

HONDA

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

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Date: 28-Sep-23

To,

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

Sub: Submission of Environment Statement Report for the FY 2022-23

Ref: CTO license no. for consents issued to HCIL – TKR :

File No: F(HDF)/Alwar(Tijara)/6986(1)/2022-2023/6339-6341.

Order no: 2022-2023/HDF/9241

Unit Id: 3097

Dear Sir,

We are submitting you the Environment Statement for the FY 2022-23 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


Authorized Signatory

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

Enclosures: Environment Statement Form V

FORM -V

ENVIRONMENT STATEMENT REPORT

From:

1-Apr-22 to 31-Mar-23

---- 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 2023

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
Bumper (Plastic Molded) & Other Product	Product	7,40,880

:

- (i) Year of establishment : Sept – 2008
- (ii) Date of the last environmental statement submitted: **25-Sep-2022**

PART - B

Water and Raw Material Consumption

(i) Water consumption m³/day

Process	KLD	475
Cooling	KLD	522
Domestic	KLD	228
Total	KLD	1225

Name of product	Process water consumption per unit of product output	
	During the previous financial year (2021-22)	During the current financial year (2022-23)
Passenger Car	2481.80 Liter/Car	2330.70 Liter/Car

(ii) Raw Material Consumption

Name of raw materials	Name of products	UOM	Consumption of raw material per unit of output	
			During the current financial year (2021-22)	During the current financial year (2022-23)
Sheet Metal Blanks	Passenger Car	Kg/Car Set	182.95	178.11
Iron Forging			18.23	15.92
Aluminum Ingot			33.56	36.43
Cylinder sleeve			5.12	4.95

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	Zinc
		<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>
RPCB Std	5.5 - 9.0	100	250	30	10	3	2	3	3	5	5
Apr-22	7.32	6.35	88	13.4	4.5	0.39	BDL	1.05	0.74	2.93	0.61
May-22	7.29	21.5	116	18.3	4.3	0.51	BDL	0.93	0.49	1.94	0.75
Jun-22	7.54	10.3	120	18.7	5.9	0.73	BDL	1.05	0.52	2.1	0.80
Jul-22	7.62	9.6	136	24.2	5.4	2.44	BDL	2.25	BDL	0.70	1.14
Aug-22	7.54	10.2	92	15.7	6.7	2.60	BDL	2.4	BDL	0.75	1.29
Sep-22	6.44	7.9	32	4.5	5.2	BDL	BDL	2.8	BDL	0.43	1.22
Oct-22	7.33	14.4	170	21	6.4	0.08	0.30	1.09	BDL	0.35	0.14
Nov-22	7.45	29.4	96	17.2	4.8	2.18	BDL	2.02	BDL	0.79	1.19
Dec-22	7.36	16.8	188	19	4.4	0.99	BDL	2.29	BDL	0.99	1.30
Jan-23	7.36	59.3	188	24	4.7	1.2	BDL	1.9	BDL	0.09	1.45
Feb-23	7.15	21.4	144	28.9	5.4	1.64	BDL	2.14	0.41	0.24	1.06
Mar-22	6.94	18.7	5.2	16.6	5.2	1.47	BDL	1.89	0.33	0.03	0.92

BDL: Below Detectable Limit

(b) WWTP Outlet Water

Month	pH	TSS	COD	BOD	O&G	Cu	Total Cr	Fe	Ni	D. Phosp	Zn
		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	100	250	30	10	3	2	3	3	5	0.1
Apr-22	7.15	11.5	24	3.8	4.3	0.62	BDL	1.47	0.71	3.34	0.90
May-22	6.72	8.3	8	1.5	4.3	0.39	BDL	0.96	0.74	2.96	0.67
Jun-22	7.32	6.8	36	5.1	4.5	0.28	BDL	1.07	0.88	2.98	0.68
Jul-22	7.16	5.5	48	8.2	4.2	1.64	BDL	0.97	BDL	1.46	0.28
Aug-22	7.25	7.2	52	9.3	4.4	1.57	BDL	1.06	0.12	1.38	0.33
Sep-22	8.03	5.3	24	4.2	4.4	1.82	BDL	0.82	BDL	0.24	0.38
Oct-22	6.73	4.6	16	5	4.2	0.70	BDL	0.81	0.13	3.22	0.53
Nov-22	7.47	11.2	56	10.7	6.5	1.95	BDL	1.17	BDL	4.6	0.56
Dec-22	7.08	3.2	12	1.8	4.2	2.15	BDL	1.22	BDL	2.1	0.71
Jan-22	7.31	5.6	28	5.2	4	1.7	BDL	1.2	BDL	1.5	0.55
Feb-23	6.97	4.1	12	3.6	4.6	1.26	BDL	1.46	0.43	2.89	0.94
Mar-23	6.65	3.8	4	BDL	4.1	1.19	BDL	0.95	0.34	0.98	0.61

BDL: Below Detectable Limit

(c) STP Outlet Water

Month	pH	TSS	COD	BOD	O&G	R. Cr	NO ₃	A. Nitrogen	F.coli
		<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>mg/l</i>	<i>MPN/100ml</i>
RPCB Std.	5.5- 9.0	100	250	30	10	1	50	50	1000
Apr-22	7.16	6.2	40	8.1	4.20	BDL	0.97	0.22	112
May-22	7.33	4.1	40	7.4	4.1	BDL	5.72	0.18	118
Jun-22	7.51	8.5	64	11.5	4.8	BDL	6.2	0.11	112
Jul-22	7.31	8.3	40	6.4	4.2	BDL	7.33	5.88	121
Aug-22	7.47	9.3	60	10.67	4	BDL	7.48	10.10	114
Sep-22	6.85	7	12	2.1	4.1	BDL	6.94	0.41	107
Oct-22	7.14	5	12	4.1	4	BDL	5.68	0.98	102
Nov-22	7.73	6.7	24	4.1	4.2	BDL	0.21	BDL	90
Dec-22	7.18	5.3	16	2.4	4.4	BDL	0.36	BDL	80
Jan-23	7.21	6.4	28	5.8	4.2	BDL	BDL	BDL	74
Feb-23	7.27	2.6	16	4.8	4.8	BDL	1.04	0.84	68
Mar-23	7.02	4.6	60	12	4.2	BDL	1.19	0.76	66

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-22	88	48	35	37	1	23	0	28	N.T	N.T	N.T	1
	May-22	89	46	36	40	1	25	0	31	N.T	N.T	N.T	1
	Jun-22	89.7	46.9	30.1	36.1	0.6	23.3	0.1	27.3	N.T	N.T	0.6	1.4
	Jul-22	90.1	47.2	29.4	35.7	0.6	24.2	0.1	17.4	N.T	N.T	0.4	0.6
	Aug-22	87.8	46.8	25.6	31.6	0.4	19.7	0.2	11.9	N.T	N.T	0.3	0.6
	Sep-22	90.4	47.2	27.2	33.4	0.6	21.3	0.1	21.4	N.T	N.T	0.4	0.9
	Oct-22	89.0	47.8	28.8	32.0	0.7	24.6	0.2	26.5	N.T	N.T	0.4	0.8
	Nov-22	89.2	47.1	30.8	30.9	0.7	24.5	0.2	28.6	N.T	N.T	0.6	0.8
	Dec-22	88.6	49.7	29.7	36.0	0.6	22.7	0.2	27.2	N.T	N.T	0.5	0.9
	Jan-23	89.7	48.6	28.5	37.6	0.6	20.5	0.2	22.0	N.T	N.T	0.7	0.9
	Feb-23	85.2	49.7	29.9	36.2	0.6	20.3	0.2	57.6	N.T	N.T	0.6	0.7
	Mar-23	89.2	48.2	28.2	33.8	0.6	21.2	0.2	26.7	N.T	N.T	0.6	0.7
Avg.	89	48	30	35	1	22	0.2	22.4	N.T	N.T	N.T	0.9	
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/m ³)													
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near ETB	Apr-22	90	47	33	37	1	22	0.16	27	N.T	N.T	N.T	1
	May-22	89	47	35	41	1	25	0.17	30	N.T	N.T	N.T	1
	Jun-22	90	46	31	37	1	23	0.15	27	N.T	N.T	1	1
	Jul-22	90	47	29	35	1	24	0.14	16	N.T	N.T	0	1
	Aug-22	90	49	26	33	0	21	0.11	12	N.T	N.T	0	1
	Sep-22	91	49	29	34	1	25	0.13	25	N.T	N.T	0	1
	Oct-22	90	48	31	33	1	26	0.16	29	N.T	N.T	0	1
	Nov-22	90	48	31	33	1	27	0.1	28	N.T	N.T	0	1
	Dec-22	90	49	41	35	1	24	0.11	28	N.T	N.T	1	1
	Jan-23	89	48	31	37	1	23	0.09	27	N.T	N.T	1	1
	Feb-23	85	50	30	36	1	20	0.1	58	N.T	N.T	1	1
	Mar-23	88	49	29	34	1	21	0.15	32	N.T	N.T	1	1
Avg.	89	48	31	36	1	23	0.1	22	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-22	87.3	46.8	33.6	36.8	0.9	22.5	0.2	27.2	N.T	N.T	N.T	0.9
	May-22	87.9	46.1	34.4	39.5	0.9	25.0	0.2	29.4	N.T	N.T	N.T	0.9
	Jun-22	90.0	45.7	29.4	34.7	0.6	23.6	0.1	24.7	N.T	N.T	0.6	1.3
	Jul-22	88.7	48.2	28.9	33.4	0.6	25.5	0.1	16.9	N.T	N.T	0.3	0.7
	Aug-22	88.9	47.0	29.4	35.9	0.4	22.6	0.2	14.0	N.T	N.T	0.4	0.7
	Sep-22	91.0	50.9	28.5	32.6	0.6	22.5	0.1	22.2	N.T	N.T	0.4	0.9
	Oct-22	89.7	47.6	31.2	34.3	0.7	25.0	0.2	27.5	N.T	N.T	0.4	0.9
	Nov-22	88.8	47.0	28.0	32.5	0.7	22.3	0.1	24.7	N.T	N.T	0.5	0.8
	Dec-22	89.2	49.2	29.5	35.8	0.6	21.9	0.2	20.3	N.T	N.T	0.6	0.9
	Jan-23	89.6	50.5	26.4	33.0	0.6	19.8	0.2	23.0	N.T	N.T	0.6	0.8
	Feb-23	89.2	49.3	28.2	34.8	0.6	20.9	0.2	26.9	N.T	N.T	0.6	0.7
Mar-23	87.6	48.6	26.9	30.1	0.5	20.8	0.2	27.7	N.T	N.T	0.5	0.6	
	Avg.	89	48	30	34	1	23	0.22	23.48	N.T	N.T	N.T	0.9

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-22	86.6	46.7	35.5	37.4	0.9	22.5	0.3	29.3	N.T	N.T	N.T	0.9
	May-22	87.6	46.1	35.0	39.0	0.9	25.8	0.2	30.4	N.T	N.T	N.T	0.9
	Jun-22	87.6	45.4	30.6	35.2	0.7	24.5	0.1	26.9	N.T	N.T	0.7	1.4
	Jul-22	88.0	48.8	31.8	38.7	0.6	26.4	0.1	19.0	N.T	N.T	0.4	0.7
	Aug-22	87.2	45.1	31.5	39.2	0.4	24.5	0.2	16.4	N.T	N.T	0.4	0.8
	Sep-22	91.3	50.0	29.1	33.0	0.6	23.1	0.1	22.2	N.T	N.T	0.5	1.0
	Oct-22	89.1	47.7	30.3	33.6	0.7	25.2	0.2	25.1	N.T	N.T	0.4	0.9
	Nov-22	88.8	46.5	32.9	36.4	0.7	26.4	0.2	24.9	N.T	N.T	0.6	0.8
	Dec-22	89.5	47.8	30.4	36.8	0.6	21.4	0.2	19.4	N.T	N.T	0.7	1.0
	Jan-23	89.2	48.3	31.1	36.9	0.7	22.2	0.2	26.4	N.T	N.T	0.6	0.8
	Feb-23	89.5	49.8	31.0	37.0	0.7	20.6	0.2	26.4	N.T	N.T	0.6	0.8
Mar-23	90.9	47.8	30.0	32.9	0.6	20.0	0.2	29.7	N.T	N.T	0.5	0.7	
	Avg.	89	47	32	36	1	24	0.2	26	N.T	N.T	N.T	1.42

For Process Stack Monitoring

(a) Stack attached to Painting Process

Month	Stack number	SO ₂	NO _x	CO	SPM	VOC
		µg/nm ³	µg/nm ³	% by Vol	µg/nm ³	µg/nm ³
RPCB Standards		—	—	—		
Apr-22	E-Coat Oven	BDL	18.2	11.9	15.5	1.7
	Sealer Oven	BDL	21.5	13.2	11.7	1.32
	Top Coat Oven	BDL	19.4	14.7	12.3	1.12
	Primer Oven					
	Touch up Oven	BDL	16.5	11.5	11	1.18
	RTO Exhaust	BDL	22.7	11.6	17.2	2.02
	POPA Oven Exhaust	BDL	19.3	13	14	BDL
	Propane/CNG Fired Hot Water Gen.	14.2	42.5	17.4	26.9	0.98
May'22	E-Coat Oven	BDL	18.86	12.90	14.81	1.5
	Sealer Oven	BDL	22.11	14.44	10.94	1.35
	Top Coat Oven	BDL	20.46	15.86	11.16	1.18
	Primer Oven					
	Touch up Oven	BDL	18.12	11.21	10.98	1.21
	RTO Exhaust	BDL	21.94	11.81	16.68	1.88
	POPA Oven Exhaust	BDL	19.88	12.92	14.89	0.89
	Propane/CNG Fired Hot Water Gen.	17.16	40.62	20.81	27.88	0.70
Jun'22	E-Coat Oven	BDL	19.96	21.41	15.46	1.41
	Sealer Oven	BDL	17.21	20.94	11.28	1.28
	Top Coat Oven	BDL	18.34	19.55	12.35	1.10
	Primer Oven					
	Touch up Oven	BDL	17.46	20.89	12.10	1.18
	RTO Exhaust	BDL	20.25	18.13	16.20	1.21
	POPA Oven Exhaust	BDL	18.86	15.62	15.34	0.96
	Propane/CNG Fired Hot Water Generator	15.62	34.80	20.94	24.89	0.72
	E-Coat Oven	BDL	19.40	13.55	15.59	1.40
	Sealer Oven	BDL	21.90	15.78	10.88	1.28
	Top Coat Oven	BDL	19.84	16.17	11.78	1.10

Jul'22	Primer Oven					
	Touch up Oven	BDL	18.62	13.01	11.21	1.18
	RTO Exhaust	BDL	22.36	13.18	17.14	1.69
	POPA Oven Exhaust	BDL	18.80	12.98	14.98	0.92
	Propane/CNG Fired Hot Water Generator	16.81	38.27	22.94	25.46	0.72
Aug'22	E-Coat Oven	BDL	20.18	14.05	16.40	1.33
	Sealer Oven	BDL	22.47	15.90	11.28	1.24
	Top Coat Oven	BDL	19.92	16.38	13.15	1.19
	Primer Oven					
	Touch up Oven	BDL	18.81	13.58	12.74	1.22
	RTO Exhaust	BDL	21.84	13.70	15.81	1.58
	POPA Oven Exhaust	BDL	19.11	12.76	13.23	0.90
	Propane/CNG Fired Hot Water Generator	14.21	37.92	25.27	23.41	0.75
Sep'22	E-Coat Oven	BDL	19.54	12.11	17.12	1.25
	Sealer Oven	BDL	21.64	14.36	12.68	1.18
	Top Coat Oven	BDL	17.98	15.21	12.65	1.21
	Primer Oven					
	Touch up Oven	BDL	16.91	14.32	14.01	1.16
	RTO Exhaust	BDL	20.95	14.74	15.81	1.49
	POPA Oven Exhaust	BDL	18.64	13.25	14.75	1.04
	Propane/CNG Fired Hot Water Generator	16.24	35.19	24.36	25.12	0.71
Oct'22	E-Coat Oven	BDL	17.52	10.69	18.14	1.34
	Sealer Oven	BDL	19.60	13.19	14.26	1.26
	Top Coat Oven	BDL	21.51	16.56	13.19	1.19
	Primer Oven					
	Touch up Oven	BDL	18.76	15.42	16.19	1.12
	RTO Exhaust	BDL	20.20	17.56	18.76	1.40
	POPA Oven Exhaust	BDL	19.30	14.76	17.20	1.30
	Propane/CNG Fired Hot Water Generator	18.62	33.54	22.51	22.70	0.64
	E-Coat Oven	BDL	18.60	0.13	17.81	1.20
	Sealer Oven	BDL	20.25	0.15	13.77	1.15

	Top Coat Oven	BDL	20.44	0.16	12.99	1.18
Nov'22	Primer Oven					
	Touch up Oven	BDL	19.22	0.14	15.62	1.12
	RTO Exhaust	BDL	22.16	0.11	17.28	1.38
	POPA Oven Exhaust	BDL	17.90	0.12	16.13	1.28
	Propane/CNG Fired Hot Water Generator	19.42	30.86	25.10	23.58	0.70
	Dec'22	E-Coat Oven	BDL	18.60	0.13	17.81
Sealer Oven		BDL	20.25	0.15	13.77	1.15
Top Coat Oven		BDL	20.44	0.16	12.99	1.18
Primer Oven						
Touch up Oven		BDL	22.1	0.20	15.10	1.05
RTO Exhaust		BDL	20.98	0.35	18.10	1.25
POPA Oven Exhaust		BDL	19.31	0.29	15.84	1.14
Propane/CNG Fired Hot Water Generator		22.35	33.69	35.61	24.10	0.74
Jan'23	E-Coat Oven	BDL	17.50	0.15	15.6	1.10
	Sealer Oven	BDL	20.40	0.13	15.3	1.20
	Top Coat Oven	BDL	18.30	0.14	13	1.15
	Primer Oven					
	Touch up Oven	BDL	21.40	0.17	13.8	1.08
	RTO Exhaust	BDL	19.30	0.28	17.9	1.12
	POPA Oven Exhaust	BDL	20	0.25	15.80	1.09
	Propane/CNG Fired Hot Water Generator	13.4	38.20	25.2	21	0.48
Feb'23	E-Coat Oven	BDL	19.4	0.16	14.2	1.12
	Sealer Oven	BDL	18.6	0.14	16.7	1.10
	Top Coat Oven	BDL	21.2	0.17	14.2	1.19
	Primer Oven					
	Touch up Oven	BDL	23	0.19	14.7	1
	RTO Exhaust	BDL	20.2	0.18	18.2	1.06
	POPA Oven Exhaust	BDL	18.9	0.20	14.9	1.14
	Propane/CNG Fired Hot Water Generator	11.5	32.7	27.4	22.2	0.57
	E-Coat Oven	BDL	21.2	0.18	10.17	14.8

Mar'23	Sealer Oven	BDL	19.5	0.16	16.2	1.17
	Top Coat Oven	BDL	22.7	0.19	14.8	1.31
	Primer Oven					
	Touch up Oven	BDL	21.9	0.20	15.1	1.11
	RTO Exhaust	BDL	24.5	0.17	17.8	1.20
	POPA Oven Exhaust	BDL	22.7	0.19	15.4	1.26
	Propane/CNG Fired Hot Water Generator	12.4	31	25.1	19.7	0.67

(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-22	Stack no.1	BDL	172.5	34.6	142.0	70.2
	Stack no.2	BDL	149.2	24.5	127.5	52.6
	Stack no.3	BDL	146.7	26.6	119.6	48.6
	Stack no.4	BDL	167.4	29.2	128.5	60.2
	Stack no.5	BDL	158.2	26.7	131.4	59.2
	Stack no.6	BDL	156.4	24.7	124.5	55.8
May-22	Stack no.1	BDL	194.6	35.5	146.9	72.2
	Stack no.2	BDL	168.2	24.8	135.7	56.6
	Stack no.3	BDL	140.8	26.2	125.6	52.1
	Stack no.4	BDL	178.4	30.9	132.2	71.8
	Stack no.5	BDL	182.3	33.4	138.7	70.6
	Stack no.6	BDL	170.2	25.1	128.9	60.0
Jun-22	Stack no.1	BDL	214.48	36.1	148.9	70.2
	Stack no.2	BDL	171.6	23.94	131.9	52.3
	Stack no.3	BDL	159.49	27.1	124.6	54.2
	Stack no.4	BDL	190.1	28.18	138.2	68.6
	Stack no.5	BDL	181.37	28.13	134.6	66.9

	Stack no.6	BDL	168.2	24.9	127.7	58.8
Jul-22	Stack no.1	BDL	212.7	33.1	146.0	73.1
	Stack no.2	BDL	159.3	25.2	130.7	58.3
	Stack no.3	BDL	155.3	27.2	128.5	61.4
	Stack no.4	BDL	173.9	29.8	137.4	71.0
	Stack no.5	BDL	185.3	31.5	134.9	68.9
	Stack no.6	BDL	162.4	26.2	124.7	60.3
Aug-22	Stack no.1	BDL	204.3	30.2	140.0	72.9
	Stack no.2	BDL	166.9	26.2	132.5	69.2
	Stack no.3	BDL	154.5	28.1	124.2	66.1
	Stack no.4	BDL	171.8	29.0	134.7	68.2
	Stack no.5	BDL	178.6	32.3	130.2	67.9
	Stack no.6	BDL	159.4	26.8	128.7	65.5
Sep-22	Stack no.1	BDL	210.3	34.7	142.2	71.1
	Stack no.2	BDL	177.2	27.1	138.7	68.2
	Stack no.3	BDL	161.4	28.1	126.8	65.2
	Stack no.4	BDL	182.4	28.7	137.8	67.3
	Stack no.5	BDL	189.1	31.0	132.9	68.7
	Stack no.6	BDL	169.3	28.1	129.2	66.5
Oct-22	Stack no.1	Not in Operation				
	Stack no.2	BDL	110.2	22.1	19.5	35.4
	Stack no.3	BDL	98.4	22.1	37.9	31.1
	Stack no.4	BDL	134.9	27.0	48.1	41.2
	Stack no.5	BDL	140.1	26.8	50.3	39.9
	Stack no.6					
Nov-22	Stack no.1	Not in Operation				
	Stack no.2	BDL	112.9	21.2	42.5	37.8
	Stack no.3	BDL	105.3	22.5	47.2	35.0
	Stack no.4	BDL	137.3	23.8	51.4	43.6
	Stack no.5	BDL	131.9	26.1	59.2	40.7
	Stack no.6	BDL	158.3	26.1	62.8	39.9
Dec-22	Stack no.1	Not in Operation				
	Stack no.2	BDL	92.6	17.4	40.2	38.1000
	Stack no.3	BDL	97.4	17.8	44.8	36.6000
	Stack no.4	BDL	105.3	20.3	51.4	46.1000

	Stack no.5	BDL	100.8	18.1	58.8	42.9000
	Stack no.6	BDL	114.2	19.8	66.7	39.3
Jan-23	Stack no.1	Not in Operation				
	Stack no.2	BDL	95.1	15.8	38.2	40.0
	Stack no.3	BDL	96.3	16.5	45.3	38.2
	Stack no.4	BDL	109.4	17.3	60.8	45.2
	Stack no.5	BDL	99.8	17.5	58.7	43.2
	Stack no.6	BDL	89.2	16.3	48.2	39.8
Feb-23	Stack no.1	Not in Operation				
	Stack no.2	BDL	88.7	46.7	42.7	46.7
	Stack no.3	BDL	90.2	17.5	48.7	41.2
	Stack no.4	BDL	98.7	18.4	56.2	41.2
	Stack no.5	BDL	94.2	17.1	52.4	47.4
	Stack no.6	BDL	91.4	16.9	57.7	41.7
Mar-23	Stack no.1	Not in Operation				
	Stack no.2	BDL	89.4	15.6	41.2	43.7
	Stack no.3	BDL	84.7	16.8	47.3	44.2
	Stack no.4	BDL	91.5	17.5	51.2	42.6
	Stack no.5	BDL	96.3	17.9	48.7	45.2
	Stack no.6	BDL	87.3	16.8	52.0	45.6

(b) Stack attached to Casting Process

Month	Stack Detail	SPM
		Mg/NM ³
RPCB Standards →		150
Apr-22	GSN Batch-1	19.7
	GSN Stack Continuous	21.2
	LPDC Stack	Not in operation
	HPDC Stack-I	18.3
	HPDC Stack-II	Not in operation
	SPC Stack	14.7
May-22	GSN Batch-1	20.44
	GSN Stack Continuous	23.31
	LPDC Stack	17.05
	HPDC Stack-I	15.9
	HPDC Stack-II	Not in operation
	SPC Stack	13.8

Jun-22	GSN Stack Batch 1	19.18
	GSN Stack Continuous	21.64
	LPDC Stack	15.16
	HPDC Stack-I	12.80
	HPDC Stack-II	Not in operation
	SPC Stack	14.10
Jul-22	GSN Stack Batch 1	23.10
	GSN Stack Continuous	21.32
	LPDC Stack	Not in operation
	HPDC Stack-I	14.7
	HPDC Stack-II	Not in operation
	SPC Stack	Not in operation
Aug-22	GSN Stack Batch 1	24.63
	GSN Stack Continuous	20.81
	LPDC Stack	16.90
	HPDC Stack-I	15.98
	HPDC Stack-II	17.55
	SPC Stack	13.76
Sep-22	GSN Stack	21.48
	GSN Stack Continuous	18.57
	LPDC Stack	15.62
	HPDC Stack-I	17.1
	HPDC Stack-II	18.25
	SPC Stack	14.62
Oct-22	GSN Stack Continuous	23.5
	GSN Stack	21.5
	LPDC Stack	18.52
	HPDC Stack-I	19.40
	HPDC Stack-II	21.71
	SPC Stack	17.22
Nov-22	GSN Stack	22.16
	GSN Stack Continuous	20.92
	LPDC Stack	17.1
	HPDC Stack-I	18.60
	HPDC Stack-II	20.48
	SPC Stack	Not in operation
Dec-22	GSN Stack	21.6
	GSN Stack Continuous	18.8
	LPDC Stack	15.4
	HPDC Stack-I	16.8
	HPDC Stack-II	19.2
	SPC Stack	14.1

Jan-23	GSN Stack	20.8
	GSN Stack Continuous	19.2
	LPDC Stack	16.3
	HPDC Stack-I	15.9
	HPDC Stack-II	20.10
	SPC Stack	14.4
Feb-23	GSN Stack	19.2
	GSN Stack Continuous	17.8
	LPDC Stack	14.7
	HPDC Stack-I	16.5
	HPDC Stack-II	18.2
	SPC Stack	16
Mar-23	GSN Stack	20
	GSN Stack Continuous	18.4
	LPDC Stack	14.9
	HPDC Stack-I	17.5
	HPDC Stack-II	17.9
	SPC Stack	17.8

(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
April -22	East: East of Test Track	69.2	56.8
	North: North side of ETB	67.4	60.4
	South: South of Admin Building	65.2	59.9
	West: West of Forging Shop	66	62.8
July'22	East: East of Test Track	62.8	54.3
	North: North side of ETB	63.2	60.5
	South: South of Admin Building	60.5	51.4
	West: West of Forging Shop	66.7	63.9

Oct-22	East: East of Test Track	68.1	57.5
	North: North side of ETB	70.2	61.9
	South: South of Admin Building	64	57.3
	West: West of Forging Shop	65.8	60.4
Jan-23	East: East of Test Track	61.5	58.2
	North: North side of ETB	64.7	62.3
	South: South of Admin Building	65.4	64.8
	West: West of Forging Shop	63.1	59.8

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 (2021-22)	During the current financial year (2022-23)
(a) From process		
Category 5.1- Used Oil/Spent Oil	107,000 Liters	111,000 Liters
Category 5.2- waste & Residue Containing Oil	182,000 Kg	185,000 Kg
Category 12.5 – Phosphate Sludge	75,000 Kg	75,000 Kg
Category 21.2 – Spent Solvent	64,000 Liters	65,000 Liters
Category 21.1 – Process Waste residues	144,000 Kg	162,000 Kg
Category 33.1 - Empty Barrels	44547 Nos	47481 Nos
Category 11.4 – Flue gas dust & other particulars	42,000 Kg	32,000 Kg
(b) From pollution control facilities		
Category 35.3 – ETP, WWTP Sludge	656,000 Kg	5676,000 Kg

PART - E
SOLID WASTE

		Total Quantity	
		During the previous financial year (2021-22)	During the current financial year (2022-23)
(a)	From process	19269	16842.454
(b)	From pollution control facility	Nil	Nil
(c)	(1) Qnty recycled or re-utilized within the unit	Nil	Nil
	(2) Sold to recycler (tons)	18974	16572.094
	(3) Disposed (Mix Malwa & Garbage in tons)	295	270.360

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), Also Installation of Treatment Plant is under progress for maximum treatment and utilization of CETP water.
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. Rainwater 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. CO2 Emission reduction by **572 MWH / Year** by different activities like, Shop floor Light Replacement with LED, Lights optimization @ stock area during lunch hours, Installation of Low-capacity pump, Replacing UF pump valve throttling flow control by VFD scheme flow control etc. — Investment INR 3.5 million.
2. Water Consumption Reduction by **12789 KL/ Year** through different leak testing and put control over it, Aerators installation in Toilets hand Wash Taps in FE Shop, Optimization of water usages in air washer in PR Shop, Water saving through minimizing water losses in fire network by replacing old underground fire line header with new above ground header, Recycling of excess STP water through ZLD & again reuse it for Industrial Purpose
3. Waste generation reduction by **504 Tons/ Year** through different activities like - Reusing of One-Way Cases for reduction of Steel scrap & purchasing of corrugated carton jumbo boxes, AL Gates remelting in LPDC area – LPDC, SPC Dump material reuse, AL chips reuse by existing raw material suppliers.

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 25 to 23 Gms./ Person
2. Packing Material optimization with the use of returnable packing material (HVN & 2 GN HAB) – 188 Ton/ Yr
3. CO2 emission reduction by CBU Dispatches through Train Mode – from 1980 to 2533 Tons

