Oct-20	East: East of Test Track	52.7	48.7
	North: North side of ETB	63.9	61.5
	South: South of Admin Building	59.6	51.3
	West: West of Forging Shop	63.6	61.7
Jan-21	East: East of Test Track	63.2	55.4
	North: North side of ETB	65.7	63.2
	South: South of Admin Building	61.5	53.7
	West: West of Forging Shop	65.1	62.6

PART -D

HAZARDOUS WASTE

as specified under Hazardous and Other Waste (Management & Transboundary Movement) Rules, 2016

Hazardous Waste	Total Quantity (Kg.)	
	During the previous financial year (2019-20)	During the current financial year (2020-21)
(a) From process		
Category 5.1- Used Oil/Spent Oil	134,000 Liters	74,000 Liters
Category 5.2- waste & Residue Containing Oil	187,000 Kg	193,000 Kg
Category 12.5 – Phosphate Sludge	29,000 Kg	54,000 Kg
Category 21.2 – Spent Solvent	52,000 Liters	69,000 Liters
Category 21.1 – Process Waste residues	116,000 Kg	83,000 Kg
Category 33.1 - Empty Barrels	36012 Nos	34139 Nos
Category 11.4 – Flue gas dust & other particulars	25000 Kg	26,000 Kg
(b) From pollution control facilities		
Category 35.3 – ETP,WWTP Sludge	382,000 Kg	395,000 Kg

PART - E

SOLID WASTE

		Total Quantity	
		During the previous financial year (2019-20)	During the current financial year (2020-21)
(a)	From process	14081	13929
(b)	From pollution control facility	Nil	Nil
(c)	(1) Qnty recycled or re-utilized within the unit	Nil	Nil
	(2) Sold to recycler (tons)	13869	13763
	(3) Disposed (Mix Malwa & Garbage in tons)	212	174

PART - F

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

Category 5.1 – Used Oil	Stored in Steel drums and sent for recycling to the authorized recycler.
Category 5.2 – Waste & Residue containing oil	Oil soaked cotton waste is stored in HDPE bags and sent for the registered recycler for co processing in the kiln.. Grinding Sludge stored in HDPE bags and sent for Co-Processing.
Category 12.5 – Phosphate Sludge	Phosphate Sludge is stored in container and sent for land filling to CTDF Udaipur.
Category 21.2 – Spent Solvent	Spent Solvent collected in mild steel drums and sent for recycling to the authorized recycler.
Category 21.1 – Paint Sludge	Paint sludge is sent to the registered recycler for co processing in the kiln.
Category 33.1 – Empty Barrels	All the oil and paint contaminated empty barrels are sent to Registered Recycler for recycling.
Category 35.3 – ETP Sludge	Stored in HDPE Bags and sent for land filling to CTDF Udaipur.

PART-G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of Production:

1. Establishment of Zero Liquid discharge plant including Multistage RO plant for 100% re utilization of WWTP & ETP treated water in process – investment INR 153 Million.
2. Utilization of CETP Water for internal horticulture use - Investment (INR 5 Million).
3. Installation of 3.7 MW solar power plant inside plant premises to increase the renewal energy resource consumption.
4. PM Emission through installation of Dust Collector and Bag filters on Casting Stack. (Investment 50 Million).
5. Rain Water Harvesting facility having recharge Capacity of 1.234 MCM.

PART - H

Additional measures / investment proposal for environment protection including abatement of pollution prevention of pollution:

1. Electricity Consumption reduction of Approx. 400 MWH/ Year by different activities like – Automation of start/ Stop of office lights, Cooling towers fans, Exhaust Fans timing, reducing operation time by change in program, replacement of low efficient CT motors to high efficient in FE area, VFA installation in Spray Wash Pump etc. - Investment INR 4.5 Million.
2. Water Consumption reduction of Approx. 9233 KL by different activities; like Optimization and automation of cooling towers, Modification in piping network to recover the fire water used in pump trials, Recovery of Blow down water of SPC cooling tower and usage in recycle process, Utilization of ASU chiller condensate water in cooling tower, etc. - Investment INR 0.2 Million.

PART - I

Any other particular for improving the quality of the environment:

1. Food Waste Reduction by Periodic Awareness Drive in all Canteens for Reduction in Plate Food Wastage from 22 to 22 Gms./ Person
2. To recue air pollution by replacing damaged and dead tree – 500 Nos.
3. CO₂ emission reduction by CBU Dispatches through Train Mode – from 16229 to 12764 Tons