



24th September 2018

The Member Secretary
State Pollution Control Board, Odisha
"Paribesh Bhawan"
A/118, Nilakantha Nagar
Unit - VIII
BHUBANESWAR – 751012

Sub : Environmental Statement for the financial year 2017-2018

Dear Sir,

We are enclosing **Environmental Statement** for the financial year **2017-2018** duly filled in as per Government of India notification No. GSR 386 (E) of 28 April 1993.

Thanking you,

Yours truly,

A handwritten signature in blue ink, appearing to read "J.P. Nayak", is written over a horizontal line.

J.P. Nayak
Plant Head- Smelter

Copy to:

Regional Officer
State Pollution Control Board, Odisha.
Plot No:- 1070
Hospital Road,
Modi Para.
SAMBALPUR - 768 002

Hindalco Industries Limited

Hirakud Complex, Hirakud - 768 016, District: Sambalpur, Odisha, India
T: +91 663 2481307/2481273/2481295 | Fax: +91 663 2481356/2481342 | E: hindalco@adityabirla.com | W: www.hindalco.com
Registered Office: Ahura Centre, 1st Floor, B-Wing, Mahakali Caves Road, Andheri (East), Mumbai-400 093, India
Tel: +91 22 6691 7000 | Fax: + 91 222 6691 7001
Corporate ID No.: L27020MH1958PLC011238

“FORM-V”

(See Rule – 14)

Environmental Statement for the financial year ending the 31st March 2018.

PART- A

01. Name and Address of the owner / Occupier : Mr. Jagannath Prasad Nayak
Of the Industry, Operation or process : Plant Head- Smelter
Hindalco Industries Limited,
Hirakud Smelter
P. O. : HIRAKUD – 768016
Dist. : Sambalpur (ODISHA)
02. Industry category
Primary - (STC code) : 684. 1
Secondary - (SIC code) : 3720
03. Production Capacity - Units : 2.16 LTPA
04. Year of Establishment : 1959
05. Date of the last Environmental Statement : 14th September 2017.
Submitted

PART- B

Water and Raw Material Consumption

01. **Water Consumption** : (m³ / day)
2017-2018
- Process** : Nil
Cooling : 960
Domestic : *

*(From the month of March 2005 total domestic (smelter and power) consumption is shown in captive power water cess assessment)

Name of the Products	Water consumption per unit of product	
	During the Previous Financial year 2016-2017	During the current Financial Year 2017 – 2018
01. Aluminium	2.29 m ³ per ton of aluminium (excluding domestic consumption)	2.16 m ³ per ton of aluminium (excluding domestic consumption)

02. Raw Material Consumption :

Name of the Raw Materials	Name of the Products	Consumption of the Raw materials per unit of Output	
		During the previous Financial Year 2016- 2017 Kg/ MT. Al.	During the Current Financial Year 2017- 2018 Kg/ MT. Al.
Alumina	Aluminium Metal	1923.985	1916.0
Cryolite		6.237	3.0
Aluminium Fluoride		19.54	20.0
Calcium Fluoride		0.117	0.200
Prebaked Anode		549.99	554.0

PART- C

**Pollution Discharged to Environment / Unit of output.
(Parameters as specified in the Consent Order)**

Pollutants	Quantity of Pollutants discharged (mass / day)		Concentrations of Pollutants in discharges (mass/ volume)		Percentage of Variation from prescribed standards with reasons.
(a) Water	No Discharge of pollutant to out of the Plant premises		No Discharge of pollutant to out of the Plant premises		All the Plant effluent /sewage water being treated & recycled in Plant ETP/STP to maintain the ZLD status by reusing in Plant process like cooling tower and gardening purpose.
(b) Air	TOTAL FLUORIDE (Kg/ MT. Al.)		SPM (mg/ NM3)		Prescribed limiting Standards as per CTO
	STACK (FTP)	FUGITIVE	STACK (FTP)	FUGITIVE	Stack(FTP) Total F- 0.3 Kg/ MT. Al Fugitive Total F - 0.4 Kg/ MT. Al. Stack(FTP)/ Fugitive SPM - 100 mg/ NM3
*Annual avg.	0.21	0.32	10.98	10.29	Figures are within the limiting standard

PART- D

Hazardous Wastes

[as specified under Hazardous Wastes (Management and Handling) Rules , 1989]

Hazardous Wastes	Total Generation quantity		Total Disposal (Sold) quantity	Total Storage quantity
	During the Previous Financial Year 2016-17	During the current Financial Year 2017-18		
(a) From Process				
Used oil	29.47 KL	31.57 KL	31.57 KL	0
Waste containing oil	0.683 MT	1.033 MT	1.033 MT	0
Spent Pot Lining (Cathode residues)	2390.32 MT	3434.95 MT	855.85 MT	3434.95 MT
Aluminium Dross	3749.202 MT	4186.252 MT	4101.09 MT	0
Aluminium Dross Residue	707.00MT	1256 MT	1208.22 MT	48.0 MT
Pot Duct Cleaning Waste	0.03 MT	0.0 MT	0.0 MT	0
Rejected lining of furnace (refractory)	0.00 MT	0.0 MT	0.0 MT	0
Rejected Refractory of furnace	0.00 MT	0.0 MT	0.0 MT	0
Shot Blasting Dust(containing Fluoride)	56.0 MT	69.82 MT	69.82 MT	0
Ladle cleaning residue	15.2 MT	14.63 MT	14.63 MT	0
Rejected filter Bags (FTP)	0.055 MT	0.0MT	0.0 MT	0
Asbestos waste	0.00 MT	0.0 MT	0.0 MT	0
Rejected AlF3 Bags	1.0 MT	0.023 MT	0.023 MT	0
Fluoride contaminated waste (spilled waste from potline)	5.8 MT	28.14 MT	28.14 MT	0
Drain cleaning sludge	11.75 MT	1.19 MT	1.19 MT	0
Floor sweeping & housekeeping waste	550 MT	365.5 MT	365.5 MT	0
Tar containing waste	0.00 MT	0.0 MT	0.0 MT	0
ETP sludge	4.10 MT	1.16 MT	1.16 MT	0
Used Anode butts	16330 MT	18852.2 MT	20365.010 MT	0
Discarded container/Liners used for Hazardous chemicals	Nil	Nil	Nil	0
Used Batteries	18 nos.	23 nos.	357 nos.	0

(b) From Pollution Control Facilities

i) Water Pollution Control System adopted by our unit

- Total nos of ETP with RO system installation 2×250KLD and One 50KLD
- Total nos of STP installation 1×100KLD, 1×500KLD,1×300KLD, 1×400KLD
- We are maintaining to zero discharge concept during non-monsoon seasons.
- Online effluent water monitoring system has been connected to OSPCB and CPCB server.

(ii) Air Pollution Control System adopted by our unit

- 4nos of FTP and 5nos of stack has been connected to all pot room for fume collection.
- All stack emission and ambient monitoring data has been connected to OSPCB and CPCB server.
- Installation & commissioning of spectrometer (Laser diode gas Analyser using optical radiation to monitor HF concentration in two paths) at 235KA and another 8path has been installed at 85 KA.

(iii) Hazardous Waste Management Practice

- 11nos of over ground SPL shed for storing SPL
- Own SLF(Secured land fill)-5300m³
- Own in-house recovery of aluminium dross plant in consent with OSPCB.
- Used anode butts disposing our sister unit Aditya Aluminum for making green anode and some disposing to authorized recyclers.
- Our other hazardous wastes are been disposed to CHWTSDF for every month & manifest are maintained.
- ETP sludge generated 1.16 MT and disposed to Ramky.

Sl.No.	(C)	During the Previous Financial Year 2016 -2017	During the Current Financial Year 2017 - 2018
1.	Quantity re- cycled or re-utilized within the unit Cathode residue (SPL)	Nil	Nil
2.	Sold Dross	3945.99 MT	4101.09 MT (Annexure-XIV Details)
3.	Disposed Cathode Residue(SPL)	302.66 MT (266.29MT disposal to 3rd party & 36.37 CPP co incineration)	855.85 MT (Annexure-XIV Details)
4.	Used Oil	29.47 KL	31.57 KL

PART- E Solid Wastes

Solid waste	Total Generation quantity (MT)		Total Disposal (Sold) quantity (MT)	Total Storage quantity (MT)
	During the Previous Financial Year 2016-17	During the current Financial Year 2017-18	During the current Financial Year 2017-18	During the end of Financial Year 2017-18
Scrap cast iron	78.250	159.100	159.100	0
Scrap collector bar	401.780	711.150	711.150	0
M.S Scrap	400.960	538.940	538.940	0
Scrap Cast steel rod	334.300	412.020	412.020	0
M.S.RodScrap(Reinforcement)	5.800	0.000	0.000	0
Scrap Steel-Al clad	20.880	33.360	33.360	0
Light M. S Scrap	409.570	116.750	116.750	0
Scrap Cast Iron from Rodding Plant	30.040	2.000	2.000	0
M S Strip	0.0	25.200	25.200	0
Loose Aluminium chips (Project)	0.0	0.0	0.0	0
Bailed Aluminium chips	226.470	274.610	274.610	0

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.

DISPOSAL OF HAZARDOUS WASTES :

Hazardous Wastes	Physical Form	Composition	Storage Description	Disposal Practice
Used oil	Liquid	Not Applicable	Stored in designated place.	Used lube oil is sold to CPCB/SPCB authorized party with maintaining Manifest.
Waste containing oil	Solid	Not Applicable	Stored in designated place.	Disposed to our own SLF

Spent Pot Lining (Cathode residues)	Lumps	See Annex-I	Stored in covered sheds on concrete floors.	Spent pot lining collected from failed pots are stored under covered shed on concrete floor. And disposed to SPCB authorized vendore M/s. Green Energy Limited..
Aluminium Dross	Lumps	See Annex-II	Stored in covered sheds on concrete floors.	In-house recycling and disposed to SPCB authorized re-processor as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv) with maintaining manifest.
Aluminium Dross Residue	Solid Powder	See Annex-II	Stored in covered sheds on concrete floors.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDF, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv) with maintaining manifest.
Pot Duct Cleaning Waste	Solid Powder	See Annex-IV	Stored in covered sheds.	Recycled inside the Pot
Rejected lining of furnace (refractory)	Solid Hard Lumps	See Annex-V	Stored in covered sheds.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDF, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv)
Rejected Refractory of furnace	Solid Hard Lumps	See Annex-V	Stored in covered sheds.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDF, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv)
Shot Blasting Dust(containing Fluoride)	Solid Granular	-	Stored in covered sheds	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDF, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv)
Ladle cleaning residue	Solid Powder & Lumps	See Annex-VI	Stored in covered sheds.	Recycled inside the Pot
Rejected filter Bags (FTP)	Solid Pieces	See Annex-VII	Stored in covered sheds.	Dispose to our own SLF /used in pots..
Asbestos waste	Solid	See Annex-VIII	Stored in covered sheds.	Dispose to our own SLF and disposed to M/s. Ramky
Rejected AlF3 Bags	Solid	See Annex-IX	Stored in covered sheds.	Burning in pots and by back to supplier
Fluoride contaminated	Solid	Not Applicable	Stored in covered sheds.	Recycled inside the Pot

waste (spilled waste from potline)				
Drain cleaning sludge	Solid Powder	See Annex-X	Stored in covered sheds.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDf, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv)
Floor sweeping & housekeeping waste	Solid Powder	See Annex-XI	Stored in covered sheds.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDf, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.(Annexure- xiv)
Tar containing waste	Solid	See Annex-XII	Stored in covered sheds	Recycled inside the Pot relining
ETP sludge	Solid Powder	See Annex-XIII	Stored in covered sheds on concrete floors.	Dispose to M/S Ramky Enviro Engineers LTD. CHWTSDf, Jajapur as per HW (Management, Handling and Transboundary) Movement Rule-2016 and communicated to SPCB.
Used Anode butts	Lumps	See Annex-III	Stored in covered sheds on concrete floors.	In house reprocessing at our own sister plant at Aditya aluminium, Lapanga.
Discarded container/Liners used for Hazardous chemicals	Solid Plastic	Not Applicable	Stored in covered sheds.	Sale to recycler
Used Batteries	Nos	Not Applicable	Stored under covered shed on concrete floor in a designated place	sold / returned on buy back policy to authorized recycler

PART- G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

A Impact of pollution control measures :

- i) All the HSS pots have been converted to PFPB and dry scrubbers (FTP –1, FTP-2, FTP-3 & FTP-4) are being operated for all the pots. Due to this conversion and up-gradation of the smelter the fluoride and other emissions have been reduced to a large extent.
- ii) The operation of FTPs (dry scrubbers) apart from reducing and controlling fluoride emission to the atmosphere to a greater extent, has achieved recycling of fluoride thereby reducing fluoride consumption leading to resource conservation.
- iii) Closed loop cooling towers are operational all the time for casting plant, continuous casting plant, rodding plant, rectifiers, compressors and other equipment thereby reducing the chances of water contamination. Further treatment programmes for cooling water is being undertaken to reduce water consumption.
- iv) Three nos. of Effluent Treatment Plant (ETP)-250KLD two nos. & ETP-50KLD one no. have been installed for treating fluoride with a conventional fluoride treatment followed by double stage Reverse Osmosis & Four nos. STP (500KLD, 100KLD, 400KLD, 300KLD STP) has been installed for plant & colony sewage treatment. The treated water is being completely recycled inside plant. This has further reduced the specific water consumption.
- v) The spent pot lining (SPL) is stored under covered shed on concrete floor. Other alternate usages of SPL particularly in captive power plant are being explored to utilize the calorific value in SPL.
- vi) The used oil generated is either used as lubricant or sold to CPCB/SPCB authorized party with maintaining Manifest.
- vii) The used batteries are properly stored on concrete floor under a designated shed to avoid contamination to environment and are being sold to authorized dealers / returned on buy back policy.
- viii) First time and First Industry in Odisha has installed Real time online stack HF monitoring analyzer and the generation of data connected to SPCB and CPCB server through Y-Cable in GPRS mode.

- ix) We have developed own secured land filling facility (SLF) for proper Management of Hazardous waste and also became a life member of CHWTSDF centre in Odisha for disposal of HW.
- x) We have installed the Real time online AAQ monitoring system and the data transmitted to SPCB server through Y-cable in GPRS mode.
- xi) First industry and First time we have connected online water monitoring F- analyzer and the real time data connected to SPCB server through Y-cable in GPRS mode.
- xii) We have centralized environment database/Env-MIS and SMS gate way system to attend promptly action on environment.
- xiii) We have installed the Real time online Fugitive monitoring system at 80 pot area (235 KA) and the data transmitted to SPCB server through Y-cable in GPRS mode.

B Impact on cost of production :

	During the Previous financial Year 2016- 2017 (Rs)	During the current financial Year 2017- 2018 (Rs.)
i) Total environmental Expenditure (Capitalised)	42871079.00	29553740.00
(Not Capitalised)	<u>201243270.00</u>	<u>263563119.00</u>
	244114349.00	293116859.00
ii) Impact per MT. of Aluminium	1607.063	1810.11

PART- H

Additional measures / investment proposal for environmental protection including abatement of pollution, prevention of pollution.

The budgetary expenditure planned on Environment is around Rs. 37,92,98,334/- for the year **2018-2019**.

PART- I

Any other particulars for improving the quality of the Environment.

A. Community Development :

Expenses on community development during the year 2017-18 for Hirakud Complex is Rs. 136.33 Lakhs.

- B.** Online data transmitted to SPCB through GPRS methods in Y-Cable.
- C.** Online AAQ /Stack/Water/Fugitive Monitoring Station for all potline commissioned and connected to SPCB server.
- D.** Surface run off study of total Hirakud complex completed and implemented.
- E.** Augmentation & Up gradation of plant RBC to 500 KLD STP commissioned.
- F.** Developed new additional 250 KLD & 50 KLD RO-based ETP and commissioned.
- G.** Developed Own SLF and commissioned.
- H.** SMS Gate way and EMS Server Developed.
- I.** The up gradation of colony SSTP from 300 KLD to 400 KLD & a new colony 300KLD STP.
- J.** Online Fluoride analyzer installed at all STP & ETP and the Real time data transferred to SPCB server.
- K.** All pot lines are modified by new pot door without emission & heat loss.
- L.** Replacement of new RO membrane both in R&D backside 250KLD & 80 pot area (235KA) 50KLD ETP.

M. New Ultra Filtration system changed both in R&D backside 250KLD & 80 pot area (235KA) 50KLD ETP.

N. Two new PSF & IRF Filter Installed in R&D backside 250KLD & 80 pot area (235KA) 50KLD ETP.

O. Forced Evaporation system modification & commissioning made in ETP solar pond.

P. Newly Online AAQ system installed in 80 pot area (235KA).

Q. New Online Laser based Fugitive Monitoring system installed at 85 KA Pot line & the real time data are communicated to SPCB server through Y-cable in GPRS mode.

CHEMICAL COMPOSITION

TYPICAL COMPOSITION OF Cathode residue (Spent pot lining)

<u>Parameters</u>	<u>Values (%)</u>
pH	10
Carbon	45 - 50
Aluminium	0.4 - 0.5
Silica	1.0 - 1.5
Iron	0.5 - 1.0
Sodium	15 - 20
Fluoride	10 - 12
Aluminium carbide & nitride	5.0 - 6.0
Cyanide	0.01- 0. 025
Others	10 - 15

TYPICAL COMPOSITION OF DROSS

(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
Alumina	40 - 60
Aluminium	20 - 25
Carbides	5 - 8
Nitrides	0.01 – 0.05
Iron	0.5 – 1.0

ANNEXURE – III

TYPICAL COMPOSITION OF ANODE BUTT
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
Chromium	0.04 - 0.06
Molybdenum	0.139 - 0.233
Vanadium	3.19 – 3.27
Fluoride	0.161 – 0.361
Chloride	0.263 – 0.379
Iron	7.0 -16.0
Manganese	0.069 – 0.132
Nitrate (NO ₃ ⁻)	0.204 – 0.432
Sulphur (S)	2.43 – 3.53

ANNEXURE – IV

TYPICAL COMPOSITION OF POT DUCT CLENGING WASTE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	5.90
Cobalt	0.0006
Nickel	0.0458
Copper	0.0183
Lead	0.0056
Fluoride	7.0 – 8.0
Zinc	0.0031

ANNEXURE – V

TYPICAL COMPOSITION OF REJECTED LINING OF FURNACE
(REFRACTORY) (Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	7.11
Chromium	0.064
Molybdenum	0.209
Vanadium	0.273
Fluoride	2.86
Chloride	0.069
Iron	0.182
Manganese	0.064
Nitrate (NO ₃ ⁻)	0.017
Sulphur (S)	0.029
Silicon	3.18

ANNEXURE – VI

TYPICAL COMPOSITION OF LADDLE CLEANING RESIDUE
(Unit : mg/Lit & mg/Kg)

<u>Parameters</u>	<u>Values (mg/Lit & mg/Kg)</u>
pH	7.25
Ammonia as N	< 1 mg/Lit
Fluoride	< 1 mg/Lit
Nitrate Nitrogen	< 1 mg/Lit
Arsenic	< 0.1 mg/Kg
Cadmium	< 0.5 mg/Kg
Chromium(Total)	15.57 mg/Kg
Hexavalent Chromium	< 5.0 mg/Kg
Lead (Total)	< 10.0 mg/Kg
Nickel (Total)	9.26 mg/Kg
Zinc (Total)	29.34 mg/Kg
Copper (Total)	13.24 mg/Kg

ANNEXURE – VII

TYPICAL COMPOSITION OF REJECTED FILTER BAG
(Unit : mg/Lit & mg/Kg)

<u>Parameters</u>	<u>Values (mg/Lit & mg/Kg)</u>
Ammonia as N	< 1 mg/Lit
Fluoride	< 1 mg/Lit
Nitrate Nitrogen	< 1 mg/Lit
Arsenic	< 0.1 mg/Kg
Cadmium	< 0.5 mg/Kg
Chromium(Total)	15.57 mg/Kg
Hexavalent Chromium	< 5.0 mg/Kg
Lead (Total)	< 10.0 mg/Kg
Nickel (Total)	9.26 mg/Kg
Zinc (Total)	29.34 mg/Kg
Copper (Total)	13.24 mg/Kg

ANNEXURE – VIII

TYPICAL COMPOSITION OF ASBESTOS WASTE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	9.47
Nickel	0.0017
Copper	0.0005
Lead	0.0015
Fluoride	0.0210

ANNEXURE – IX

TYPICAL COMPOSITION OF REJECTED AlF₃ Bags
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	6.21
Copper	0.0014
Fluoride	3.50

ANNEXURE – X

TYPICAL COMPOSITION OF DRAIN CLEANING SLUDGE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	6.60
Nickel	0.0060
Copper	0.0066
Lead	0.0020
Fluoride	0.630
Zinc	0.026

ANNEXURE – XI

TYPICAL COMPOSITION OF FLOOR SWEEPING WASTE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	6.32
Nickel	0.0004
Copper	0.0010
Fluoride	0.1450
Zinc	0.0003

ANNEXURE – XII

TYPICAL COMPOSITION OF TAR CONTAINING WASTE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
pH	9.21
Nickel	0.0052
Copper	0.1260
Lead	0.0179
Fluoride	0.0560
Zinc	0.0155
Vanadium	0.0013
Zinc	0.0155
Chromium	0.0045
Cadmium	0.0001

ANNEXURE – XIII

TYPICAL COMPOSITION OF ETP SLUDGE
(Unit : %)

<u>Parameters</u>	<u>Values (%)</u>
Calcium Fluoride	1.42
Barium	0.00334
Calcium	0.99
Cobalt	0.0006
Chromium	0.0005
Copper	0.0012
Iron	0.24
Potassium	0.0218
Magnesium	0.35
Manganese	0.0123
Sodium	0.0939
Nickel	0.0048
Zinc	0.0169
Phosphorus	0.0729
Titanium	0.0040

DETAILS OF DISPOSAL (2017-18)

ANNEXURE – XIV

Hazardous Waste disposal in (2017-18)

Serial No:	Type of hazardous waste	Disposal of hazardous waste in MT per Annum(2017-18)
i	Used oil (in KL/Annum)	31.57
ii	Waste containing oil	1.033
iii	Spent Pot Lining (Cathode residues)	855.85
iv	Aluminium Dross	4101.09
v	Aluminium Dross (Residue)	1208.22
vi	Pot Duct Cleaning Waste	0
vii	Rejected lining of furnace (refractory)	0
viii	Rejected Refractory of furnace	0
ix	Shot Blasting Dust (Containing Fluoride)	69.82
x	Ladle cleaning residue	14.63
xi	Rejected filter Bags (FTP)	0
xii	Asbestos waste	0
xiii	Rejected AlF3 Bags	0.023
xiv	Fluoride contaminated waste (spilled waste from potline)	28.14
xv	Drain cleaning sludge	1.19
xvi	Floor sweeping & housekeeping waste	365.5
xvii	ETP sludge	1.16
xviii	Used Anode butts	20365.010
xix	Discarded container/Liners used for Hazardous chemicals	0

Detail Disposal of SPL(2017-18) Quantities in MT

CHALLAN NO	DATE	PARTY	TRUCK NO	QUANTITY (MT)	DESCRIPTION	MTD
9651	21.06.2017	GREEN ENERGY	OR15S 0849	15.02	SPENT POT LINING (ONLY CARBON PORTION)	
9652	23.06.2017	GREEN ENERGY	OD15D 5269	13.91	SPENT POT LINING (ONLY CARBON PORTION)	
9653	24.06.2017	GREEN ENERGY	OD15D 5269	13.88	SPENT POT LINING (ONLY CARBON PORTION)	
9654	26.06.2017	GREEN ENERGY	OD15D 5269	13.74	SPENT POT LINING (ONLY CARBON PORTION)	
9655	28.06.2017	GREEN ENERGY	OD15D 5269	13.9	SPENT POT LINING (ONLY CARBON PORTION)	
9656	29.06.2017	GREEN ENERGY	OD15D 5269	14.03	SPENT POT LINING (ONLY CARBON PORTION)	84.48
9657	5.07.2017	GREEN ENERGY	OD15D 5309	13.65	SPENT POT LINING (ONLY CARBON PORTION)	
9658	6.07.2017	GREEN ENERGY	OD15D 5269	13.92	SPENT POT LINING (ONLY CARBON PORTION)	
9659	8.07.2017	SUBHRA CHEMICALS	OR09H 2767	15.37	SPENT POT LINING	
9660	12.07.2017	SUBHRA CHEMICALS	OR15P 6126	15.18	SPENT POT LINING	
9661	15.07.2017	SUBHRA CHEMICALS	OR05AE 8292	15.49	SPENT POT LINING	
9662	17.07.2017	GREEN ENERGY	OD15D 5439	13.81	SPENT POT LINING (ONLY CARBON PORTION)	
9663	18.07.2017	SUBHRA CHEMICALS	OR21A 9598	15.59	SPENT POT LINING	
9664	19.07.2017	GREEN ENERGY	OD15D 5439	12.77	SPENT POT LINING (ONLY CARBON PORTION)	
9665	21.07.2017	SUBHRA CHEMICALS	OR06F 6330	15.57	SPENT POT LINING	
9666	24.07.2017	GREEN ENERGY	OD15D 5439	13.9	SPENT POT LINING (ONLY CARBON PORTION)	145.25
9667	3.08.2017	GREEN ENERGY	OR15K 1519	14.97	SPENT POT LINING (ONLY CARBON PORTION)	
9668	3.08.2017	GREEN ENERGY	OD15D 5369	13.27	SPENT POT LINING (ONLY CARBON PORTION)	
9669	4.08.2017	GREEN ENERGY	OD15D 5369	14.4	SPENT POT LINING (ONLY CARBON PORTION)	
9670	7.08.2017	GREEN ENERGY	OD15D 5369	13.27	SPENT POT LINING (ONLY CARBON PORTION)	
9671	11.08.2017	GREEN ENERGY	OD15D 5439	13.78	SPENT POT LINING (ONLY CARBON PORTION)	
9672	12.08.2017	GREEN ENERGY	OD15D 5309	14.11	SPENT POT LINING (ONLY CARBON PORTION)	
9673	16.08.2017	GREEN ENERGY	OD15D 5439	13.97	SPENT POT LINING (ONLY CARBON PORTION)	
9674	17.08.2017	GREEN ENERGY	OD15D 5439	13.82	SPENT POT LINING (ONLY CARBON PORTION)	
9675	25.08.2017	GREEN ENERGY	OD15D 5439	14.02	SPENT POT LINING (ONLY CARBON PORTION)	
9676	25.08.2017	SUBHRA CHEMICALS	OR15N 4566	15.31	SPENT POT LINING	
9677	28.08.2017	GREEN ENERGY	OD15D 5269	13.65	SPENT POT LINING (ONLY CARBON PORTION)	
9678	28.08.2017	GREEN ENERGY	OD15D 5369	13.82	SPENT POT LINING (ONLY CARBON PORTION)	168.39
9679	1.09.2017	GREEN ENERGY	OR15K 1767	14.51	SPENT POT LINING (ONLY CARBON PORTION)	
9680	1.09.2017	GREEN ENERGY	OR15K 1519	14.92	SPENT POT LINING (ONLY CARBON PORTION)	
9681	2.09.2017	SUBHRA CHEMICALS	OR09G 1411	15.01	SPENT POT LINING	
9682	4.09.2017	GREEN ENERGY	OR15K 1519	14.89	SPENT POT LINING (ONLY CARBON PORTION)	
9683	11.09.2017	SUBHRA CHEMICALS	OR06H 8191	20.31	SPENT POT LINING	
9684	12.09.2017	GREEN ENERGY	OD15D 5439	13.66	SPENT POT LINING (ONLY CARBON PORTION)	
9685	13.09.2017	GREEN ENERGY	OD15D 5269	14	SPENT POT LINING (ONLY CARBON PORTION)	
9686	20.09.2017	GREEN ENERGY	OD15D 5369	13.85	SPENT POT LINING (ONLY CARBON PORTION)	
9687	20.09.2017	GREEN ENERGY	OD15D 5439	13.73	SPENT POT LINING (ONLY CARBON PORTION)	
9688	21.09.2017	SUBHRA CHEMICALS	OD05AB 0076	20.37	SPENT POT LINING	
9689	21.09.2017	SUBHRA CHEMICALS	OD05Q 0370	19.93	SPENT POT LINING	175.18
9690	5.10.2017	SUBHRA CHEMICALS	OD06C 1862	19.26	SPENT POT LINING	
9691	5.10.2017	SUBHRA CHEMICALS	OR06H 8191	20.27	SPENT POT LINING	
9692	6.10.2017	GREEN ENERGY	OR15K 1519	14.75	SPENT POT LINING (ONLY CARBON PORTION)	
9693	6.10.2017	GREEN ENERGY	OD15D 5269	13.74	SPENT POT LINING (ONLY CARBON PORTION)	
9694	7.10.2017	GREEN ENERGY	OR15K 1519	14.41	SPENT POT LINING (ONLY CARBON PORTION)	
9695	25.10.2017	GREEN ENERGY	OD15D 5269	13.14	SPENT POT LINING (ONLY CARBON PORTION)	
9696	25.10.2017	GREEN ENERGY	OD15D 5369	13.69	SPENT POT LINING (ONLY CARBON PORTION)	
9697	26.10.2017	GREEN ENERGY	OD15D 5369	14.01	SPENT POT LINING (ONLY CARBON PORTION)	
9698	28.10.2017	GREEN ENERGY	OD15D 5369	13.61	SPENT POT LINING (ONLY CARBON PORTION)	
9699	31.10.2017	GREEN ENERGY	OD15D 5369	14.03	SPENT POT LINING (ONLY CARBON PORTION)	150.91
9700	2.11.2017	GREEN ENERGY	OD15D 5269	13.46	SPENT POT LINING (ONLY CARBON PORTION)	
7101	3.11.2017	GREEN ENERGY	OD15D 5269	14.64	SPENT POT LINING (ONLY CARBON PORTION)	
7102	10.11.2017	GREEN ENERGY	OD15D 5449	13.68	SPENT POT LINING (ONLY CARBON PORTION)	
7103	10.11.2017	GREEN ENERGY	OR15K 1519	13.57	SPENT POT LINING (ONLY CARBON PORTION)	
7104	20.11.2017	GREEN ENERGY	OR15K 1519	15.54	SPENT POT LINING (ONLY CARBON PORTION)	
7105	20.11.2017	GREEN ENERGY	OR15K 1767	15.6	SPENT POT LINING (ONLY CARBON PORTION)	
7106	24.11.2017	GREEN ENERGY	OR15K 1519	16.18	SPENT POT LINING (ONLY CARBON PORTION)	
7107	24.11.2017	GREEN ENERGY	OD15D 5369	14.72	SPENT POT LINING (ONLY CARBON PORTION)	
7108	24.11.2017	GREEN ENERGY	OD15D 5269	14.25	SPENT POT LINING (ONLY CARBON PORTION)	131.64
			TOTAL	855.85		

Detail Disposal of Aluminium Dross (2017-18) Quantities in MT

DETAILS OF ALUMINIUM DROSS DISPOSAL (2017-18)					
Sl. No	Challan No.	Date	Party Name	Truck No.	Quantity (MT)
1	C0001/1718	4-Apr-17	JAI MAA RANI SATI METALS	OD23D 7101	19.65
2	C0002/1718	8-Apr-17	JAI MAA RANI SATI METALS	CG12AQ 6997	25.53
3	C0003/1718	8-Apr-17	JAI MAA RANI SATI METALS	CG12AM 7965	24.28
4	C0004/1718	18-Apr-17	JAI MAA RANI SATI METALS	OD23D 5101	19.98
5	C0005/1718	20-Apr-17	SIDDHI INDUSTRIES	RJ09GB 1453	26.05
6	C0006/1718	21-Apr-17	SIDDHI INDUSTRIES	RJ27GC 2559	25.14
7	C0007/1718	22-Apr-17	SIDDHI INDUSTRIES	RJ06GA 2320	29.03
8	C0008/1718	24-Apr-17	SHRI SAI METALLIK	OR15N 5785	14.83
9	C0009/1718	25-Apr-17	SHRI SAI METALLIK	OR15L 5549	15.82
10	C0010/1718	26-Apr-17	HIRAKUD METALLICS	OR15N 7703	15.84
11	C0011/1718	27-Apr-17	SHRI SAI METALLIK	OD15D 9895	19.89
12	C0012/1718	28-Apr-17	SIDDHI INDUSTRIES	RJ26GA 3675	25.12
13	C0013/1718	29-Apr-17	HIRAKUD METALLICS	OR15M 0489	15.52
14	C0014/1718	29-Apr-17	HIRAKUD METALLICS	OD15A 2298	15.41
15	C0019/1718	8-May-17	SIDDHI INDUSTRIES	RJ06GA 8013	29.27
16	C0020/1718	9-May-17	SIDDHI INDUSTRIES	RJ26GB 2496	28.02
17	C0021/1718	10-May-17	HIRAKUD METALLICS	OD15F 6957	15.19
18	C0022/1718	13-May-17	SIDDHI INDUSTRIES	RJ09GC 1051	28.67
19	C0023/1718	15-May-17	JAI MAA RANI SATI METALS	CG12AQ 7893	24.52
20	C0024/1718	16-May-17	A K ENTERPRISERS	OR15S 8832	15.08
21	C0025/1718	16-May-17	JAI MAA RANI SATI METALS	CG12S 3050	19.68
22	C0026/1718	16-May-17	A K ENTERPRISERS	OR15H 9299	14.64
23	C0027/1718	17-May-17	SHRI SAI METALLIK	OR15R 8057	15.53
24	C0028/1718	17-May-17	A K ENTERPRISERS	OD15C 9954	15.7
25	C0029/1718	17-May-17	A K ENTERPRISERS	OR021B 1155	14.37
26	C0031/1718	18-May-17	A K ENTERPRISERS	OR15M 2691	15.45
27	C0032/1718	18-May-17	A K ENTERPRISERS	OR09H 2767	15.12
28	C0033/1718	19-May-17	A K ENTERPRISERS	OR05AJ 9725	15.29
29	C0034/1718	19-May-17	JAI MAA RANI SATI METALS	OR23E 3852	20.21
30	C0035/1718	20-May-17	SIDDHI INDUSTRIES	RJ06GB 5906	26.25
31	C0036/1718	20-May-17	A K ENTERPRISERS	OD21E 4925	19.84
32	C0037/1718	22-May-17	A K ENTERPRISERS	OD05U 4600	19.5
33	C0038/1718	22-May-17	A K ENTERPRISERS	OR15M 0489	15.79
34	C0039/1718	22-May-17	A K ENTERPRISERS	OR15S 8832	15.58
35	C0042/1718	23-May-17	A K ENTERPRISERS	OR21B 2652	15.24

36	C0043/1718	23-May-17	A K ENTERPRISERS	OR15Q 0008	15.29
37	C0044/1718	23-May-17	A K ENTERPRISERS	OD15C 0651	18.98
38	C0045/1718	24-May-17	HIRAKUD METALLICS	OD15J 1686	15.22
39	C0046/1718	24-May-17	A K ENTERPRISERS	OR15N 9291	15.84
40	C0047/1718	24-May-17	HIRAKUD METALLICS	OR15S 1585	13.13
41	C0048/1718	25-May-17	A K ENTERPRISERS	OD15 9613	15.35
42	C0049/1718	25-May-17	A K ENTERPRISERS	OR15N 8269	15.6
43	C0050/1718	25-May-17	SIDDHI INDUSTRIES	GJ15YY 0704	21.09
44	C0051/1718	26-May-17	SIDDHI INDUSTRIES	RJ09GC 0202	25.52
45	C0052/1718	26-May-17	A K ENTERPRISERS	OR15M 2691	15.29
46	C0053/1718	27-May-17	A K ENTERPRISERS	OR09H 2767	15.87
47	C0054/1718	1-Jun-17	A K ENTERPRISERS	OR15Q 0008	15.76
48	C0055/1718	3-Jun-17	A K ENTERPRISERS	OR15S 0259	15.79
49	C0056/1718	3-Jun-17	A K ENTERPRISERS	OR15R 5969	15.66
50	C0057/1718	6-Jun-17	A K ENTERPRISERS	OD05U 4600	20.06
51	C0059/1718	10-Jun-17	A K ENTERPRISERS	OD06C 1862	19.77
52	C0060/1718	10-Jun-17	HIRAKUD METALLICS	OR15S 1585	15.78
53	C0061/1718	12-Jun-17	HIRAKUD METALLICS	OD15H 1686	15.53
54	C0062/1718	12-Jun-17	A K ENTERPRISERS	OR15S 4422	15.49
55	C0063/1718	12-Jun-17	A K ENTERPRISERS	OR15Q 0008	15.49
56	C0064/1718	13-Jun-17	HIRAKUD METALLICS	OR15Q 2153	15.44
57	C0065/1718	13-Jun-17	A K ENTERPRISERS	OR02AD 4031	15.43
58	C0066/1718	13-Jun-17	A K ENTERPRISERS	OR05AN 8233	15.54
59	C0067/1718	20-Jun-17	HIRAKUD METALLICS	OD15C 9202	20.71
60	ODHRM174D00002	11-Jul-17	HIRAKUD METALLICS	OR15P 1632	15.98
61	ODHRM174D00005	12-Jul-17	HIRAKUD METALLICS	OD15E 5111	15.52
62	ODHRM174D00006	12-Jul-17	HIRAKUD METALLICS	OD15B 5476	15.17
63	ODHRM174D00011	14-Jul-17	HIRAKUD METALLICS	OD15A 3476	15.49
64	ODHRM174D00012	14-Jul-17	HIRAKUD METALLICS	OR15N 6981	15.88
65	ODHRM174D00021	19-Aug-17	A K ENTERPRISERS	OR09H 2767	15.67
66	ODHRM174D00022	21-Aug-17	GAURAV ALUMINIUM	CG12AN 7034	24.54
67	ODHRM174D00025	23-Aug-17	SIDDHI INDUSTRIES	RJ26GA 1920	28.58
68	ODHRM174D00026	24-Aug-17	A K ENTERPRISERS	OD33J 4188	20.27
69	ODHRM174D00027	25-Aug-17	A K ENTERPRISERS	OD05T 3988	19.73
70	ODHRM174D00030	29-Aug-17	SIDDHI INDUSTRIES	OR15L 5885	15.19
71	ODHRM174D00031	30-Aug-17	HIRAKUD METALLICS	OR15S 5391	15.52
72	ODHRM174D00031	1-Sep-17	SHRI SAI METALLIK	OR15R 8135	20.09
73	ODHRM174D00037	4-Sep-17	HIRAKUD METALLICS	OD15F 6835	20.22
74	ODHRM174D00038	4-Sep-17	HIRAKUD METALLICS	OR23E 3852	19.79
75	ODHRM174D00040	5-Sep-17	A K ENTERPRISERS	OR15M 3121	15.91
76	ODHRM174D00042	8-Sep-17	A K ENTERPRISERS	OD33J 4188	19.98

77	ODHRM174D00043	9-Sep-17	SIDDHI INDUSTRIES	RJ26GA 3693	28.87
78	ODHRM174D00047	13-Sep-17	A K ENTERPRISERS	OR15P 4354	15.25
79	ODHRM174D00053	19-Sep-17	SHRI SAI METALLIK	OR09F 0208	14.62
80	ODHRM174D00057	25-Sep-17	GAURAV ALUMINIUM	CG12s 1230	19.82
81	ODHRM174D00059	26-Sep-17	SHRI SAI METALLIK	OD15F 4424	15.24
82	ODHRM174D00060	27-Sep-17	GAURAV ALUMINIUM	MP20HB 3319	19.96
83	ODHRM174D00065	4-Oct-17	GAURAV ALUMINIUM	OD14H 4223	19.41
84	ODHRM174D00066	4-Oct-17	GAURAV ALUMINIUM	OD16B 9111	19.63
85	ODHRM174D00067	5-Oct-17	GAURAV ALUMINIUM	CG04DN 2175	20.51
86	ODHRM174D00070	6-Oct-17	GAURAV ALUMINIUM	OD16B 1125	20.01
87	ODHRM174D00074	6-Oct-17	GAURAV ALUMINIUM	OD15H 3123	19.07
88	ODHRM174D00075	7-Oct-17	GAURAV ALUMINIUM	OD16B 1025	19.36
89	ODHRM174D00076	7-Oct-17	GAURAV ALUMINIUM	OD16B 9111	19.7
90	ODHRM174D00077	10-Oct-17	GAURAV ALUMINIUM	OD04D 1086	20.25
91	ODHRM174D00078	11-Oct-17	SHRI SAI METALLIK	OR15L 4781	15.79
92	ODHRM174D00079	11-Oct-17	GAURAV ALUMINIUM	WB23C 4713	15.46
93	ODHRM174D00082	16-Oct-17	GAURAV ALUMINIUM	OR15M 1785	15.76
94	ODHRM174D00087	17-Oct-17	GAURAV ALUMINIUM	OR15Q 7185	15.49
95	ODHRM174D00097	24-OCT-17	GAURAV ALUMINIUM	OR15P 5995	14.89
96	ODHRM174D00100	25-OCT-17	GAURAV ALUMINIUM	OD04K 1545	20.09
97	ODHRM174D00108	30-OCT-17	GAURAV ALUMINIUM	OR09H 1635	15.22
98	ODHRM174D00113	2-NOV-17	GAURAV ALUMINIUM	OD15D 6177	16.34
99	ODHRM174D00117	3-NOV-17	GAURAV ALUMINIUM	OR15N 7558	16.83
100	ODHRM174D00118	6-NOV-17	GAURAV ALUMINIUM	OD15D 1794	15.81
101	ODHRM174D00119	7-NOV-17	GAURAV ALUMINIUM	OR15S 3594	15.42
102	ODHRM174D00123	9-NOV-17	GAURAV ALUMINIUM	OD15E 8957	19.93
103	ODHRM175000125	11-NOV-17	GAURAV ALUMINIUM	OR23F 5581	8.85
104	ODHRM175000126	11-NOV-17	GAURAV ALUMINIUM	OR15Q 1785	16.26
105	ODHRM175000127	13-NOV-17	SIDDHI INDUSTRIES	RJ06GA 8454	22.03
106	ODHRM175000128	14-NOV-17	GAURAV ALUMINIUM	MP20HB 3319	20.89
107	ODHRM175000135	15-NOV-17	SIDDHI INDUSTRIES	RJ27CB 2909	24.29
108	ODHRM175000134	15-NOV-17	SHRI SAI METALLIK	OD15E 3767	21.93
109	ODHRM175000132	15-NOV-17	SHRI SAI METALLIK	OR15R 8135	21.06
110	ODHRM175000138	15-NOV-17	GAURAV ALUMINIUM	OD15R 0588	21.23
111	ODHRM175000139	15-NOV-17	GAURAV ALUMINIUM	OR09H 8731	16.98
112	ODHRM175000140	15-NOV-17	GAURAV ALUMINIUM	OR09G 4848	16.83
113	ODHRM175000143	16-NOV-17	GAURAV ALUMINIUM	OD15F 1872	20.26
114	ODHRM175000146	17-NOV-17	SIDDHI INDUSTRIES	RJ05GC 2221	25.35
115	ODHRM174D00148	18-NOV-17	GAURAV ALUMINIUM	OR23F 5581	15.8
116	ODHRM174D00150	18-NOV-17	GAURAV ALUMINIUM	OD34C 5275	21.26
117	ODHRM174D00152	22-NOV-17	GAURAV ALUMINIUM	CG12S 1230	21.59

118	ODHRM174D00158	24-NOV-17	GAURAV ALUMINIUM	OR15P 7521	15.82
119	ODHRM174D00160	27-NOV-17	GAURAV ALUMINIUM	MP20HB 3348	21.21
120	ODHRM174D00162	28-NOV-17	GAURAV ALUMINIUM	CG12S 1230	20.44
121	ODHRM174D00163	29-NOV-17	SHRI SAI METALLIK	OD15F 5796	20.65
122	ODHRM174D00164	29-NOV-17	GAURAV ALUMINIUM	OR23F 5581	16.01
123	ODHRM174D00167	30-NOV-17	SIDDHI INDUSTRIES	GJ07UU 9595	21.45
124	ODHRM174D00168	30-NOV-17	GAURAV ALUMINIUM	WB23C 5577	17.17
125	ODHRM174D00169	30-NOV-17	GAURAV ALUMINIUM	OR23F 5581	15.88
126	ODHRM174D00172	2-DEC-17	GAURAV ALUMINIUM	CG04DN 2175	20.76
127	ODHRM174D00175	4-DEC-17	GAURAV ALUMINIUM	CG12AR 0138	24.9
128	ODHRM174D00176	5-DEC-17	GAURAV ALUMINIUM	OR15K 6177	16
129	ODHRM174D00177	6-DEC-17	GAURAV ALUMINIUM	CG12S 1230	20.2
130	ODHRM174D00179	7-DEC-17	SHRI SAI METALLIK	OD15G 1592	20.5
131	ODHRM174D00180	7-DEC-17	GAURAV ALUMINIUM	OD15D 5786	15.77
132	ODHRM174D00184	9-DEC-17	GAURAV ALUMINIUM	OR11K 4749	21.22
134	ODHRM174D00185	11-DEC-17	GAURAV ALUMINIUM	OR15R 8057	16.97
135	ODHRM174D00187	12-DEC-17	GAURAV ALUMINIUM	OR15M 1989	15.44
136	ODHRM174D00192	12-DEC-17	SHRI SAI METALLIK	OD31A 5131	20.54
137	ODHRM174D00196	13-DEC-17	GAURAV ALUMINIUM	CG12AN 3650	20.84
138	ODHRM174D00197	13-DEC-17	GAURAV ALUMINIUM	CG12S 1230	20.68
139	ODHRM174D00201	15-DEC-17	GAURAV ALUMINIUM	OD16B 9111	20.95
140	ODHRM174D00202	15-DEC-17	A.K ENTERPRISERS	ODO2AF 2047	20.33
141	ODHRM174D00203	16-DEC-17	GAURAV ALUMINIUM	OD16C 3186	20.57
142	ODHRM174D00204	16-DEC-17	GAURAV ALUMINIUM	CG12S 2702	20.79
143	ODHRM174D00205	18-DEC-17	GAURAV ALUMINIUM	OR15Q 2476	16.11
144	ODHRM174D00206	19-DEC-17	GAURAV ALUMINIUM	CG12S 1230	20.86
145	ODHRM174D00207	20-DEC-17	A K ENTERPRISERS	OR05U 0837	16.13
146	ODHRM174D00208	20-DEC-17	GAURAV ALUMINIUM	OR15N 4759	15.95
147	ODHRM174D00211	20-DEC-17	A K ENTERPRISERS	OR21C 9325	16.29
148	ODHRM174D00218	22-DEC-17	GAURAV ALUMINIUM	OD15G 4562	15.21
149	ODHRM174D00219	22-DEC-17	GAURAV ALUMINIUM	OD15D 6177	15.38
150	ODHRM174D00221	26-DEC-17	GAURAV ALUMINIUM	CG12S 1230	20.78
151	ODHRM174D00222	27-DEC-17	A.K ENTERPRISERS	OR15Q 8908	14.99
152	ODHRM174D00223	27-DEC-17	A K ENTERPRISERS	OR09H 2767	16.21
153	ODHRM174D00224	27-DEC-17	GAURAV ALUMINIUM	OR15N 5966	15.59
154	ODHRM174D00227	28-DEC-17	GAURAV ALUMINIUM	OD15C 9533	21.14
155	ODHRM174D00228	29-DEC-17	A.K ENTERPRISERS	OD04K 4957	16.51
156	ODHRM174D00229	29-DEC-17	GAURAV ALUMINIUM	OR15R 1286	16.01
157	ODHRM174D00231	30-DEC-17	SHRI SAI METALLIK	GJ25U 5492	24.94
158	ODHRM174D00232	01-JAN-18	SHRI SAI METALLIK	OD15E 1592	20.89
159	ODHRM174D00233	02-JAN-18	A K ENTERPRISERS	OR15Q 0008	16.5

160	ODHRM174D00234	04-JAN-18	GAURAV ALUMINIUM	CG15CY 4419	26.35
161	ODHRM174D00235	04-JAN-18	A.K ENTERPRISERS	OD04H 0913	16.63
162	ODHRM174D00236	04-JAN-18	GAURAV ALUMINIUM	CG12S 1230	21.21
163	ODHRM174D00241	05-JAN-18	SHRI SAI METALLIK	OD15F 3492	12.88
164	ODHRM174D00239	06-JAN-18	A.K ENTERPRISERS	OR15L 5885	15.26
165	ODHRM174D00243	08-JAN-18	A.K ENTERPRISERS	OR15N 1872	13.87
166	ODHRM174D00246	09-JAN-18	GAURAV ALUMINIUM	OR15N 5527	10.59
167	ODHRM174D00247	09-JAN-18	A.K ENTERPRISERS	OD15J 3446	15.21
168	ODHRM174D00250	11-JAN-18	A.K ENTERPRISERS	OR15J 2157	15.59
169	ODHRM174D00251	11-JAN-18	GAURAV ALUMINIUM	RJ40GA 1462	20.73
170	ODHRM174D00254	12-JAN-18	A K ENTERPRISERS	OD15E 8605	15.81
171	ODHRM174D00255	13-JAN-18	GAURAV ALUMINIUM	OD15F 9585	16.19
172	ODHRM174D00257	16-JAN-18	A K ENTERPRISERS	OD05M 7725	21.1
173	ODHRM174D00258	17-JAN-18	GAURAV ALUMINIUM	OD15 9585	16.18
174	ODHRM174D00259	17-JAN-18	GAURAV ALUMINIUM	OD16D 3999	21.33
175	ODHRM174D00261	18-JAN-18	GAURAV ALUMINIUM	OD16E 3999	25.07
176	ODHRM174D00263	19-JAN-18	A K ENTERPRISERS	OR05AR 6165	20.5
177	ODHRM174D00266	20-JAN-18	A K ENTERPRISERS	OD05G 1275	20.92
178	ODHRM174D00267	20-JAN-18	A K ENTERPRISERS	OR05AG 1575	16.71
179	ODHRM174D00269	23-JAN-18	A K ENTERPRISERS	OR09H 2767	15.36
180	ODHRM174D00270	23-JAN-18	GAURAV ALUMINIUM	OD04G 3875	21.51
181	ODHRM174D00272	23-JAN-18	SHRI SAI METALLIK	OD15F 3492	20.57
182	ODHRM174D00275	24-JAN-18	A K ENTERPRISERS	OD05AA 7175	21.81
183	ODHRM174D00276	24-JAN-18	GAURAV ALUMINIUM	CG12AR 1895	19.32
184	ODHRM174D00280	29-JAN-18	A K ENTERPRISERS	OR09H 2767	14.32
185	ODHRM174D00281	29-JAN-18	GAURAV ALUMINIUM	OR15S 5138	15.93
186	ODHRM174D00285	31-JAN-18	GAURAV ALUMINIUM	OD15F 1129	20.89
187	ODHRM174D00287	3-FEB-18	GAURAV ALUMINIUM	OR15M 6097	16.16
188	ODHRM174D00287	5-FEB-18	GAURAV ALUMINIUM	OR15N 5527	14.06
189	ODHRM174D00289	6-FEB-18	GAURAV ALUMINIUM	OR15R 5885	16.13
190	ODHRM174D00294	8-FEB-18	A K ENTERPRISERS	OR09H 2767	15.68
191	ODHRM174D00299	10-FEB-18	GAURAV ALUMINIUM	OR09K 3086	16.56
192	ODHRM174D00308	14-FEB-18	GAURAV ALUMINIUM	OR23D 0412	20.85
193	ODHRM174D00309	14-FEB-18	A K ENTERPRISERS	OR15N 7703	16.03
194	ODHRM174D00310	16-FEB-18	GAURAV ALUMINIUM	OR04N 2819	16.64
195	ODHRM174D00314	20-FEB-18	A K ENTERPRISERS	OR01T 6312	21.22
196	ODHRM174D00317	20-FEB-18	GAURAV ALUMINIUM	WB11C 5166	21.17
197	ODHRM174D00319	22-FEB-18	GAURAV ALUMINIUM	CG12AN 3650	20.99
198	ODHRM174D00324	23-FEB-18	A K ENTERPRISERS	OR09H 2767	16.61
199	ODHRM174D00330	26-FEB-18	GAURAV ALUMINIUM	OD09D 7755	21.26
200	ODHRM174D00336	5-MAR-18	SHRI SAI METALLIK	OR15R 5885	16.89

201	ODHRM174D00339	8-MAR-18	GAURAV ALUMINIUM	CG13L 1917	21.12
202	ODHRM174D00340	9-MAR-18	GAURAV ALUMINIUM	OD16B 1251	21.3
203	ODHRM174D00346	12-MAR-18	A K ENTERPRISERS	OR021C 3637	16.81
204	ODHRM174D00347	12-MAR-18	GAURAV ALUMINIUM	OD16B 1251	20.88
205	ODHRM174D00351	13-MAR-18	GAURAV ALUMINIUM	WB11D 7266	16.4
206	ODHRM174D00352	14-MAR-18	GAURAV ALUMINIUM	CG12S 1230	20.91
207	ODHRM174D00358	15-MAR-18	GAURAV ALUMINIUM	CG10C 1855	16.92
208	ODHRM174D00362	17-MAR-18	A K ENTERPRISERS	OR15M 2691	16.7
209	ODHRM174D00364	17-MAR-18	SHRI SAI METALLIK	OD15C 8788	15.65
210	ODHRM174D00368	20-MAR-18	GAURAV ALUMINIUM	CG12AR 3783	25.44
211	ODHRM174D00369	21-MAR-18	A K ENTERPRISERS	OR15Q 0008	16.02
212	ODHRM174D00372	22-MAR-18	A K ENTERPRISERS	OD05D 5292	17.03
213	ODHRM174D00373	22-MAR-18	GAURAV ALUMINIUM	CG12AN 3650	21.39
214	ODHRM174D00374	28-MAR-18	SHRI SAI METALLIK	OD15F 4424	16.46
215	ODHRM174D00375	28-MAR-18	A K ENTERPRISERS	OD02AH 4447	16.38
216	ODHRM174D00376	28-MAR-18	GAURAV ALUMINIUM	WB11C 5166	21.74
217	ODHRM174D00377	28-MAR-18	GAURAV ALUMINIUM	WB11D 7266	15.92
218	ODHRM174D00377	29-MAR-18	GAURAV ALUMINIUM	OR15M 6127	16.53
219	ODHRM174D00388	30-MAR-18	GAURAV ALUMINIUM	OD15F 2786	21.39
220	ODHRM174D00389	30-MAR-18	SHRI SAI METALLIK	OR15R 5172	16.14
221	ODHRM174D00390	30-MAR-18	SHRI SAI METALLIK	OR09G 7067	16.62
222	ODHRM174D00393	31-MAR-18	A K ENTERPRISERS	OR05AV 0405	17.78
223	ODHRM174D00394	31-MAR-18	GAURAV ALUMINIUM	CG04DA 8527	17.36
					4101.09

DETAILS OF RAMKY DISPOSAL (2017-18)

DETAILS OF RAMKY DISPOSAL (2017-18)				
CHALLAN NO	DATE	TRUCK NO	QUANTITY (MT)	DESCRIPTION
6661	6.04.2017	OD09A 2994	13.94	ALUMINIUM DROSS RESIDUE
6662	11.04.2017	OD09A 2994	13.61	ALUMINIUM DROSS RESIDUE
6663	19.04.2017	OR04H 3956	14.77	ALUMINIUM DROSS RESIDUE
6664	20.04.2017	OD09A 2994	14.18	SHOT BLASTING DUST
6665	24.04.2017	OD09A 2994	13.98	ALUMINIUM DROSS RESIDUE
6666	26.04.2017	OR04H 3956	14.56	FLOOR SWEEPING DUST
6667	27.04.2017	OR09N 4428	14.33	FLOOR SWEEPING DUST
6668	27.04.2017	OR09N 4428	14.53	ALUMINIUM DROSS RESIDUE
6669	3.05.2017	OD09A 2994	13.91	FLOOR SWEEPING DUST
6670	4.05.2017	OR09N 4428	14.27	FLOOR SWEEPING DUST
6671	5.05.2017	OR09N 4428	14.26	FLOOR SWEEPING DUST
6672	10.05.2017	OD09A 2994	13.92	ALUMINIUM DROSS RESIDUE
6673	12.05.2017	OR09N 4428	14.26	ALUMINIUM DROSS RESIDUE
6674	13.05.2017	OD09A 2994	13.76	FLOOR SWEEPING DUST
6675	16.05.2017	OR09N 4428	1.16	ETP SLUDGE
6676	16.05.2017	OR09N 4428	13.18	ALUMINIUM DROSS RESIDUE
6677	16.05.2017	OR09N 4628	14.58	FLOOR SWEEPING DUST
6678	18.05.2017	OR04H 3956	14.88	FLOOR SWEEPING DUST
6679	18.05.2017	OD09A 2994	12.12	SHOT BLASTING DUST
6680	19.05.2017	OR09N 4428	14.38	ALUMINIUM DROSS RESIDUE
6681	22.05.2017	OD09A 2994	13.46	ALUMINIUM DROSS RESIDUE
6682	23.05.2017	OR04H 3956	14.17	ALUMINIUM DROSS RESIDUE
6683	9.06.2017	OD09A 2994	14.1	ALUMINIUM DROSS RESIDUE
6684	12.06.2017	OR04H 3956	14.97	FLOOR SWEEPING DUST
6685	12.06.2017	OD09A 2994	14.03	FLOOR SWEEPING DUST
6686	13.06.2017	OR09N 4628	14.69	FLOOR SWEEPING DUST
6687	13.06.2017	OR09N 4428	14.62	FLOOR SWEEPING DUST
6688	16.06.2017	OD09A 2994	13.55	ALUMINIUM DROSS RESIDUE
6689	20.06.2017	OR09N 4428	14.03	ALUMINIUM DROSS RESIDUE
6690	27.06.2017	OD09A 2994	14.07	ALUMINIUM DROSS RESIDUE
6691	3.07.2017	OD09A 2994	13.89	ALUMINIUM DROSS RESIDUE
6692	10.07.2017	OR15S 2870	14.11	ALUMINIUM DROSS RESIDUE
6693	11.07.2017	OD09A 2994	14.15	ALUMINIUM DROSS RESIDUE
6694	17.07.2017	OR15S 2870	14.26	ALUMINIUM DROSS RESIDUE
6695	24.07.2017	OR15S 2870	13.6	ALUMINIUM DROSS RESIDUE
6696	25.07.2017	OD09A 2994	13.68	ALUMINIUM DROSS RESIDUE
6697	28.07.2017	OR15S 2870	14.52	ALUMINIUM DROSS RESIDUE

6698	1.08.2017	OD09A 2994	13.63	ALUMINIUM DROSS RESIDUE
6699	2.08.2017	OR15S 2870	14.23	FLOOR SWEEPING DUST
6700	3.08.2017	OR04H 3956	14.76	FLOOR SWEEPING DUST
6751	4.08.2017	OD09A 2994	14.22	ALUMINIUM DROSS RESIDUE
6752	4.08.2017	OR09N 4428	14.8	SHOT BLASTING DUST
6753	8.08.2017	OR04H 3956	15.01	ALUMINIUM DROSS RESIDUE
6754	9.08.2017	OD09A 2994	14.12	FLOOR SWEEPING DUST
6755	10.08.2017	OR15S 2870	13.8	FLOOR SWEEPING DUST
6756	16.08.2017	OD09A 2994	14.04	ALUMINIUM DROSS RESIDUE
6757	17.08.2017	OR15S 2870	14.33	ALUMINIUM DROSS RESIDUE
6758	21.08.2017	OR04H 3956	14.68	ALUMINIUM DROSS RESIDUE
6759	25.08.2017	OD09A 2994	13.83	ALUMINIUM DROSS RESIDUE
6760	31.08.2017	OD09A 2994	14.14	ALUMINIUM DROSS RESIDUE
6761	6.09.2017	OD09A 2994	14.02	ALUMINIUM DROSS RESIDUE
6762	7.09.2017	OR15S 2870	14.16	ALUMINIUM DROSS RESIDUE
6764	8.09.2017	OR04H 3956	15.28	SHOT BLASTING DUST
6766	11.09.2017	OD09A 2994	14.03	ALUMINIUM DROSS RESIDUE
6767	15.09.2017	OD09A 2994	13.91	ALUMINIUM DROSS RESIDUE
6768	25.09.2017	OR15S 2870	13.96	ALUMINIUM DROSS RESIDUE
6769	26.09.2017	OR04H 3956	13.77	FLOOR SWEEPING DUST
6770	3.10.2017	OR04H 3956	14.84	ALUMINIUM DROSS RESIDUE
6771	4.10.2017	OD09A 2994	14.12	ALUMINIUM DROSS RESIDUE
6772	5.10.2017	OR04H 3956	14.53	ALUMINIUM DROSS RESIDUE
6773	9.10.2017	OR04H 3956	14.7	ALUMINIUM DROSS RESIDUE
6774	11.10.2017	OR04H 3956	14.98	FLOOR SWEEPING DUST
6775	12.10.2017	OR09N 4628	14.62	ALUMINIUM DROSS RESIDUE
6776	14.10.2017	OR15S 2870	14.47	ALUMINIUM DROSS RESIDUE
6777	16.10.2017	OR04H 3956	14.92	FLOOR SWEEPING DUST
6778	20.10.2017	OR04H 3956	14.9	ALUMINIUM DROSS RESIDUE
6779	26.10.2017	OR04H 3956	15.19	ALUMINIUM DROSS RESIDUE
6780	27.10.2017	OR15S 2870	14.29	FLOOR SWEEPING DUST
6781	28.10.2017	OR04H 3956	14.8	ALUMINIUM DROSS RESIDUE
6782	31.10.2017	OR04H 3956	14.92	ALUMINIUM DROSS RESIDUE
6783	1.11.207	OR15S 2870	15.36	FLOOR SWEEPING DUST
6784	3.11.2017	OR04H 3956	13.44	SHOT BLASTING DUST
6785	7.11.2017	OR04H 3956	16.08	ALUMINIUM DROSS RESIDUE
6786	10.11.2017	OR04H 3956	16.38	FLOOR SWEEPING DUST
6787	13.11.2017	OR04H 3956	16.02	ALUMINIUM DROSS RESIDUE
6788	18.11.2017	OR15S 2870	15.29	ALUMINIUM DROSS RESIDUE
6789	18.11.2017	OR04H 3956	16.1	ALUMINIUM DROSS RESIDUE
6790	20.11.2017	OR04H 3956	16.34	FLOOR SWEEPING DUST

6791	21.11.2017	OD09A 2994	15.06	FLOOR SWEEPING DUST
6792	22.11.2017	OR15S 2870	15.74	ALUMINIUM DROSS RESIDUE
6793	28.11.2017	OR15S 2870	15.25	ALUMINIUM DROSS RESIDUE
6794	28.11.2017	OR04H 3956	16.2	ALUMINIUM DROSS RESIDUE
6795	4.12.2017	OR15S 2870	15.48	ALUMINIUM DROSS RESIDUE
6796	8.12.2017	OR04H 3956	16.24	ALUMINIUM DROSS RESIDUE
6797	13.12.2017	OR04H 3956	15.6	ALUMINIUM DROSS RESIDUE
6798	18.12.2017	OR04H 3956	16.1	ALUMINIUM DROSS RESIDUE
6799	21.12.2017	OR04H 3956	15.92	ALUMINIUM DROSS RESIDUE
6800	21.12.2017	OD09A 2994	12.08	ALUMINIUM DROSS RESIDUE
8901	29.12.2017	OR04H 3956	16.07	ALUMINIUM DROSS RESIDUE
8902	3.01.2018	OR04H 3956	16.1	ALUMINIUM DROSS RESIDUE
8903	6.01.2018	OR04H 3956	16.17	ALUMINIUM DROSS RESIDUE
8904	9.01.2018	OR04H 3956	16.06	ALUMINIUM DROSS RESIDUE
8905	15.01.2018	OR04H 3956	16.13	ALUMINIUM DROSS RESIDUE
8906	16.01.2018	OD09A 2994	15.16	ALUMINIUM DROSS RESIDUE
8907	22.01.2018	OR04H 3956	16.53	ALUMINIUM DROSS RESIDUE
8908	25.01.2018	OR04H 3956	15.94	ALUMINIUM DROSS RESIDUE
8909	29.01.2018	OR04H 3958	16.14	ALUMINIUM DROSS RESIDUE
8910	3.02.2018	OD09A 2994	14.87	ALUMINIUM DROSS RESIDUE
8911	6.02.2018	OD09A 2994	14.63	FLOOR SWEEPING DUST
8912	7.02.2018	OD15J 9719	20.76	ALUMINIUM DROSS RESIDUE
8913	14.02.2018	OR04H 3956	16.37	ALUMINIUM DROSS RESIDUE
8914	20.02.2018	OR04H 3956	16.15	ALUMINIUM DROSS RESIDUE
8915	23.02.2018	OR04H 3956	16.4	ALUMINIUM DROSS RESIDUE
8916	28.02.2018	OD15J 9719	20.82	ALUMINIUM DROSS RESIDUE
8917	5.03.2018	OR04H 3956	16.18	ALUMINIUM DROSS RESIDUE
8918	6.03.2018	OR09N 4428	15.65	ALUMINIUM DROSS RESIDUE
8919	7.03.2018	OR04H 3956	14.26	SHOT BLASTING DUST
8920	9.03.2018	OR04H 3956	16.26	ALUMINIUM DROSS RESIDUE
8921	14.03.2018	OR04H 3956	16.34	ALUMINIUM DROSS RESIDUE
8921	14.03.2018	OR04H 3956	20.71	ALUMINIUM DROSS RESIDUE
8922	19.03.2018	OD15J 9720	16.61	ALUMINIUM DROSS RESIDUE
8923	26.03.2018	OR04H 3956	15.49	ALUMINIUM DROSS RESIDUE
		TOTAL	1658.96	

Despatch of Used Anode Butts (2017-18) Quantities in MT

2017-18	INTERPLANT DESPATCH	TOTAL
Month	LAPANGA(Aditya)	GRAND TOTAL
APR	1444.680	1,444.680
MAY	1730.930	1,730.930
JUNE	1756.270	1,756.270
JULY	1649.110	1,649.110
AUG	1724.060	1,724.060
SEP	1651.160	1,651.160
OCT	1625.680	1,625.680
NOV	1757.200	1,757.200
DEC	1910.970	1,910.970
JAN	1826.440	1,826.440
FEB	1567.990	1,567.990
MAR	1720.520	1720.520
Yearly Cumulative (2017-18)		20365.010