HONDA

Honda Cars India Limited
SPL-1, Tapukara Industrial Area
Khushkhera, Distt. - ALWAR
RAJASTHAN 301707
E-mail : corporate@hondacarindia.com
Tel. : 01493-522000, Fax : 01493-522006

Registered Office:
Plot No. A-1,Sector 40/41,Surajpur-Kasna R
Greater Noida Industrial Development Area,
Distt. Gautam Budh Nagar (U.P.) Pin-20130
CIN: U15114UP1995PI C099377

Date: 21-Sep-18

To,

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

Sub: Submission of Environment Statement Report for the FY 2017-18

Ref: CTO license no. for the all existing consents issued to HCIL - TKR

For Press, Phase I and PT step II	: 2014 – 2015/ MUID/ 2753
For Car Assembly line (2L project)	: 2014 – 2015/ MUID/ 2917
For Spin Die Casting	: 2014 – 2015/ MUID/ 2792
For Press Expansion Plant	: 2015 – 2016/ CPM/ 3369
For Car Assembly line (2L project) –PT	: 2017 – 2018/ CPM/ 4940
For Diesel Project Plant	: 2017 - 2018/ CPM/ 4949
For Mission Expansion Project	: 2017 – 2018/ CPM/ 4979

Dear Sir,

We are submitting you the Environment Statement for the FY 2017-18 in Form-V based on all the existing consents as mentioned above.

This is for your kind information & records.

Thanking You,
Yours faithfully,

For **Honda Cars India Ltd**

(Pravin Chaudhari)
Senior Manager - EHS

Cc: The Regional Officer, Rajasthan State Pollution Control Board, RIICO Industrial Area, Phase- II, Phool Bagh Chowk, Bhiwadi (Rajasthan)
Enclosures: Environment Statement Form V

FORM -V

ENVIRONMENT STATEMENT REPORT

From:

1-Apr-17 to 31-Mar-18

---- 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 2018

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 :

S. No.	Plant	Product	Quantity (Car Sets / Annum)
1	Press and Phase-I and PT Step-II	Clutch Case	136,000
		Engine Block	163,000
		Engine Head	163,000
		Mission Case	136,000
		Power Train Facilities (Crank Shaft & Con Rod Facility)	272,000
		Press Shop (Body Parts Sheet Metal Components)	170,000
2	Diesel	Clutch Case	136,000
		Engine Assembly	239,360
		Engine Block	163,200
		Engine Head	163,200
		Mission Assembly	272,000
		Mission Case	136,000
3	Car Assembly line (2L project)	Assembled Passenger Car	180,000
		Con Rod Grinding	272,000
		Crank Shaft Forging	1,130,160
		Crank Shaft Grinding	272,000
		Front Bumper	180,000
		Rear Bumper	180,000
4	Spin Die Casting	Cylinder sleeve	5,50,256
5	Press Expansion	Press shop (Body Parts sheet metal components)	220,000
6	Car Assembly Line & powertrain-expansion (FE III)	Con Rod (Finished)	2,72,000
		Crank Shaft (Finished)	2,72,000
7	MT Mission Expansion in Casting, Machining & Assembly Project	Clutch Case	2,72,000
		Mission Case	2,72,000

(i) Year of establishment:

S. No.	Shop details	Date of Commissioning
1	Press Shop	Sept – 2008
2	Powertrain Facilities	May - 2009
3	PT Step -2 – Die casting	Aug - 2011
4	Machining & Assembly	Aug - 2011
5	Diesel Project	Mar – 2013
6	Car Assembly Line	Feb - 2014
7	SPC Project	Sept – 2014
8	Press Shop Expansion Project	Jan – 2014
9	Car Assembly Line (2L Project)	Dec - 2016
10	Mission Expansion Project	Sept – 2017

(ii) Date of the last environmental statement submitted: **13-July-2017**

PART - B

Water and Raw Material Consumption

(i) **Water consumption m^3/day**

Process	KLD	612
Cooling	KLD	250
Domestic	KLD	311
Total	**KLD**	**1173**

Name of product	Process water consumption per unit of product output	
	During the previous financial year (2016-17)	During the current financial year (2017-18)
Passenger Car	1918.84 litre/ Car	1934.41 litre/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 (2016 - 17)	During the current financial year (2017-18)
Sheet Metal Blanks	Passenger Car	Kg/Car Set	239.38	239.38
Iron Forging			18.25	18.25
Aluminum Ingot			115.15	115.15

Name of raw materials	Name of products	UOM	Consumption of raw material per unit of output	
			During the previous financial year (2016 - 17)	During the current financial year (2017-18)
Cylinder sleeve			3.2	3.2
Note: The consumption of raw material as per car is calculated based on production of 1,80,000 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**	**Cr^{+6}**
		mg/l	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*	*mg/l*
RPCB Standard	**5.5 - 9.0**	**100**	**250**	**30**	**10**	**3**	**2**	**3**	**3**	**5**	**5**	**0.1**
Apr-17	7.6	48	158	26	1.80	N.T	0.06	0.05	N.T	0.07	N.T	-
May-17	7.5	11	128	23	3.40	N.T	0.05	0.04	N.T	0.06	N.T	-
Jun-17	7.96	8.00	160	27	2.50	0.05	0.06	0.40	N.T	0.86	0.36	-
Jul-17	7.91	11.00	110	28	2.70	0.06	0.08	0.56	N.T	0.91	0.40	-
Aug-17	7.89	15.00	125	26	2.10	0.07	0.10	0.54	N.T	0.95	0.38	-
Sep-17	7.78	17.60	132	28	2.50	0.08	0.12	0.56	N.T	0.97	0.40	-
Oct-17	7.82	15.80	125	26	2.10	0.07	0.13	0.59	N.T	0.98	0.42	-
Nov-17	7.65	18.00	120	23	2.60	0.08	0.15	0.55	N.T	0.95	0.41	0.05
Dec-17	7.52	22.00	116	25	3.10	0.07	0.18	0.53	N.T	0.92	0.40	0.07
Jan-18	7.36	18.00	110	21	2.80	0.06	0.17	0.51	N.T	0.90	0.38	0.08
Feb-18	7.41	22.10	125	24	2.15	0.07	0.18	0.50	N.T	0.86	0.35	0.06
Mar-18	7.50	25.40	132	26	1.98	0.06	0.20	0.51	N.T	0.82	0.34	0.08

*C6+ added in test/report from Nov'18 onwards as per our consent condition.

(b) WWTP & STP Outlet Water

Month	pH	TSS	COD	BOD	O&G	Cu	Total Cr	Fe	Ni	Dissolved Phosphate	Zn	Cr^{+6}	Total Residual 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-17	7.6	19	49	13	1.40	N.T	0.02	0.04	NT	N.T	5	-	-	-	-
May-17	7.2	10	59	15	2.60	N.T	0.01	0.03	N.T	N.T	N.T	-	-	-	-
Jun-17	7.4	6.0	78.1	15.0	0.5	N.T	0.02	0.2	0.1	0.7	N.T	-	-	-	-
Jul-17	7.3	8.0	46.1	13.0	0.5	N.T	0.04	0.3	0.1	0.7	0.3	-	-	-	-
Aug-17	7.1	6.0	39.5	10.1	0.6	N.T	0.02	0.3	0.06	0.7	0.3	-	-	-	-
Sep-17	8.1	21	81.00	19.00	0.65	N.T	0.03	0.24	0.05	0.63	0.3	-	-	-	-
Oct-17	8.0	24	74.00	15.80	0.71	N.T	0.05	0.31	0.09	0.74	0.26	-	-	-	-
Nov-17	8.0	21	78	18.4	0.73	N.T	0.04	0.33	0.08	0.72	0.36	0.06	0.51	16.2	12.1
Dec-17	8.0	17	72	19.2	0.71	N.T	0.03	0.34	0.05	0.70	0.32	0.07	0.50	14.8	10.1
Jan-18	8.0	20.3	67.50	16.00	0.75	N.T	0.04	0.36	0.1	0.71	0.33	0.08	0.51	16.7	13.4
Feb-18	8.0	16	71.4	18	0.74	N.T	0.05	0.35	0.07	0.72	0.32	0.07	0.50	14.3	12.3
Mar-18	8.0	19.1	82.50	21.30	0.75	N.T	0.06	0.32	0.1	0.70	0.34	0.06	0.53	16.4	15.5

- From Nov'18 onwards STP & WWTP outlets merged.
- N.T. – Not Traceable

For AIR Quality

a) Ambient Air Monitoring (Monthly Average)

Stations/ Area	Month	PM_{10}	$PM_{2.5}$	SO_2	NO_2	CO	O_3	Pb	NH_3	C_6H_6	Benzo Pyrene	As	Ni
		(µg/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near CBU Substation	Apr-17	75	37	12	25	1	19	N.T	12	N.T	N.T	N.T	2
	May-17	81	43	16	30	1	26	N.T	21	N.T	N.T	N.T	2.3
	Jun-17	73	35	11	23	1	14	0	6	N.T	N.T	N.T	3
	Jul-17	65	31	9	20	1	12	0	6	N.T	N.T	N.T	2
	Aug-17	45.3	21.7	6.4	13.7	0.5	9.8	0.1	3.4	N.T	N.T	N.T	1.7
	Sep-17	52.0	24.9	7.2	15.7	0.6	11.7	0.1	4.4	N.T	N.T	N.T	1.9
	Avg.	65	32	10	21	1	15	0	9	N.T	N.T	N.T	2

*From Sep'18 onwards ambient air monitoring location changed as per pollution guidelines.

Stations/ Area	Month	PM_{10}	$PM_{2.5}$	SO_2	NO_2	CO	O_3	Pb	NH_3	C_6H_6	Benzo Pyrene	As	Ni
		(µg/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near ETB Area	Oct-17	73.8	34.9	12.0	24.1	0.7	15.9	0.1	6.4	N.T	N.T	N.T	2.8
	Nov-17	83.9	42.3	14.3	27.2	0.8	18.1	0.1	7.5	N.T	N.T	N.T	3.0
	Dec-17	86.9	47.0	13.7	29.8	0.9	21.3	0.2	8.5	N.T	N.T	N.T	3.2
	Jan-18	70.9	38.0	12.6	23.5	0.8	17.9	0.1	7.1	N.T	N.T	N.T	2.7
	Feb-18	73.9	37.9	11.9	23.0	0.7	16.9	0.1	6.8	N.T	N.T	N.T	2.6
	Mar-18	69.55	35.68	11.13	22.81	0.88	15.53	0.14	6.93	N.T	N.T	N.T	2.45
	Avg.	76	39	13	25	0.8	18	0.1	7	N.T	N.T	N.T	3

*N.T - Not Traceable

Stations/ Area	Month	PM_{10}	$PM_{2.5}$	SO_2	NO_2	CO	O_3	Pb	NH_3	C_6H_6	Benzo Pyrene	As	Ni
		(ug/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
Near QE Building	Apr-17	79	40	14	28	1	21	0.1	16	N.T	N.T	N.T	3
	May-17	80	41	15	30	1	25	N.T	21	N.T	N.T	N.T	N.T
	Jun-17	81.2	41.6	13.4	29.6	0.8	17.6	0.1	8.2	N.T	N.T	N.T	3.1
	Jul-17	72.7	37.3	11.5	26.1	0.7	15.7	0.1	7.4	N.T	N.T	N.T	2.7
	Aug-17	60.4	28.8	9.2	21.0	0.6	12.3	0.1	60.4	N.T	N.T	N.T	2.3
	Sep-17	68.4	32.9	10.0	23.6	0.7	14.0	0.1	6.5	N.T	N.T	N.T	
	Oct-17	66.9	32.3	9.8	18.9	0.6	12.7	0.1	5.4	N.T	N.T	N.T	2.1
	Nov-17	79.0	38.8	11.4	23.6	0.8	15.6	0.1	6.1	N.T	N.T	N.T	2.2
	Dec-17	83.8	43.6	12.2	25.2	0.8	20.3	0.1	6.9	N.T	N.T	N.T	2.7
	Jan-18	70.3	37.5	10.5	19.1	0.7	16.6	0.1	6.2	N.T	N.T	N.T	2.2
	Feb-18	71.2	37.4	9.1	16.6	0.7	13.7	0.1	5.7	N.T	N.T	N.T	1.9
	Mar-18	65.95	34.76	10.94	20.83	0.81	14.74	0.11	6.36	N.T	N.T	N.T	2.07
	Avg.	73.23	37.16	11.42	23.54	0.76	16.6	0.1	13.01	N.T	N.T	N.T	2.36

Stations/ Area	Month	PM_{10}	$PM_{2.5}$	SO_2	NO_2	CO	O_3	Pb	NH_3	C_6H_6	Benzo Pyrene	As	Ni
		(ug/m3)											
Standard		100	60	80	80	4	180	1	400	5	1	6	20
	Apr-17	76.1	39.0	13.4	26.8	1.0	21.9	N.T	18.5	N.T	N.T	N.T	N.T

Near STP Area	May-17	77.4	39.0	14.6	28.3	0.9	23.3	N.T	19.0	N.T	N.T	N.T	N.T
	Jun-17	77.4	38.0	12.7	25.1	1.0	21.4	0.1	21.9	N.T	N.T	N.T	3.2
	Jul-17	82.68	47.89	11.14	22.54	0.88	18.91	0.12	19.09	N.T	N.T	N.T	2.85
	Aug-17	69.25	35.70	8.68	18.16	0.80	13.61	0.09	15.00	N.T	N.T	N.T	2.33
	Sep-17	78.0	40.3	9.7	20.2	0.9	15.3	0.1	14.5	N.T	N.T	N.T	2.6
	Avg.	77	40	12	24	1	19	0	18	N.T	N.T	N.T	3
Stations/ Area	**Month**	**PM_{10}**	**$PM_{2.5}$**	**SO_2**	**NO_2**	**CO**	**O_3**	**Pb**	**NH_3**	**C_6H_6**	**Benzo Pyrene**	**As**	**Ni**
	(ug/m3)												
Standard		**100**	**60**	**80**	**80**	**4**	**180**	**1**	**400**	**5**	**1**	**6**	**20**
Near Admin Building	Oct-17	80.8	44.4	13.6	25	0.8	16.3	0.1	9.2	N.T	N.T	N.T	2.9
	Nov-17	89.6	50.8	16.1	29.7	0.9	18.2	0.1	9.7	N.T	N.T	N.T	3.1
	Dec-17	89.1	51.4	15.3	32	1.0	21.7	0.2	10.5	N.T	N.T	N.T	3.4
	Jan-18	76.6	41.3	12.3	25.9	0.8	18.1	0.2	8.9	N.T	N.T	N.T	3.5
	Feb-18	78.9	39.5	10.9	23.7	0.8	17.0	0.2	8.0	N.T	N.T	N.T	2.8
	Mar-18	74.44	37.90	12.71	24	0.91	17.76	0.16	8.53	N.T	N.T	N.T	2.9
	Avg.	**79.18**	**42.09**	**12.59**	**25.11**	**0.89**	**18.62**	**0.13**	**13.5**	N.T	N.T	N.T	**2.9**

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_6H_6**	**Benzo Pyrene**	**As**	**Ni**
	(ug/m3)												
Standard		**100**	**60**	**80**	**80**	**4**	**180**	**1**	**400**	**5**	**1**	**6**	**20**
Near Forging Building	Apr-17	79	40	14	28	1	21	-	-	-	-	-	-
	May-17	80	41	15	30	1	25	-	-	-	-	-	-
	Jun-17	81.2	41.6	13.4	29.6	0.8	17.6	-	-	-	-	-	-
	Jul-17	72.7	37.3	11.5	26.1	0.7	15.7	-	-	-	-	-	-
	Aug-17	60.4	28.8	9.2	21.0	0.6	12.3	-	-	-	-	-	-
	Sep-17	68.4	32.9	10.0	23.6	0.7	14.0	-	-	-	-	-	-
	Oct-17	75.8	40.1	10.0	20.8	0.8	14.2	0.1	11.0	N.T	N.T	N.T	2..5
	Nov-17	86.3	46.6	10.9	25.3	0.9	17.0	0.1	12.2	N.T	N.T	N.T	2.7
	Dec-17	84.6	48.3	13.6	29.8	0.9	19.8	0.2	13.5	N.T	N.T	N.T	2.9
	Jan-18	72.5	39.4	11.4	25.5	0.8	16.4	0.2	9.7	N.T	N.T	N.T	2.6
	Feb-18	77.3	36.9	10.2	25.5	0.7	16.4	0.1	8.8	N.T	N.T	N.T	2.4
	Mar-18	72.49	36.85	9.40	19.40	0.71	12.83	0.09	8.69	N.T	N.T	N.T	1.9
	Avg.	**75.89**	**39.14**	**11.55**	**25.38**	**0.80**	**16.85**	**0.13**	**10.64**	N.T	N.T	N.T	**2.5**

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-17	E-Coat Oven	N.T	N.T	0.07	-	-
	Sealer Oven	N.T	N.T	0.078	-	-
	Top Coat Oven	N.T	N.T	0.08	-	-
	Primer Oven	Not in Use				
	Touch up Oven	N.T	N.T	0.074	-	-
	RTO Exhaust	0.32	0.06	0.02	-	-
	POPA Oven Exhaust	0.41	0.82	0.072	-	-
	Propane/CNG Fired Hot Water Generator	N.T	N.T	0.05	-	-
May-17	E-Coat Oven	N.T	N.T	0.065	-	-
	Sealer Oven	N.T	N.T	0.072	-	-
	Top Coat Oven	N.T	N.T	0.074	-	-
	Primer Oven	Not in Use				
	Touch up Oven	N.T	N.T	0.07	-	-
	RTO Exhaust	0.29	0.05	0.01	-	-
	POPA Oven Exhaust	0.37	0.79	0.07	-	-
	Propane/CNG Fired Hot Water Generator	N.T	N.T	0.04	-	-
Jun-17	E-Coat Oven	4	4	0.0016	37.2	0.08
	Sealer Oven	N.T	3	0.0016	39.2	N.T
	Top Coat Oven	N.T	N.T	0.005	42.13	0.04
	Primer Oven	Not in Use				
	Touch up Oven	3	6	0.002	29	0.05
	RTO Exhaust	2	13	0.0004	41.05	N.T
	POPA Oven Exhaust	0.98	2	0.002	42	N.T
	Propane/CNG Fired Hot Water Generator	2	5	0.0005	25	N.T
Jul-17	E-Coat Oven	4.1	3.7	0.0014	35.02	0.07

	Sealer Oven	N.T	2.8	0.0014	35.8	N.T
	Top Coat Oven	N.T	N.T	0.005	40.87	0.03
	Primer Oven	Not in Use				
	Touch up Oven	3.1	5.8	0.002	26	0.05
	RTO Exhaust	2.1	12.4	0.0003	38.9	N.T
	POPA Oven Exhaust	0.96	2.2	0.002	39.2	N.T
	Propane/CNG Fired Hot Water Generator	2.2	4.6	0.0004	24.6	N.T
Aug-17	E-Coat Oven	3.9	3.3	0.0013	32.5	0.06
	Sealer Oven	N.T	2.6	0.0013	33.2	N.T
	Top Coat Oven	N.T	N.T	0.0048	36.5	0.02
	Primer Oven	Not in Use				
	Touch up Oven	3	5.1	0.0019	23.1	0.04
	RTO Exhaust	2	10.5	0.0002	34.5	N.T
	POPA Oven Exhaust	0.94	2.1	0.002	36.7	N.T
	Propane/CNG Fired Hot Water Generator	2	4.4	0.0003	21.9	N.T
Sep-17	E-Coat Oven	4.2	3.7	0.0014	35.5	0.08
	Sealer Oven	BDL	2.8	0.0014	36.7	N.T
	Top Coat Oven	BDL	BDL	0.0049	41	0.04
	Primer Oven	Not in Use				
	Touch up Oven	3.5	5.5	0.002	25.4	0.06
	RTO Exhaust	2.5	12.4	0.0003	37.8	N.T
	POPA Oven Exhaust	0.97	2.8	0.003	40.5	N.T
	Propane/CNG Fired Hot Water Generator	2.6	4.5	0.0005	23.4	N.T
Oct-17	E-Coat Oven	3.8	3.2	0.0012	32.4	0.07
	Sealer Oven	N.T.	2.6	0.0012	32.5	N.T
	Top Coat Oven	N.T.	N.T	0.0048	37.7	0.03
	Primer Oven	Not in Use				
	Touch up Oven	3.3	5.1	0.0018	22.1	0.05
	RTO Exhaust	2.2	10.8	0.0002	34.5	N.T
	POPA Oven Exhaust	0.94	2.5	0.002	36.4	N.T
	Propane/CNG Fired Hot Water Generator	2.4	3.8	0.0004	21.2	N.T

Nov-17	E-Coat Oven	4.1	3.5	0.0014	35.1	0.48
	Sealer Oven	N.T	2.8	0.0014	34.8	N.T
	Top Coat Oven	N.T	N.T	0.005	40.5	0.72
	Primer Oven	Not in Use				
	Touch up Oven	3.7	5.8	0.0019	25.2	0.40
	RTO Exhaust	3.1	12.3	0.0003	37.8	N.T
Nov-17	POPA Oven Exhaust	0.96	3.1	0.004	39.3	0.08
	Propane/CNG Fired Hot Water Generator	2.6	4.3	0.0003	23.2	N.T
Dec-17	E-Coat Oven	4.8	3.9	0.0015	36.8	0.61
	Sealer Oven	N.T.	3.1	0.0015	38.5	N.T
	Top Coat Oven	N.T.	N.T	0.0052	44.6	0.74
	Primer Oven	Not in Use				
	Touch up Oven	4.1	6.2	0.0021	29.2	0.56
	RTO Exhaust	3.5	16.4	0.0004	40.3	N.T
	POPA Oven Exhaust	0.98	4.6	0.005	43.5	0.09
	Propane/CNG Fired Hot Water Generator	2.8	4.9	0.0004	25.8	N.T
Jan-18	E-Coat Oven	4.5	4.1	0.0041	35.8	0.60
	Sealer Oven	N.T.	3.7	0.0014	40.2	N.T
	Top Coat Oven	N.T.	N.T.	0.0051	48.5	0.73
	Primer Oven	Not in Use				
	Touch up Oven	4.5	5.8	0.002	32.4	0.54
	RTO Exhaust	4.1	15.8	0.0003	44.5	N.T
	POPA Oven Exhaust	0.95	4.8	0.004	45.6	0.08
	Propane/CNG Fired Hot Water Generator	2.4	4.6	0.0003	27.5	N.T
Feb-18	E-Coat Oven	4.2	3.8	0.0013	32.7	0.58
	Sealer Oven	N.T.	3.4	0.0012	38.4	N.T
	Top Coat Oven	N.T.	N.T.	0.005	46.7	0.71
	Primer Oven	Not in Use				
	Touch up Oven	4.1	5.4	0.0019	30.8	0.52
	RTO Exhaust	3.9	12.8	0.0002	41.8	N.T
	POPA Oven Exhaust	0.94	4.5	0.003	42.1	0.07

	Propane/CNG Fired Hot Water Generator	2.3	4.2	0.0002	25.7	N.T
Mar'18	E-Coat Oven	4.1	3.4	0.0012	30.1	0.56
	Sealer Oven	N.T.	3.2	0.0011	35.6	N.T
	Top Coat Oven	N.T.	N.T.	0.0048	44.5	0.70
	Primer Oven	Not in Use				
	Touch up Oven	3.7	4.9	0.0017	30.1	0.51
	RTO Exhaust	3.5	11.9	0.0003	40.2	N.T
	POPA Oven Exhaust	0.92	4.3	0.002	40.6	0.06
	Propane/CNG Fired Hot Water Generator	2.1	3.7	0.0003	22.8	N.T

(a) Stack attached to DG sets

Source of sample : **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**				**Frequency : Once in a Month**		
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-17	Stack no.1	0.002	71.4	22.5	69.7	55.1
	Stack no.2	0.002	70.2	23.5	69.7	52.6
	Stack no.3	0.002	73.2	21.8	70.1	56.9
May-17	Stack no.1	0.0	70.2	21.9	69.1	56.3
	Stack no.2	0.0	69.5	23.1	69.2	53.4
	Stack no.3	0.0	72.3	21.2	69.4	56.1
	Stack no.4	0.0	69.5	22.1	57.6	60.2
	Stack no.5	0.0	68.2	21.6	56.8	58.5
	Stack no.6	0.0	67.5	21.3	57.2	59.1
Jun-17	Stack no.1	0.002	352.0	23.1	120.0	58.2
	Stack no.2	0.003	343.0	23.1	115.0	54.0
	Stack no.3	0.002	365.0	19.2	105.0	52.8
	Stack no.4	0.002	374.0	21.8	109.0	55.5
	Stack no.5	0.003	368.0	21.5	89.0	56.4
	Stack no.6	0.003	296.0	18.8	90.1	52.8
	Stack no.1	0.0022	347.0	22.4	116.0	54.2
	Stack no.2	0.0030	340.0	22.8	112.0	51.0

Jul-17	Stack no.3	0.0020	351.0	18.1	101.0	51.4
	Stack no.4	0.0018	362.0	20.5	103.0	52.8
	Stack no.5	0.0025	360.0	20.4	84.0	54.7
	Stack no.6	0.0026	283.0	18.2	86.7	49.6
Aug-17	Stack no.1	0.0021	301.0	20.8	104.0	50.2
	Stack no.2	0.0030	330.0	19.5	101.8	45.8
	Stack no.3	0.0020	356.0	16.4	97.5	44.6
	Stack no.4	0.0017	395.0	18.4	94.8	50.7
	Stack no.5	0.0023	360.0	17.8	78.0	47.2
	Stack no.6	0.0024	321.0	16.5	77.5	46.8
Sep-17	Stack no.1	0.0	218.0	18.2	56.1	56.2
	Stack no.2	0.0	246.0	21.3	20.0	51.6
	Stack no.3	0.0	190.0	18.4	21.6	48.2
	Stack no.4	0.0	460.0	20.5	58.8	52.4
	Stack no.5	0.0	580.0	19.7	63.1	48.5
	Stack no.6	0.0	342.0	20.6	83.4	48.2
Oct-17	Stack no.1	0.0021	201.0	16.5	50.8	51.3
	Stack no.2	0.0029	230.0	19.8	16.0	47.2
	Stack no.3	0.0020	181.0	15.6	17.8	44.5
	Stack no.4	0.0016	348.0	18.8	53.4	50.1
	Stack no.5	0.0022	360.0	15.8	58.6	45.4
	Stack no.6	0.0023	328.0	18.8	75.3	44.4
Nov-17	Stack no.1	0.0022	210.4	18.2	58.5	56.4
	Stack no.2	0.0031	250.2	20.4	17.8	51.2
	Stack no.3	0.0021	196.0	17.1	18.6	49.7
	Stack no.4	0.0018	361.0	20.1	59.5	55.3
	Stack no.5	0.0024	378.0	17.2	62.4	49.5
	Stack no.6	0.0024	341.0	20.1	81.5	46.8
Dec-17	Stack no.1	0.0024	218.3	22.5	51.2	59.2
	Stack no.2	0.0032	258.4	18.4	36.1	54.8
	Stack no.3	0.0023	211.0	16.2	27.1	53.4
	Stack no.4	0.0019	374.4	23.2	46.3	56.5
	Stack no.5	0.0025	384.5	18.7	58.2	50.8
	Stack no.6	0.0025	315.0	23.5	66.2	49.5
Jan-18	Stack no.1	0.0023	210.5	24.1	48.6	54.3
	Stack no.2	0.0031	250.0	20.1	38.5	57.4
	Stack no.3	0.0022	188.0	14.2	24.6	55.7
	Stack no.4	0.0020	365.2	25.6	49.4	60.2
	Stack no.5	0.0024	372.0	17.8	55.8	52.3
	Stack no.6	0.0024	310.0	24.7	62.4	45.8
	Stack no.1	0.0022	187.2	22.4	45.6	50.4
	Stack no.2	0.0030	243.0	17.8	37.4	53.8

Feb-18	Stack no.3	0.0021	172.3	13.5	21.8	51.4
	Stack no.4	0.0019	324.2	23.5	42.7	57.2
	Stack no.5	0.0023	354.0	15.3	51.4	49.5
	Stack no.6	0.0023	295.0	22.8	59.4	42.3
Mar-18	Stack no.1	0.0020	176.2	20.8	44.1	47.8
	Stack no.2	0.0028	230.4	16.2	34.8	50.5
	Stack no.3	0.0020	165.0	12.4	21.4	50.2
	Stack no.4	0.0018	315.4	22.7	40.8	54.6
	Stack no.5	0.0022	342.0	14.8	48.5	45.7
	Stack no.6	0.0022	284.0	21.6	55.6	40.5

(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-17	GSN Stack	82.6	N.T	N.T	0.01
	LPDC Stack	78	N.T	N.T	0.089
	HPDC Stack-I	81.2	N.T	N.T	0.08
	HPDC Stack-II	82.5	N.T	N.T	0.078
	SPC Stack	81	N.T	N.T	0.095
May-17	GSN Stack	79.4	N.T	N.T	0.012
	LPDC Stack	75	N.T	N.T	0.084
	HPDC Stack-I	78.5	N.T	N.T	0.075
	HPDC Stack-II	80.6	N.T	N.T	0.071
	SPC Stack	75	N.T	N.T	0.09
Jun-17	GSN Stack Batch 1	65.15	N.T	40	0.001
	GSN Stack Continuous	68.4	N.T	43.7	0.0012
	LPDC Stack	62.05	N.T	N.T	0.0016
	HPDC Stack-I	78.2	N.T	16	0.0016
	HPDC Stack-II	81.07	N.T	20	0.0024
	SPC Stack	73.2	N.T	4	0.004
Jul-17	GSN Stack Batch 1	62.74	N.T	37.2	0.001
	GSN Stack Continuous	65.2	N.T	41.2	0.001
	LPDC Stack	59.2	N.T	N.T	0.0015
	HPDC Stack-I	75.2	N.T	13	0.0014
	HPDC Stack-II	81.07	N.T	18	0.0024
	SPC Stack	73.2	N.T	4	0.003

Aug-17	GSN Stack Batch 1	58.2	N.T	35.4	0.001
	GSN Stack Continuous	56.8	0.001	37.8	0.001
	LPDC Stack	53.6	N.T	N.T	0.0014
	HPDC Stack-I	69.5	N.T	11.8	0.0013
	HPDC Stack-II	71.5	N.T	16.4	0.0021
	SPC Stack	63.8	N.T	3.7	0.0021
Sep-17	GSN Stack	64.4	BDL	39.5	0.003
	GSN Stack Continuous	62.8	BDL	41.2	0.002
	LPDC Stack	56.4	BDL	BDL	0.0016
	HPDC Stack-I	65.4	BDL	12.4	0.0015
	HPDC Stack-II	78.8	BDL	18.2	0.0023
	SPC Stack	66.4	BDL	3.9	0.004
Oct-17	GSN Stack	58.8	BDL	34.5	0.002
	GSN Stack Continuous	60.1	BDL	38.2	0.003
	LPDC Stack	52.5	BDL	BDL	0.0014
	HPDC Stack-I	62.5	BDL	10.8	0.0014
	HPDC Stack-II	74.21	BDL	16.5	0.0022
	SPC Stack	61.2	BDL	3.5	0.003
Nov-17	GSN Stack	64.5	BDL	36.8	0.003
	GSN Stack Continuous	65.5	BDL	41.6	0.004
	LPDC Stack	55.8	BDL	BDL	0.0015
	HPDC Stack-I	66.7	BDL	11.2	0.0015
	HPDC Stack-II	78.4	BDL	18.2	0.0024
	SPC Stack	68.4	BDL	4.2	0.004
Dec-17	GSN Stack	67.4	BDL	40.2	0.004
	LPDC Stack	57.7	BDL	BDL	0.0016
	HPDC Stack-I	63.2	BDL	11.8	0.0016
	HPDC Stack-II	70.8	BDL	21.5	0.0025
	SPC Stack	61.2	BDL	4.8	0.005
Jan-18	GSN Stack	65	BDL	35.2	0.004
	GSN Stack Continuous	60.8	BDL	35.4	0.004
	LPDC Stack	55.4	BDL	BDL	0.0015
	HPDC Stack-I	61.5	BDL	11.2	0.0015
	HPDC Stack-II	72.3	BDL	20.3	0.0024
	SPC Stack	58.5	BDL	5.4	0.007
Feb-18	GSN Stack	62	BDL	33.7	0.003
	GSN Stack Continuous	56.8	BDL	32.7	0.003
	LPDC Stack	52.7	BDL	BDL	0.0014
	HPDC Stack-I	58.8	BDL	10.8	0.0014
	HPDC Stack-II	69.4	BDL	18.5	0.0022
	SPC Stack	53.6	BDL	5.2	0.006
Mar-18	GSN Stack	60.1	BDL	32.1	0.002

	LPDC Stack	50.4	BDL	BDL	0.0012
	HPDC Stack-I	55.6	BDL	10.1	0.0013
	HPDC Stack-II	65.2	BDL	16.2	0.0021
	SPC Stack	51.3	BDL	4.9	0.005
** N.T. - Not Traceable **BDL – Below Detectable Limit					

(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
Apr-17	East: East of CBU Yard	73.8	69.1
	North: North side of WTP	71.2	62.6
	South: South of PT Shop	69.7	63.9
	West: West of PT Shop	73.5	67.8
Jul-17	East: East of CBU Yard	71.5	66.4
	North: North side of WTP	70.54	63.54
	South: South of PT Shop	67.82	60.69
	West: West of PT Shop	73.12	68.57
Oct-17	East: East of Test Track	68.9	64.2
	North: North side of ETB	72.5	62.87
	South: South of Admin Building	62.5	58.9
	West: West of Forging Shop	71.45	60.81
Jan-18	East: East of Test Track	72.34	61.54
	North: North side of ETB	69.87	60.8
	South: South of Admin Building	64.2	55.92
	West: West of Forging Shop	70.45	57.36

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 (2016-17)	During the current financial year (2017-18)
(a) From process		
Category 5.1- Used Oil/Spent Oil	108,000 Liters	95,000 Liters
Category 5.2- waste & Residue Containing Oil	255,000 Kg	253,000 Kg
Category 12.5 – Phosphate Sludge	71,000 Kg	80,000 Kg
Category 21.2 – Spent Solvent	31,000 Liters	42,000 Liters
Category 21.1 – Process Waste residues	126,000 Kg	128,000 Kg
Category 33.1 - Empty Barrels	41,717 Nos	110772 Nos
Category 11.4 – Flue gas dust & other particulars	-	1000 Kg
(b) **From pollution control facilities**		
Category 35.3 – ETP Sludge	2,79,160 Kg	3,96,000 Kg

PART - E

SOLID WASTE

		Total Quantity	
		During the previous financial year (2016 - 17)	During the current financial year (2017 - 18)
(a)	From process	22668	75034
(b)	From pollution control facility	Nil	Nil
(c)	(1) Quantity recycled or re-utilized within the unit	Nil	Nil
	(2) Sold to recycler (tons)	22301	74625
	(3) Disposed (Mix Malwa & Garbage in tons)	367	408

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 incineration. Grinding Sludge stored in HDPE bags and sent for land filling.
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. Reduction in power consumption by automation of test Track light operation – 8 Lakhs INR
2. Reduction in power consumption by replacement of belt driven fan with direct coupled electronic fan in PT-FE area – 9.5 lakhs INR
3. Reduction in consumption of hydraulic oil used for oil patch test by change the method of conventional oil patch test to online oil test machine – 50 K INR
4. Soft water consumption reduction in air washers Controlling of PT -AL Air washers (01) spray pump based on humidity & temperature – 1.8 Lakhs INR
5. Reduction in consumption of Sealant by Implementation of automated Sealant Application M/c at Shift Lever Sub assy. – 5 lakhs INR

PART - H

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

1. R.O. installation for waste water treatment for reutilization of treated water in process.

   (Investment – INR 150 million)

2. Wet Scrubber Installation for PM emission reduction in Casting process.
   (investment – INR 40 Million approx.)
3. Extension of Solar power plant from 1.2 MW to 2.7 MW.

PART - I

Any other particular for improving the quality of the environment:

- 127 Rims/ Yr. Paper Consumption Reduction achieved in 2017-18 by creating awareness and other saving approach.
- Approx. 561600 KWH/ Year Co2 Emission reduction (Electricity Consumption Reduction) by different energy saving idea implementation.
- Approx. 15251 Ltr./ Year oil consumption reduction in 2017-18 by reutilization of same in other process.