



स्टील अथॉरिटी ऑफ इण्डिया लिमिटेड
STEEL AUTHORITY OF INDIA LIMITED
सेलम इस्पात संयंत्र
SALEM STEEL PLANT

Ref.No: PC -9(2)
Date : 23.12.25

To
The Additional Principal Chief Conservator of Forests,
Ministry of Environment, Forests, & Climate Change (MoEFCC),
Regional Office- South Eastern Zone,
1st & 2nd Floor, HEPC Building,
N0.34, Cathedral Garden Road,
Nungambakkam,
Chennai-600034.
Ph: 044- 2822 2325.

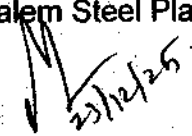
Sir:

Sub: Setting up of Hot Rolling facilities at Salem Steel Plant by SAIL – Six monthly Compliance Report for Environmental clearance conditions - Reg.

01. This has reference to your letter no:EP/12.1/54/TN201 dated 12.04.2007 on the above subject.
02. Compliance report for the stipulations is enclosed vide Annexure.
03. We wish to inform you that the project was commissioned in Sep' 1995 and is in operation since then. The analysis reports of Stack Emission, Ambient Air Quality, Effluent & ground water quality from Apr'25 to Sep'25 along with statistical interpretation are enclosed. (Annexure I to III). Effluent quality from HRM is also enclosed vide Annexure-IV. Afforestation details are enclosed vide Annexure V.
04. All the conditions stipulated in EC issued by MOEF & CC have been complied and Environment monitoring is carried out by SSP & Statutory authorities, as required.

Thanking you,

Yours faithfully
For Steel Authority Of India Limited
Salem Steel Plant


DB Daniel
Chief General Manager I/c (Works)

Encl: As above

HOT ROLLING FACILITIES

Compliance to stipulations vide office memorandum no: J/11011/20/90-IA-II, dated: 21.03.91 from ministry of Environment & Forests, New Delhi.

- i) Being adhered to.
- ii) Noted and will be adhered to.
- iii) Results of the Stack monitoring for the months of Apr'25 to Sep'25 are presented in Annexure-I.
- iv) Three ambient air quality monitoring stations have been set up in consultation with TNPC Board. AAQ results for the stations monitored during the months of Apr'25 to Sep'25 along with statistical interpretation are presented in Annexure-II. The results indicate that the parameters are well with in the norms prescribed by TNPC Board.

Stack emission monitoring results for the Hot rolling mill furnace exhaust conducted during Apr'25 to Sep'25 shows that the SO₂ and NO_x levels very much below the norms. Results along with statistical interpretation are enclosed in Annexure -I. Considering the very low concentration of SO₂ & NO_x, providing of continuous stack emission monitoring equipment for the stack may be exempted.

- v) Already furnished.
- vi) Treated effluent is being completely recycled for process usage.
- vii) There are two outlets for the effluent from plant. One effluent quality monitoring station has been set up in consultation with TNPC Board. Effluent quality results for the months of Apr'25 to Sep'25 along with statistical interpretation are given in Annexure III. The results show that the parameters are generally well within the norms prescribed by TNPC Board. The effluent from HRM is being analysed regularly and the results are furnished in Annexure -IV. However, this effluent does not contain any pollutants due to the nature of process and is recycled into process.
- viii) Treated effluent is being completely recycled for process usage.
- ix) Nine ground water sample stations have been set up in consultation with TNPC Board. Two inside the plant premises in the afforestation area. Four on the upstream of the plant and three wells located downstream of the plant.

M. Chandrasekhar

Samples are collected at the nine stations and got analysed for pH, fluorides & nitrates (these are taken as indicators of pollution as nitric & hydrofluoric acids are being used in pickling process) once in 3 months. The analysis results of ground water samples for Apr'25 to Sep'25 are presented in Annexure -III.

- x) A Disaster management Plan has been prepared by our Environment Management Division and submitted along with the final EIA / EMP reports.
- xi) Trees are being planted in a systematic way taking into consideration the canopy area. Already 356142 trees have been planted covering an area of about 225.436 hectares. Details are furnished in Annexure -V.
- xii) Already set up.
- xiii) Noted and will be adhered to.

M. Leangjeng

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : APRIL			
					Year : 2025			
1. Name of the Plant				SALEM STEEL PLANT				
2. Name of the shop				Steel Melting Shop /Cold Rolling Mill/ Hot Rolling Mill				
3. Process				Steel Melting , Hot rolling, Annealing & Pickling , Cold Rolling				
4. Control equipment installed				Scrubbers, Cyclones, Bag Filters				
5. Sampling by				External Agencies				
Stack No & Details	Exit Vel (m/s, Avg)	Temp.K (Avg)	Flow Rate (NM3/Hr Avg)	No.Of Obs	Parameters Avg. (mg/nm3)			Remarks
					SPM	SO2	NOx	
Coiler No 1 HRM Stack	11.1	467	7970	1	25.3	3.0	21.0	
APL-2Brightening	9.5	307	7249	1	13.1	3.0	2.0	
HRM Reheating Furnace	10.8	460	37433	1	37.6	3.0	52.0	
APL-1Brightening	11.2	315	8124	1	13.9	3.0	2.0	
APL-2 Shot Blasting	9.6	320	7029	1	13.5	3.0	2.0	
APL-1 Electrolytic	10.7	311	5130	1	14.8	3.0	2.0	
Z Mill -2 Fume Exhaust	11.8	311	4444	1	14.5	3.0	2.0	
APL-1 Equalization	11.6	402	3820	1	16.6	3.0	2.0	
Sendzimier Mill 2 (Motor Commutator)	12.6	310	28652	1	15.4	3.0	2.0	
Boiler (FBC-1)old	11.5	382	26321	1	33.2	3.0	12.2	
Senzimier Mill 2 (Oil Cellar)	11	311	18414	1	13.9	3.0	2.0	
BDL : Below Detectable Limits								

M. Leavel

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : MAY			
					Year : 2025			
1. Name of the Plant				SALEM STEEL PLANT				
2. Name of the shop				Steel Melting Shop /Cold Rolling Mill/ Hot Rolling Mill				
3. Process				Steel Melting ,Hot rolling, Annealing & Pickling , Cold Rolling				
4. Control equipment installed				Scrubbers, Cyclones, Bag Filters				
5. Sampling by				External Agencies.				
Stack No & Details	Exit Vel (m/s, Avg)	Temp.K (Avg)	Flow Rate (NM3/Hr Avg)	No.Of Obs	Parameters Avg. (mg/nm3)			Remarks
					SPM	SO2	NOx	
APL-3 Mixed Acid	14.4	436	9619	1	13.6	3.0	7.0	
APL-3 Pre Pickling	9.2	309	2168	1	12.9	3.0	2.0	
HRM Reheating Furnace	9.6	416	36591	1	36.5	3.0	10.6	
APL-2Brightening	9.6	310	7037	1	13.1	3.0	2.0	
APL-2 Shot Blasting	10.4	309	6232	1	13.2	3.0	2.0	
APL-2 Electrolytic	10.4	309	24259	1	13.8	3.0	2.0	
Z Mill -2 Fume Exhaust	10.8	309	40716	1	13.4	3.0	2.0	
Boiler (FBC-2)old	10.5	397	24497	1	23.1	3.0	12.5	
AOD Stack	15.3	342	159602	1	39.5	3.0	2.0	
EAF LF Stack	10.9	341	413738	1	38.3	3.0	16.0	
Z Mill -1 Fume Exhaust	13.4	309	44486	1	14.6	3.0	2.0	
BDL : Below Detectable Limit								

M. Chandrasekhar

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : JUNE			
					Year : 2025			
1. Name of the Plant					SALEM STEEL PLANT			
2. Name of the shop					Steel Melting Shop /Cold Rolling Mill/ Hot Rolling Mill			
3. Process					Steel Melting ,Hot rolling, Annealing & Pickling , Cold Rolling			
4. Control equipment installed					Scrubbers, Cyclones, Bag Filters			
5. Sampling by					External Agencies.			
Stack No & Details	Exit Vel (m/s, Avg)	Temp.K (Avg)	Flow Rate (NM3/Hr Avg)	No.O f Obs	Parameters Avg. (mg/nm3)			Remarks
					SPM	SO2	NOx	
APL-3 Mixed Acid	11.9	347	10037	1	13.8	3.0	8.0	
APL-3 Pre Pickling	9.9	327	2215	1	13.6	3.0	2.0	
HRM Reheating Furnace	14.4	574	39914	1	37.6	3.0	18.0	
APL-2Brightening	10.6	314	7725	1	13.8	3.0	2.0	
APL-2 Shot Blasting	11.1	315	6932	1	13.9	3.0	2.0	
APL-1 Electrolytic	9.9	313	5231	1	14.3	3.0	2.0	
Z Mill -1 Fume Exhaust	10.9	312	40894	1	12.8	3.0	2.0	
Boiler (FBC NEW)	13.1	402	19141	1	26.4	3.0	51.0	
AOD Stack	11.1	340	159197	1	41.3	3.0	2.0	
EAF LF Stack	10.8	343	409517	1	39.3	3.0	16.0	
Z Mill -2 Fume Exhaust	11.0	311	41400	1	13.2	3.0	2.0	
APL-1Brightening	10.0	316	7241	1	13.4	3.0	2.0	
2MW DG Stack-1	13.6	462	2856	1	42.8	3.0	325	
2MW DG Stack-3	13.9	464	2876	1	43.7	3.0	366	
DG 250 KVA (Town ship)	12.7	446	525	1	19.6	3.0	105.3	
BDL : Below Detectable Limit								

M. Leung

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : JULY			
					Year : 2025			
1. Name of the Plant				SALEM STEEL PLANT				
2. Name of the shop				Steel Melting Shop /Cold Rolling Mill/ Hot Rolling Mill				
3. Process				Steel Melting ,Hot rolling, Annealing & Pickling , Cold Rolling				
4. Control equipment installed				Scrubbers, Cyclones, Bag Filters				
5. Sampling by				External Agencies.				
Stack No & Details	Exit Vel (m/s, Avg)	Temp. K (Avg)	Flow Rate (NM3/Hr Avg)	No .Of Obs	Parameters Avg. (mg/nm3) SPM SO2 NOx			Remarks
APL-3 Mixed Acid	13.4	422	9387	1	15.9	3.0	13.0	
APL-3 Pre Pickling	9	307	2167	1	13.6	3.0	2.0	
HRM Reheating Furnace	10.7	440	39142	1	38.4	3.0	23.6	
APL-1Brightening	9.9	306	7346	1	13.8	3.0	2.0	
APL-2 Shot Blasting	9.1	307	6838	1	13.8	3.0	2.0	
APL-1 Electrolytic	9.9	309	5341	1	13.6	3.0	2.0	
Z Mill -1 Fume Exhaust	10.5	309	40178	1	14.7	3.0	2.0	
Boiler (FBC NEW)	10.8	393	16590	1	33.6	3.0	59.7	
AOD Stack	10.5	336	113325	1	39.2	3.0	2.0	
EAF LF Stack	9.9	349	373222	1	41.5	3.0	19.0	
Z Mill -2 Fume Exhaust	9.7	308	37242	1	15.9	3.0	2.0	
AC Motor Ventilation	9.7	307	20297	1	12.8	3.0	2.0	
APL-2 Electrolytic	9.4	310	24901	1	14.2	3.0	2.0	
APL-3 Shot Blasting	9.3	309	100851	1	32.3	3.0	2.0	
Oil Cellar Ventilation	9.9	310	9415	1	13.8	3.0	2.0	
APL-2 Brightening	9.1	308	6796	1	14.5	3.0	2.0	
Acid Recovery System	10.5	371	5460	1	13.9	3.0	15.0	
BDL : Below Detectable Limit								

M. Sanaulgeorge

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : AUGUST			
					Year : 2025			
1. Name of the Plant					SALEM STEEL PLANT			
2. Name of the shop					Steel Melting Shop /Cold Rolling Mill/ Hot Rolling Mill			
3. Process					Steel Melting ,Hot rolling, Annealing & Pickling , Cold Rolling			
4. Control equipment installed					Scrubbers, Cyclones, Bag Filters			
5. Sampling by					External Agencies.			
Stack No & Details	Exit Vel. (m/s, Avg)	Temp.K (Avg)	Flow Rate (NM3/Hr Avg)	No.O f Obs	Parameters Avg. (mg/nm3)			Remarks
					SPM	SO2	NOx	
APL-3 Mixed Acid	14.2	421	9837	1	13.8	3.0	13.0	
APL-3 Pre Pickling	9.3	308	2202	1	13.1	3.0	2.0	
HRM Reheating Furnace	9.3	441	33485	1	34.7	3.0	82.0	
APL-1Brightening	10.8	306	8032	1	13.9	3.0	2.0	
APL-2 Shot Blasting	10.6	305	7230	1	13.5	3.0	2.0	
APL-1 Electrolytic	10.7	307	5246	1	15.8	3.0	2.0	
Z Mill -1 Fume Exhaust	11.1	308	42042	1	17.3	3.0	2.0	
Boiler (FBC OLD)	11	320	26820	1	36.1	3.0	76.7	
AOD Stack	10.9	335	116244	1	41.3	3.0	2.0	
EAF LF Stack	10.6	349	393688	1	39.8	3.0	12.0	
Sendzimier Mill -3 Fume Exhaust	11.2	305	38662	1	14.1	3.0	2.0	
APL 2 Quench	12	516	45263	1	15.2	3.0	45.0	
APL-2 Brightening	10.5	309	7733	1	13.8	3.0	2.0	
APL-3 Lime Exhaust System	10.2	315	14103	1	12.6	3.0	2.0	
APL 2 Preheater	12.9	509	20532	1	16.3	3.0	43.5	
APL-2 Equalisation	11.2	429	3823	1	15.8	3.0	55.0	
BDL : Below Detectable Limit								

M. Chandrasekhar

STACK EMISSION REPORT								
					STL : B			
					Annexure : I			
					Month : SEPTEMBER			
					Year : 2025			
1. Name of the Plant				SALEM STEEL PLANT				
2. Name of the shop				Steel Melting Shop / Cold Rolling Mill/ Hot Rolling Mill				
3. Process				Steel Melting , Hot rolling, Annealing & Pickling , Cold Rolling				
4. Control equipment installed				Scrubbers, Cyclones, Bag Filters				
5. Sampling by				External Agencies.				
Stack No & Details	Exit Vel (m/s, Avg)	Temp.K (Avg)	Flow Rate (NM3/Hr Avg)	No.Of Obs	Parameters Avg. (mg/nm3)			Remarks
					SPM	SO2	NOx	
APL-3 Mixed Acid	13.8	308	13256	1	25.7	3.0	20.0	
APL-3 Quench Section 1	8.3	320	86913	1	13.5	3.0	2.0	
HRM Reheating Furnace	10.89	443	39567	1	36.9	3.0	89.3	
APL-1 Brightening	10.18	307	7649	1	15.3	3.0	2.0	
APL-3 Shot Blasting	9.53	308	103680	1	23.7	3.0	2.0	
APL-1 Electrolytic	10.21	309	5603	1	14.9	3.0	2.0	
Z Mill -1 Fume Exhaust	10.81	308	41504	1	15.6	3.0	2.0	
Boiler (FBC OLD)	11.81	393	26305	1	31.7	3.0	86.5	
Z Mill -2 Fume Exhaust	10.95	309	41905	1	14.5	3.0	2.0	
APL-2 Electrolytic	9.6	309	25513	1	14.7	3.0	2.0	
APL-2 Shot Blasting	10.21	307	6930	1	28.7	3.0	2.0	
APL-3 pre pickling	9.53	308	2287	1	23.7	3	2.0	
APL-2 Brightening	9.31	308	6973	1	13.8	3.0	2.0	
BDL : Below Detectable Limit								

M. Sankar

STACK MONITORING - STATISTICAL ANALYSIS (APR'25 TO SEP'26)											
SI No	Name of stack Parameters	SPM (mg/Nm3)			SO ₂ (mg/Nm3)			NOx (mg/Nm3)			
		Min	Max	Average	Min	Max	Average	Min	Max	Average	
1	EAF & LF stack	38.30	41.50	39.14	3.0	3.0	3.0	2.0	19.0	11.80	
2	AOD stack (srms)	37.20	41.30	39.70	3.0	3.0	3.0	2.0	2.00	2.00	
3	Re-Heating furnace-HRM	33.70	38.40	36.47	3.0	3.0	3.0	10.6	89.3	48.56	
4	APL-3 Shot Blasting	23.70	32.30	28.00	3.0	3.0	3.0	2.0	2.00	2.00	
5	APL-3 Prepickling	12.90	15.30	13.73	3.0	3.0	3.0	2.0	2.00	2.00	
6	APL-3 Mixed Acid	13.60	25.70	16.23	3.0	3.0	3.0	2.0	13.00	5.60	
7	APL-2 Shot Blasting	13.20	28.70	15.82	3.0	3.0	3.0	2.0	2.00	2.00	
8	APL-1 Electrolytic	13.60	15.80	14.53	3.0	3.0	3.0	2.0	2.00	2.00	
9	APL-1 Brightening	13.40	15.30	13.96	3.0	3.0	3.0	2.0	2.00	2.00	
10	Mill-I Fume Exhaust	12.80	17.30	14.72	3.0	3.0	3.0	2.0	2.00	2.00	
11	Mill-II Fume Exhaust	13.20	15.90	14.60	3.0	3.0	3.0	2.0	2.00	2.00	
12	FBC Boiler -II	23.10	36.10	31.10	3.0	3.0	3.0	12.2	86.50	55.16	
13	APL- II Brightening	13.10	13.80	13.65	3.0	3.0	3.0	2.0	2.00	2.00	
14	APL- II Electrolytic	13.80	15.80	14.62	3.0	3.0	3.0	2.0	2.00	2.00	

M. Chandra Sekar

AMBIENT AIR QUALITY REPORT									
				STL : B					
				Annexure : II					
				Month : APRIL					
				Year : 2025					
1. Name of the Plant				SALEM STEEL PLANT					
2. Sampling by				External Agency					
S.No.	Location	Type of	Date of	No.Of	Parameters Avg. (micro gm/Nm3)				Remarks
		Sample	Sampling	Obser's	PM-2.5	PM-10	SO2	NOx	
		Cont / Int		Norm	60	100	80	80	
1.	Works Office	Cont	08.04.2025	1	26.8	57.3	9.9	20.3	
2.	IFFS	Cont	08.04.2025	1	28.3	58.8	10.6	22.5	
3.	Makeup Water Pumphouse	Cont	08.04.2025	1	27.6	59.3	9.5	21.8	
4.	Stainless Surabi	Cont	07.04.2025	1	28.6	59.1	10.3	21.8	
5.	Naickenpatty	Cont	10.04.2025	1	27.8	58.6	10.3	22.1	
6.	Ganapathi Nagar	Cont	08.04.2025	1	27.6	58.1	9.8	21.5	
7.	Thoppukadu	Cont	09.04.2025	1	26.5	57.8	10.1	20.8	
8.	Thoppur	Cont	07.04.2025	1	27.3	58.1	9.7	21.4	
9.	SSP Main Hospital	Cont	07.04.2025	1	28.1	58.6	9.4	21.7	
10.	Near Medical College	Cont	07.04.2025	1	27.6	58.3	9.6	22.3	
BDL : Below Detectable Limit									

M. Leavel

AMBIENT AIR QUALITY REPORT

STL : B
Annexure : II
Month : MAY
Year : 2025

1. Name of the Plant SALEM STEEL PLANT
2. Sampling by External Agency

S.No.	Location	Type of Sample	Date of Sampling	No. of Obser's	Parameters Avg. (micro gm/Nm3)				Remarks
		Cont / Int		Norm	PM-2.5	PM-10	SO2	NOx	
					60	100	80	80	
1.	Works Office	Cont	06.05.2025	1	27.1	57.3	9.2	19.6	
2.	IFFS	Cont	06.05.2025	1	28.1	58.4	10.6	22.3	
3.	Makeup Water Pumphouse	Cont	06.05.2025	1	27.8	58.1	10.3	21.8	
4.	Stainless Surabi	Cont	05.05.2025	1	28.6	59.2	10.2	22.5	
5.	Naickenpatty	Cont	05.05.2025	1	26.8	57.6	9.7	20.8	
6.	Ganapathi Nagar	Cont	07.05.2025	1	27.5	58.1	9.8	21.4	
7.	Thoppukadu	Cont	08.05.2025	1	28.6	58.8	10.1	22.2	
8.	Thoppur	Cont	05.05.2025	1	27.6	58.1	9.9	21.9	
9.	SSP Main Hospital	Cont	05.05.2025	1	27.5	57.9	9.6	20.1	
10.	Near Medical College	Cont	06.05.2025	1	27.8	58.4	10.4	21.7	

BDL : Below Detectable Limit

M. Sankar

AMBIENT AIR QUALITY REPORT								
					STL : B			
					Annexure : II			
					Month : JUNE			
					Year : 2025			
1. Name of the Plant				SALEM STEEL PLANT				
2. Sampling by				External Agency				
S.No.	Location	Type of Sample	Date of Sampling	No.Of Obser's	Parameters Avg. (micro gm/Nm3)			Remarks
		Cont / Int		Norm	PM-2.5	PM-10	SO2	NOx
					60	100	80	80
1.	Works Office	Cont	05.06.2025	1	27.8	58.6	10.3	22.1
2.	IFFS	Cont	05.06.2025	1	27.9	58.5	10.2	22.7
3.	Makeup Water Pumphouse	Cont	05.06.2025	1	28.6	59.2	10.5	22.8
4.	Stainless Surabi	Cont	06.06.2025	1	27.8	58.4	10.3	21.7
5.	Naickenpatty	Cont	04.06.2025	1	27.8	58.6	10.4	21.3
6.	Ganapathi Nagar	Cont	04.06.2025	1	27.9	58.1	9.7	19.5
7.	Thoppukadu	Cont	04.06.2025	1	27.2	57.6	9.5	19.3
8.	Thoppur	Cont	04.06.2025	1	28.3	58.6	10.1	20.8
9.	SSP Main Hospital	Cont	05.06.2025	1	26.8	57.6	10.0	19.7
10.	Near Medical College	Cont	07.06.2025	1	27.4	58.2	9.8	22.3
BDL : Below Detectable Limit								

M. Leavel

AMBIENT AIR QUALITY REPORT									
					STL : B				
					Annexure : II				
					Month : JULY				
					Year : 2025				
1. Name of the Plant				SALEM STEEL PLANT					
2. Sampling by				External Agency					
S.No.	Location	Type of	Date of	No.Of	Parameters Avg. (micro gm/Nm3)				Remarks
		Sample	Sampling	Obser's	PM-2.5	PM-10	SO2	NOx	
		Cont / Int		Norm	60	100	80	80	
1.	Works Office	Cont	08.07.2025	1	27.2	57.5	9.7	20.8	
2.	IFFS	Cont	08.07.2025	1	27.4	58.1	10.1	20.3	
3.	Makeup Water Pumphouse	Cont	08.07.2025	1	26.8	57.3	9.8	19.5	
4.	Stainless Surabi	Cont	07.07.2025	1	27.5	57.9	9.7	19.9	
5.	Naickenpatty	Cont	08.07.2025	1	27.8	58.3	9.9	21.1	
6.	Ganapathi Nagar	Cont	10.07.2025	1	27.9	58.8	10.3	21.4	
7.	Thoppukadu	Cont	09.07.2025	1	27.3	58.5	9.7	21.1	
8.	Thoppur	Cont	07.07.2025	1	28.3	58.4	9.8	20.6	
9.	SSP Main Hospital	Cont	07.07.2025	1	26.8	57.3	9.6	19.8	
10.	Near Medical College	Cont	07.07.2025	1	27.3	58.9	10.1	21.4	
BDL : Below Detectable Limit									

M. Chandrasekhar

AMBIENT AIR QUALITY REPORT

STL : B
Annexure : II
Month : AUGUST
Year : 2025

1. Name of the Plant SALEM STEEL PLANT
2. Sampling by External Agency

Io. Location	Type of	Date of	No.Of	Parameters Avg. (micro gm/Nm3)				Remarks
	Sample	Sampling	Obser's	PM-2.5	PM-10	SO2	NOx	
	Cont / Int		Norm	60	100	80	80	
1.Works Office	Cont	12.08.2025	1	27.8	59.2	10.4	21.3	
2.IFFS	Cont	12.08.2025	1	29.6	60.9	10.2	19.7	
3.Makeup Water Pumphouse	Cont	12.08.2025	1	26.9	57.5	9.6	19.3	
4.Stainless Surabi	Cont	11.08.2025	1	27.0	59.3	9.6	19.2	
5.Naickenpatty	Cont	14.08.2025	1	26.5	58.3	9.7	20.6	
6.Ganapathi Nagar	Cont	12.08.2025	1	27.8	59.1	10.3	20.6	
7.Thoppukadu	Cont	13.08.2025	1	28.9	60.3	9.5	21.7	
8.Thoppur	Cont	11.08.2025	1	27.9	58.5	9.9	21.3	
9.SSP Main Hospital	Cont	11.08.2025	1	28.8	59.6	10.3	22.4	
Near Medical College	Cont	11.08.2025	1	29.7	61.3	10.6	22.9	

BDL : Below Detectable Limit

M. Ganapathy

AMBIENT AIR QUALITY REPORT

STL : B
Annexure : II
Month : SEPTEMBER
Year : 2025

1. Name of the Plant : SALEM STEEL PLANT
2. Sampling by : External Agency

No.	Location	Type of Sample	Date of Sampling	No. Of Observer's	Parameters Avg. (micro gm/Nm3)				Remarks
					PM-2.5	PM-10	SO2	NOx	
					60	100	80	80	
1.	Works Office	Cont	04.09.2025	1	27.1	58.4	9.8	19.5	
2.	IFFS	Cont	04.09.2025	1	26.3	57.5	9.6	19.0	
3.	Makeup Water Pumphouse	Cont	04.09.2025	1	27.8	59.0	10.1	20.2	
4.	Stainless Surabi	Cont	03.09.2025	1	27.3	58.9	20.6	20.6	
5.	Naickenpatty	Cont	05.09.2025	1	26.6	57.1	9.5	20.3	
6.	Ganapathi Nagar	Cont	06.09.2025	1	28.2	59.6	10.1	21.3	
7.	Thoppukadu	Cont	05.09.2025	1	28.9	60.3	9.5	21.7	
8.	Thoppur	Cont	03.09.2025	1	25.9	57.6	9.9	19.8	
9.	SSP Main Hospital	Cont	03.09.2025	1	29.6	60.9	10.3	21.4	
10.	Near Medical College	Cont	03.09.2025	1	26.9	58.1	10.3	21.4	

BDL : Below Detectable Limit

M. Sankar

Ambient Air Quality Monitoring -Statistical Analysis((APR'26 TO SEP'26)													
Location	PM2.5			PM10			SO2			NOX			
	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	Min	Max	Avg	
1 Works Office *	26.80	27.80	27.13	57.30	58.60	57.75	9.20	10.3	9.87	19.50	22.1	20.30	
2 IFFS	26.30	28.30	27.60	56.50	58.80	57.97	9.30	10.6	10.07	19.00	22.7	21.38	
3 Makeup water PH	25.70	28.60	27.38	57.10	59.30	58.33	9.50	10.5	9.97	18.90	22.8	20.83	
4 Stainless Surabhi	27.30	28.60	27.58	57.10	59.20	58.43	9.60	20.6	11.78	18.90	22.5	20.90	
5 Naickenpatti	26.60	27.80	27.43	57.10	58.60	58.05	9.50	10.4	9.90	20.30	22.1	21.15	
6 Ganapathi Nagar	26.80	28.20	27.65	57.50	59.60	58.37	9.7	11.1	10.13	19.50	21.5	21.07	
7 Thoppukadu	25.70	28.90	27.80	57.60	60.30	58.48	9.50	10.8	9.95	19.30	25.0	21.68	
8 Thoppur	25.70	28.30	27.18	57.00	58.60	57.97	9.20	10.1	9.77	19.60	21.9	20.73	
9 SSPmain hospital	26.80	29.60	27.60	56.70	60.90	58.17	9.40	10.3	9.83	19.70	21.7	20.63	
10 Near medical college	26.50	27.80	27.25	57.90	58.90	58.30	9.60	10.5	10.12	20.60	22.3	21.62	

M. Chandrasekar

EXTRACT OF TNPCB EFFLUENT QUALITY RESULTS : JULY -2025

Annexure- III									
S.No:	Parameter	Norm	#1 Final Effluent	Ground Water Quality: Parameter	#2	#3	#4	#5	#6
1	PH	5.5-9.0	6.43						
2	Total Suspended Solids	100	2.0	pH					
3	TDS	2100	204	Nitrate Nitrogen, mg/l	*Well water samples are collected once in 3 months as per TNPCB				
4	BOD	1000	2.0	Fluoride (as F) mg/l					
5	COD	10	4.0	Parameter					
6	Sulphates as SO ₄	30	6.6	pH					
7	Ammonical Nitrogen	250	1.0	Nitrate Nitrogen, mg/l	*Well water samples are collected once in 3 months as per TNPCB				
8	Sulphide as S	2	1.0	Fluoride (as F) mg/l					
9	Oil & Grease	3	<4.0						
10	Fluoride	50	0.1	Sample # 1 DFT Permeate water used for process					
11	Iron(Total)	0.1	0.05	Sample # 2 - Well water near New SLF					
12	Hexavalent Chromium	2	0.03	Sample # 3 -Well water from Township Nursery					
13	Total Chromium	1	0.003	Sample # 4,5 &6 - Well water from Down stream Wells					
14	Zinc	3	0.007	Sample # 7 -Well water from Kollapatti					
15	Nickel	2	0.003	Sample # 8 -Well water from MM Patti					
				Sample # 9 -Well water from Naickenpatti					
	BDL : Below Detectable Limit			Sample # 10 - Water from Bore well near Old SLF					

M. Narasimha Reddy

EXTRACT OF TNPCB EFFLUENT QUALITY RESULTS : AUG-2025									
Annexure- III									
S.No:	Parameter	Norm	#1 Final Effluent	Ground Water Quality: Parameter	#2	#3	#4	#5	#6
1	PH	5.5-9.0	7.81						
2	Total Suspended Solids	100	2.0	pH	*Well water samples are collected once in 3 months as per TNPCB				
3	TDS	2100	203	Nitrate Nitrogen, mg/l					
4	BOD	1000	2	Fluoride (as F) mg/l					
5	COD	10	4.1	Parameter	#7	#8	#9	#10	
6	Sulphates as SO4	30	6.8	pH	*Well water samples are collected once in 3 months as per TNPCB				
7	Ammonical Nitrogen	250	1.0	Nitrate Nitrogen, mg/l					
8	Sulphide as S	2	1.0	Fluoride (as F) mg/l					
9	Oil & Grease	3	<4.0						
10	Fluoride	50	0.1	Sample # 1 DFT Permeate water used for process					
11	Iron(Total)	0.1	0.05	Sample # 2 - Well water near New SLF					
12	Hexavalent Chromium	2	0.03	Sample # 3 - Well water from Township Nursery					
13	Total Chromium	1	0.003	Sample # 4,5 & 6 - Well water from Down stream Wells					
14	Zinc	3	0.026	Sample # 7 - Well water from Kollapatti					
15	Nickel	2	0.003	Sample # 8 - Well water from MM Patti					
				Sample # 9 - Well water from Naickenpatti					
	BDL : Below Detectable Limit			Sample # 10 - Water from Bore well near Old SLF					

M. V. S. S. S.

EXTRACT OF TNPCB EFFLUENT QUALITY RESULTS : SEP -2025									
Annexure- III									
S.No:	Parameter	Norm TNPCB	#1 Final Effluent	Ground Water Quality: Parameter	#2	#3	#4	#5	#6
1	PH	5.5-9.0	6.98						
2	Total Suspended Solids	100	2.0	pH	*Well water samples are collected once in 3 months as per TNPCB				
3	TDS	2100	352	Nitrate Nitrogen, mg/l					
4	BOD	1000	2	Fluoride (as F) mg/l					
5	COD	10	4.0	Parameter	#7	#8	#9	#10	
6	Sulphates as SO4	30	8.1	pH	*Well water samples are collected once in 3 months as per TNPCB				
7	Ammonical Nitrogen	250	1	Nitrate Nitrogen, mg/l					
8	Sulphide as S	2	1	Fluoride (as F) mg/l					
9	Oil & Grease	3	<4.0						
10	Fluoride	50	0.1	Sample # 1 DFT Permeate water used for process					
11	Iron(Total)	0.1	0.05	Sample # 2 - Well water near New SLF					
12	Hexavalent Chromium	2	0.03	Sample # 3 -Well water from Township Nursery					
13	Total Chromium	1	0.003	Sample # 4,5 &6 - Well water from Down stream Wells					
14	Zinc	3	0.007	Sample # 7 -Well water from Kollapatti					
15	Nickel	2	0.003	Sample # 8 -Well water from MM Patti					
				Sample # 9 -Well water from Naickenpatti					
	BDL : Below Detectable Limit			Sample # 10 - Water from Bore well near Old SLF					

W. Sundar

TNPCB ROA of Final Effluent (DFT Outlet) -Statistical Analysis
Final Effluent

S.No:	Parameter	TNPCB Norm	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	MIN	MAX
1	PH	5.5-9.0				6.43	7.81	6.98	6.43	7.81
2	Total Suspended Solids	100				2	2	2	2	2
3	TDS	2100				204	203	352	203	352
4	BOD	1000				2	2	2	2	2
5	COD	10				4	4.1	4	4	4.1
6	Sulphates as SO4	30				6.6	6.8	8.1	6.6	8.1
7	Ammonical Nitrogen	250				1	1	1	1	1
8	Sulphide as S	2				1	1	1	1	1
9	Oil & Grease	3				0.4	0.4	0.4	0.4	0.4
10	Fluoride	50				0.1	0.1	0.1	0.1	0.1
11	Iron(Total)	0.1				0.05	0.05	0.05	0.05	0.05
12	Hexavalent Chromium	2				0.03	0.03	0.03	0.03	0.03
13	Total Chromium	1				0.003	0.003	0.003	0.003	0.003
14	Zinc	3				0.007	0.026	0.007	0.007	0.026
15	Nickel	2				0.003	0.003	0.003	0.003	0.003

Results from TNPCB yet to be received

M. Chandrasekar

HRM EFFLUENT QUALITY												
ANNEXURE-IV												
S.N	Parameter	TNPCB	APR25	MAY25	JUN25	JULY25	AUG25	SEP25	Min	Max	Avg	
		Norm										
1.	pH	5.5-9.0	8.2	8.0	8.1	8.0	7.8	7.9	7.8	8.2	8.0	
2.	TSS, mg/l	100	15	20	10	15	20	20	10	20	16.6	
3.	TDS, mg/l	2100	530	300	220	230	360	350	220	530	331.6	
	Total Chromium, mg/l	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
4.	Nickel, mg/l	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	
5.												
BDL - Below Detectable Limit												

M. Chandrasekhar

Annexure – V

AFFORESTATION

Total Plant Area		Total Area Available for Plantation		Total No. of trees	
Inside plant	Outside plant	Inside plant	Outside plant	Inside plant	Outside plant
1220.27 hectares	324.5 hectares (Township)	Total area available for plantation = 277.67 hectares		Total no. of trees planted since 1989 = 356142 (225.436 hectares)	

Total area acquired by the Salem Steel Plant = 1544.77 hectares

Area covered by buildings, roads & railway lines = 267.10 hectares

Area covered by natural vegetation = 600.00 hectares

Area covered by saline soil or soft rock where trees cannot be grown = 400.00 hectares

Total area available for plantation = 277.67 hectares

No. of trees planted during 1997-98 = 1000

No. of trees planted during 1998-99 = 1000

No. of trees planted during 1999-00 = 500

No. of trees planted during 2000-01 = 500

No. of trees planted during 2001-02 = 500

No. of trees planted during 2002-03 = 500

No. of trees planted during 2003-04 = 200

No. of trees planted during 2004-05 = 20

No. of trees planted during 2005-06 = 11

No. of trees planted during 2006-07 = 1189

No. of trees planted during 2007-08 = 16

No. of trees planted during 2008-09 = 200

No. of trees planted during 2009-10 = 125

No. of trees planted during 2010-11 = 1030

No. of trees planted during 2011-12 = 670

No. of trees planted during 2012-13 = 503

No. of trees planted during 2013-14 = 1034

No. of trees planted during 2014-15 = 500

No. of trees planted during 2015-16 = 200

No. of trees planted during 2016-17 = 500

No. of trees planted during 2017-18 = 7645

No. of trees planted during 2018-19 = 1019

No. of trees planted during 2019-20 = 1065

No. of trees planted during 2020-21 = 1010

No. of trees planted during 2021-22 = 1050

No. of trees planted during 2022-23 = 1011

No. of trees planted during 2023-24 = 1004

No. of trees planted during 2024-25 = 1005

No. of trees planted during Apr25-Sep-25 = 316

Species of trees planted:

C Siamia, Subabul, Silver oak, Albizzia, Pungan, B. Babul, Neem, Silk cotton, Rain tree, A. Holosericea, Tamarind, Parambai Teak, Magohany, pungai etc.

M. Canale

AFFORESTATION

Total area acquired by the Salem Steel Plant	= 1544.77 hectares
Area covered by buildings, roads & railway lines	= 267.10 hectares
Area covered by natural vegetation	= 600.00 hectares
Area covered by saline soil or soft rock where trees cannot be grown	= 400.00 hectares
	1267.10 hectares
Total area available for plantation hectares	= 1544.77-1267.10
	= 277.67 hectares
Total Green belt developed area since 1989	= 225.436 hectares
Total no. of trees planted since 1989	= 356142 nos.

$$\begin{aligned}
 &\% \text{ of Green belt developed area} = \frac{\text{Green belt developed area}}{\text{Total Area available for Plantation}} \\
 &= \frac{224.201 \text{ hectares}}{277.67 \text{ hectares}} \\
 &= 81.18 \%
 \end{aligned}$$

M. Ganesan