

ANNEXURE

ENVIRONMENTAL STATEMENT FORM-V

(See rule 14)

Environmental Statement for the financial year ending with 31st March 2025.

PART-A

i. Name and address of the owner/occupier of the industry, operation, or process.

**K.R. Moses,
Allison Transmission India Pvt Ltd.,
A21, SIPCOT Industrial Park,
Oragadam, Sriperumbudur Taluk,
Kanchipuram district-602 105.**



ii. Industry category Primary- (STC Code) Secondary- (STC Code)-NA

iii. Production category – **Large Scale Units.**

iv. Year of establishment- **2009-10**

v. Date of the last environmental statement submitted. - **10th Sep 2024**

PART. B

Water and Raw Material Consumption:

i. Water consumption in m³/d

Process: As **per attached annexure A**

Cooling: As **per attached annexure A**

Domestic: As **per attached annexure A**



Name of the Product	Process water consumption per unit of products	
	During the previous financial year	During the current financial year
1. Pinion Gear.	0.58 Litres	0.36 Litres
2. Sun Gear.	0.58 Litres	0.36 Litres
3. Ring Gear.	0.58 Litres	0.36 Litres
4. Transmission assembly.	2.60 Litres	6.40 Litres
5. Transmission assembly housing component.	93.75 Litres	253.56 Litres

Note:

Product under sl#5- Transmission assembly housing component production commenced from September 2022.

Total Process water consumption in FY24-25 --- 1400.5 kl. (Canteen consumption of 105.571 kl excluded)

Assembly Process water consumption in FY24-25 --- 101.5 kl (7.2%)

(Note: Calculated from holding tank capacity and water replacement schedule for the tanks in Assembly section.

Manufacturing (Gears) Process water consumption FY 24-25 --- 359.1 kl (25.6%)

Housing machining Process water consumption FY 24-25 --- 939.9 kl (67.1%)

Housing line water consumption has increased in comparison to last financial year. The new coolant oil Process has been initiated and resulting in higher consumption.

ii. Raw material consumption

Name of raw materials*	Name of Products	Consumption of raw material per unit of Output.	
		During the previous financial year (Kgs)	During the current financial year (kgs)
Gear blanks.	Pinion Gears	0.37 kgs	0.37 kgs
	Sun Gears	1.40 kgs	1.36 kgs
	Ring Gears	3.79 kgs*	3.77 kgs*
	Transmission Assembly.	NA (Only Assembling, No depletion of material)	NA (Only Assembling, No depletion of material)
	Transmission assembly housing component	150.45 Kgs**	140.28 Kgs**

Note:

- *The above calculated values are weighted average for machined parts against known blank and finished parts weight.*

PART-C

Pollution discharged to environment/unit of output.

(Parameter as specified in the consent issued)

Pollutants	Quantity of Pollutants discharged. (mass/day)	Concentration of Pollutants discharged (mass/volume)	Percentage of variation from prescribed standards with reasons.
a) Water	STP:19.6 KLD (Treated water used for green belt) ETP:0.56 KLD	Attached as per Annexure B	No deviation.
b) Air	All the Values are within the Limits.	Attached as per Annexure B	No deviation.

Note:

Compliance to standards is above 100% of all the measured samples. (636 Parameters confirming to Specifications of the total 636 monitored.)

PART-D

HAZARDOUS WASTES

(As specified under Hazardous Wastes (Management & Handling Rules, 1989).

Hazardous Wastes Total Quantity (Kg)	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
1. From Process (waste residues containing oil)	12099.5 Kgs	21356 kgs
2. From Pollution Control Facilities (Chemical sludge from WWTP)	4361 kgs	2860 kgs
3. Used/Spent Oil/Oil & grease	10096 kgs	11419 kgs
4. Spent solvents	26 ltrs	12 ltrs
5. Discarded containers	2728.5 kgs	1980 kgs

Note:

- Incremental quantity in hazardous waste generation is due to new production line. Production commenced from September 2022.
- For converting the (used oil) units from litres to kg conversion ratio of 1 is used. The above values are generation for the FY 24-25.

- Enhanced awareness and implementation of ISO systems across the shop floor has resulted in effective waste segregation and reduced contamination.

PART. E

SOLID WASTES:

Solid Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current Financial year.
a. From process (Iron burr from Machining process)	473011	499595
b. From Pollution Control Facility	Nil	Nil
c. Quantity recycled or re-utilised within the unit.	99431	196061

Note:

- (i) Expansion project contributed to the increased Constructed Metal scrap generation from previous year. (Metal scrap quantity increase by 88% from previous year)
- (ii) Iron, casting ferrous and ferrous scrap are generated from process. SI#a in the listing.
- (iii) Introduced recycling of the wood for housing component transportation safety. (Wooden packaging to prevent damages to part)

Details attached in Annexure-G

- i) Packing materials mostly wooden, cardboard and steel scraps are being sent to scrap vendors for Re-use. (Item a & c in the above table)

PART . F

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

Attached as per Annexure-F.

PART-G

Impact of the pollution control measures taken on conservation of natural Resources and consequently on the cost of production.

- 1) Reduction of Domestic water per capita consumption from 1.78 kl/employee/month to 1.62 kl/employee/month. (9% reduction from the previous year FY 23-24)

Waste reduction/material usage:

- 2) Digitalization of reports and documents to reduce paper usage has been undertaken plantwide.

Energy initiatives:

- 3) 76.2% of the total energy consumed is through renewable source in FY 24 -25 (wind and solar energy harnessing). A total of 4943995 Kwh harnessed through renewable source.
- 4) 200 nos of replacement of LED lamps at selected areas across offices and shop floor.
- 5) Management Programmed to reduce Specific energy consumption by 6% from previous year (23-24). 135 units per product in FY 2023-2024 to 127 units per product upto Mar 2025.

PART. H

Additional measures/investment proposal for environmental protection Including abatement of pollution.

Nil.

PART. I

MISCELLANEOUS:

Any other particulars in respect of environmental protection and abatement of pollution.

- ❖ We have planted 7000 trees across our plant premises through various environment initiatives. Environmental day celebrated with active participation from all employees. (Photos attached)

Allison Transmission India Pvt Ltd.Chennai



Water Consumption Details for Environment Statement Month wise for the year April 2024 to March 2025

Annexure A

S.no	Description	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total Consumption in KL	Total Production qty in nos.	Cons./unit (KL)
1	Process (kl/d)	122.7	121.8	99.8	149.8	90.6	130	83.3	111.5	115	151.5	160.5	169.6	1506.10	1023411	0.001
2	Cooling (kl/d)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1023411	0.0000
3	Domestic (kl/d)	809.2	893.1	663.9	853.8	652.33	830.3	934	1097.8	988.6	998.4	913	982.2	10616.63	1023411	0.01

Note: Domestic water used for chilled water circulation. For fill up of the chiller Hot/Cold water tanks.

Annexure B

WATER DISCHARGE DETAILS

S.no	Description	Consented Limits (KLD)	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Avg kl/Day
1	Sewage Discharge	33.5	442.4	557.3	520.7	620.6	498.7	534.1	599	632.4	641.6	636.1	706.2	775.6	19.6
2	ETP Discharge	2.2	18.2	20.5	12.4	11.9	18.5	13.6	18	13.8	18.1	20.3	20.4	18.5	0.56

Note: All the Discharge values are within the consented limits.

STP Discharge

Annexure D

S.no	Characteristics	Unit	Tolerance Limits Outlet NO.	STP TREATED											
				Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25
1	pH	Number	6.5 - 9	6.83	7.08	6.87	7.01	7	6.87	6.82	6.89	7.09	7.37	7.03	6.98
2	Total suspended solids	mg/l	<50	18	16	17.3	16	8	10	18	16	16	24	18	6
3	Total Dissolved Solids (Inorganics)	mg/l	NA	560	720	640	860	530	664	846	482	948	648	570	580
4	Oil & Grease	mg/l	NA	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ
5	BOD 3 days @27 C	mg/l	20	7	5	7	9	5	8	6	7	8	7	4	5
6	COD	mg/l	NA	34	24	32	42	24	36	32	40	36	28	20	28
7	Ammonical Nitrogen	mg/l	NA	8.83	34	34.55	46.29	8.3	9.86	29.02	16.58	12.62	2.67	2.48	2.52
8	Total Kjeldahl Nitrogen	mg/l	NA	13.59	52.36	53.21	71.28	12.78	15.18	44.69	25.53	19.5	4.6	3.82	3.88
9	F-coil	mg/l	<1000MPN/100 ml	70	70	48	39	32	94	150	34	63	34	38	63

Hazardous waste category



Annexure- F

Hazardous Waste generation and Disposal Quantity In the Year 2024-25.

S.no	Description	Generation	Category	Units	Consented qty	Generated qty	Disposed Qty	Disposable practice.
1	Used/Spent Oil	Production process (Lubricants and coolants.)	Schedule#1, Category#5.1	Kgs	51300	8899	8190	To Govt. Authorised recycler with Form#10 and TREM card.
2	Wates/Residues Containing oil	From production process.(Gear machining)	Schedule#1, Category#5.2	Kgs	27000	21356	19958	To Govt. Authorised vendor with Form#10 and TREM card.
3	Chemical Sludge From Waste Water Treatment	From water treatment plant.	Schedule#1, Category#35.3	Kgs	3000	2860	2910	To Govt. Authorised vendor with Form#10 and TREM card.
4	Oil skimmed residues in kgs	From water treatment plant.	Schedule#1, Category#35.4	Kgs	3000	2520	2730	To Govt. Authorised vendor with Form#10 and TREM card.
5	Spent solvents	From chemical lab	Category 20.2, Schedule-1 as per HWM Rule	Kgs	700	12	12	To Govt. Authorised vendor with Form#10 and TREM card.
6	Discarded containers/Barrels /liners contaminated with hazardous wastes/chemicals	From Manufacturing process/Maintenance.	Category 33.1, Schedule-1 as per HWM Rules	Kgs	15000	1980	1980.5	To Govt. Authorised recycler with Form#10 and TREM card.

Note: The Generated and disposal qty mentioned above for Sl. nos. 1,4 & 5 are in litres.



Allison Transmission India Pvt Ltd Chennai
Annexure F

Hazardous Waste data - Month wise for the year April 2024 to March 2025

Description	Schedule	Consented Quantity litres or Kg/Year	Opening stock as on 1st April 2024	Month-wise Data												YTD	closing stock as on 31st Mar 25													
				Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25															
Used Oil/Spent Oil	Category 5.1, Schedule-1 as per HWM Rules	51,300 Tonnes per Year	801	330	590	1470	1260	600	2100	1382	420	1220	1890	117	1260	210	0	60	0	1200	1470	1510	0	8899	8190	1510				
Oil Contaminated Wastes/Residues	Category 5.2, Schedule-1 as per HWM Rules	27.0 Tonnes per Year	1217.5	705	800	2087	1613.5	0	855	2977	720	0	1000	0	1700	3354	3764	3590	1170	0	2420	0	3993	7950	2615	0	21356	19958	2615	
Sludge from Wastewater Treatment [Including dried residues from Solar Evaporation Pans]	Category 35.3, Schedule-1 as per HWM Rules	3 Tonnes per Year.	50	280	0	1900	2080	120	0	180	450	20	0	40	0	20	80	0	0	0	0	0	0	300	300	0	0	2860	2910	0
Oil and Grease skimming residues (Oily sludge)	Category 35.4, Schedule-1 as per HWM Rules	3.0 Tonnes per Year	210	420	0	210	840	630	0	210	210	210	0	210	0	210	1260	86	0	40	0	0	0	294	420	0	0	2520	2730	0
Spent Solvents	Category 20.2, Schedule-1 as per HWM Rules	0.7 Tonnes (200 Kgs) per year	0	3	0	2	3	0	0	1	3	1	0	5	0	0	6	0	0	0	0	0	0	0	0	0	0	12	12	0
Discarded containers/Barrels /liners contaminated with hazardous wastes/chemicals	Category 33.1, Schedule-1 as per HWM Rules	15 Tonnes per Year	285.5	302	516	50	0	92.5	0	254	0	205	642	48	0	366.5	445.5	148	0	364	0	0	377	0	150	0	1980.0	1980.5	285	

Allison Transmission India Pvt Ltd, Chennai

Annexure G



Non- Hazardous Waste Generated and recycled Information

S.no	Description of Waste	UOM	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total	Production Qty	Scrap/Unit
1	Wooden scrap	Kg	3638	4750	3711	4739	3281	3285	2880	2659	2827	3560	5622	11580	52542	1023411	0.05
2	Ferrous/iron scrap (burr)	Kg	13100	18580	16820	23230	15151	21942	18637	16274	17205	19330	19180	18410	217859	1023411	0.21
3	Alloy steel scrap	Kg	286	2060	1344	627	0	0	0	0	3920	752.5	0	8470	17459.5	1023411	0.02
4	Alloy steel & casting iron scrap	Kg	2080	634.5	0	3915	0	632	0	2062	247	120.5	0	330	10021	1023411	0.01
5	Aluminium scrap	Kg	88	0	0	0	238	30	0	0	114	0	43	0	513	1023411	0.001
6	Cardboard - Corrugated carton	Kg	2166	2050	1404	1390	1050	1524	1081	1346	1365	1930	2504	2416	20226	1023411	0.020
7	Plastic Scrap	Kg	0	0	0	114	0	0	0	563	0	0	548.5	0	1225.5	1023411	0.001
8	Construction Metal scrap	Kg	1079	850	440	0	4291	2126	1260	4600	0	18830	32658	27940	94074	1023411	0.092

Allison Transmission India Pvt Ltd, Chennai
Annexure - H



Production data Month wise.

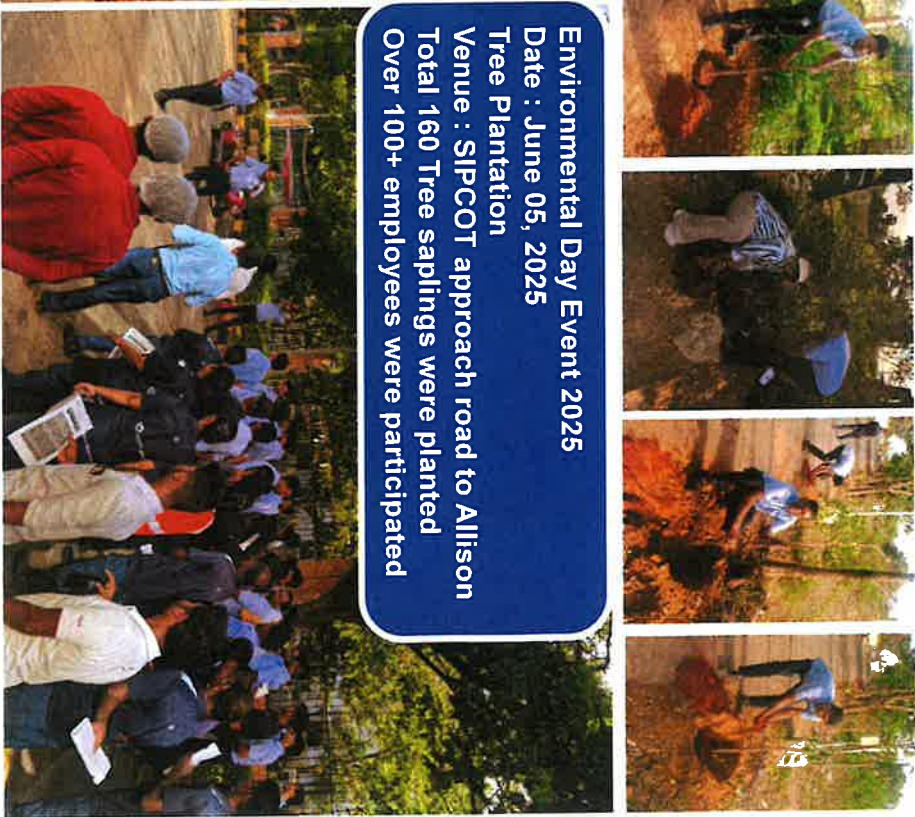
S.no	Description of Waste	Consented	Units	Apr-24	May-24	Jun-24	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Total Gears
		Quantity Nos/ Year														
1	Transmission gears (Pinion/Sun/Ring)	2009280	Nos	92168	90656	81176	86696	93652	89589	78491	70207	70564	79095	90364	81182	1003840
2	Transmission Assembly	50232	Nos	1483	1524	1372	1749	1446	1338	1591	963	944	1222	1055	1187	15864
3	Transmission Assembly Housing components	19440	Nos	300	403	500	440	172	338	293	300	201	250	320	190	3707
Tone wheel included to 3K4K Ring gears (756 no.s)															Grand Total	1023411

1K2K gear produced is used in Transmission assembly. Transmission assembly inclusive of manifold Coolers: 15864 nos. Transmission assembly housing components: 3707 nos produced for the FY 24-25

Note: - We have produced 1003840 nos against a consented quantity of 2009280 numbers per year for Sun/Pinion/ Ring gear quantity for the FY 24-25.

Environmental Day Event

Jun 05, 2025



Environmental Day Event 2025
Date : June 05, 2025
Tree Plantation
Venue : SIPCOT approach road to Allison
Total 160 Tree saplings were planted
Over 100+ employees were participated

