



CONSENT ORDER FOR ESTABLISHMENT

Order No. 391 /APPCB/CFE/RO-TPT/HO/2005

Dt: 21 .07.2016.

Sub: APPCB – CFE – **M/s. Srikalahasthi Pipes Ltd (formerly M/s. Lanco Industries Limited), located at Rachagunneri (V), Srikalahasthi (M), Chittoor District** – Consent for Establishment (CFE) of the Board for **expansion** under Sec.25 of Water (P & C of P) Act, 1974 and Under Sec.21 of Air (P&C of P) Act, 1981 – Issued – Reg.

Ref: 1) EC order dt. 11.01.2013.
2) Industry's CFE application received through Single Desk System on 27.06.2016.
3) R.O's inspection report dt. 04.07.2016.
4) CFE Committee meeting held on 15.07.2016.
5) Industry's mails dt. 16.07.2016 & 20.07.2016.

1. In the reference 2nd cited, an application was submitted to the Board seeking Consent for Establishment (CFE) for **expansion** to produce the following products with installed capacities as mentioned below, with an additional project cost of Rs. 600.0 Crores.

Sl. No.	Name of the Products and By-products	Permitted capacity as per EC Order Dt:25.07.2008	Permitted capacity as per EC Order Dt:11.01.2013	Permitted capacity as per CFE order Dt:01.07.2008	Proposed Expansion	Total After Expansion
	Products					
1	DI Pipes	4,00,000 TPA		4,00,000 TPA	--	4,00,000 TPA
2	Pig Iron	5,25,000 TPA		5,25,000 TPA	--	5,25,000 TPA
3	LAM Coke	4,62,000 TPA		4,62,000 TPA	--	4,62,000 TPA
4	Captive Power Generation	40.5 MW	WHRB – 8 MW FBC – 4 MW	40.5 MW	WHRB – 8 MW and FBC-4 MW	52.5 MW
5	Slag Cement	3,90,000 TPA	3,90,000 TPA	3,90,000 TPA	--	3,90,000 TPA
6	Sponge Iron (4 x 100 TPD)	--	1,30,000 TPA	--	1,30,000 TPA	1,30,000 TPA
7	Steel Products	--	1,25,000 TPA	--	1,25,000 TPA	1,25,000 TPA
8	Ferro Alloys (4x9 MVA)	--	Fe-SI – 25,000 TPA Si-Mn-60,000 TPA Fe-Mn- 75,000 TPA	--	Fe-SI – 25,000 TPA Si-Mn-60,000 TPA Fe-Mn-75,000 TPA	Fe-SI – 25,000 TPA Si-Mn-60,000 TPA Fe-Mn-75,000 TPA

2. As per the application, the above activity is to be located within the existing premises at Rachagunneri (V), Srikalahasthi (M), Chittoor District in a total area of 230.85 acres (Existing: 183.85 acres + Proposed 47.00 acres).
3. The above site was inspected by the Environmental Engineer and Asst. Environmental Engineer, Regional Office, Tirupati, A.P Pollution Control Board on 28.06.2016 and observed that the site is surrounded by

North : Agricultural Lands.
South : Railwaytrack followed by M/s. Puspit Steels.
East : Existing M/s.Srikalahasthi Pipes Ltd (formerly: M/s. Lanco Industries Limited), (Cement, Pig Iron, Spun Pipe, Coke oven & Captive Power Plant Divisions) and STP Plant.
West : Agricultural Lands

4. The Board, after careful scrutiny of the application, verification report of Regional Officer and recommendations of the CFE Committee, hereby issues **CONSENT FOR ESTABLISHMENT FOR EXPANSION** to your activity Under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**

5. This Consent order issued is subject to the conditions mentioned in the Annexure.
6. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
7. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure

MEMBER SECRETARY

To

**M/s. Srikalahasthi Pipes Ltd.,
(formerly M/s. Lanco Industries Limited),
Rachagunneri (V), Srikalahasthi (M),
Chittoor District.**

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Copy to: 1. The JCEE, Z.O., Kurnool for information and necessary action.
2. The EE, R.O., Tirupati for information and necessary action.

SCHEDULE – A

1. Separate energy meters shall be provided for Effluent Treatment Plant (ETP) and Air pollution Control equipments to record energy consumed.
2. The proponent shall obtain Consents for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the activity.
3. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions by the Board.
4. Compensation is to be paid for any environmental damage caused by it, as fixed by the Collector and District Magistrate as civil liability.
5. The rules and regulations notified by Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.

SCHEDULE – B

Water:

1. The source of water is Tirupati Municipality (12885 KLD sewage) & Partly Ground water (165 KLD) and the maximum permitted water consumption is 13,050 KLD.

Sl. No	Purpose	as per CFE dated 01.07.2008	Proposed Expansion	Total After Expansion
1	Make up water DI Pipe Division	1475 KLD	--	1475 KLD
2	Make up water Blast Furnace & Sinter	3900 KLD	--	3900 KLD
3	Make up water for Coke oven Plant	470 KLD	--	470 KLD
4	Make up water for Cement Plant	175 KLD	--	175 KLD
5	Make up water for DRI Plant	--	240 KLD	240 KLD
6	Make up water for SMS & Rolling Mill	--	350 KLD	350 KLD
7	Make up water for Ferro Alloy plant	--	120 KLD	120 KLD
8	Power Plant	--	--	
	Make up water for Cooling Tower	4500 KLD	1100	5600 KLD
	Make up water for Boilers	261 KLD	80 KLD	341 KLD
	RO Plant	94 KLD	20 KLD	114 KLD
9	Domestic (Plant & Town ship)	155 KLD	10 KLD	165 KLD
10	Gardening	100 KLD	Nil	100 KLD
	Total	11,130 KLD	1920 KLD	13,050 KLD

2. The Effluent Treatment Plant (ETP) shall be constructed and commissioned and Air Pollution control equipment shall be installed along with the commissioning of the activity. All the units of the ETP shall be impervious to prevent ground water pollution.
3. The effluents shall be treated to the on land for irrigation standards, stipulated under Environment (Protection) Rules, 1986, notified and published by Ministry of Environment and Forests, Government of India as specified in Schedule VI vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof, and additional standards / conditions stipulated by APPCB.

4. The maximum Waste Water Generation (KLD) shall not exceed the following:

Sl. No	Source	As per CFE dated 01.07.2008	Proposed Expansion	Total After Expansion
1	DI Pipe Division	155 KLD	--	155 KLD
2	Pig Iron	600 KLD	--	600 KLD
3	Cement Plant (Waste Water)	--	--	--
4	Coke Oven Plant (Waste Water)	--	--	--
5	Power Plant			
	Cooling Tower Blow Down	703 KLD	200 KLD	903 KLD
	Boiler low Downs	57 KLD	18 KLD	75 KLD
	RO Plant	94 KLD	20 KLD	114 KLD
6	Domestic	124 KLD	8 KLD	132 KLD
	Total	1733 KLD	246 KLD	1979 KLD

Source of effluent	Treatment	Mode of final disposal
Spun Pipe Division and Pig Iron Division	Bar Screen Chamber, Oil Skimmer, Equalization Tank, Flocculation Tank, Clarifier, Sludge Drying Beds	Used for slag granulation and for sprinkling on roads and raw material yard.
Captive power plant	Neutralization	Reused for coke quenching, sprinkling on roads, Stock Piles etc.,
Domestic (Industry & Tirupathi Municipality)	Sewage Treatment plant	After treatment in Sewage Treatment Plant (STP), the treated water shall be used for Gardening / other purposes in the plant.

5. Separate meters with necessary pipe-line shall be provided for assessing the quantity of water used for each of the purposes mentioned below.

- a) Industrial cooling, boiler feed.
- b) Domestic purposes.
- c) Processing, whereby water gets polluted and pollutants are easily bio- degradable.
- d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable.

6. Closed circuit cooling system shall be adopted to conserve water.

7. All the effluent shall be treated and re-used for various purposes in the plant i.e., ash handling, dust suppression, and green belt development. No effluent shall be discharged and 'Zero' discharge shall be adopted.

8. The industry shall submit a copy of the amendment to EC order exempting the industry from installation of MEE before applying for CFO.

Air:

9. The proponent shall comply with the following for controlling air pollution (Existing plant):

Sl. No	Details of Stack Attached to:	Stack Height (m)	Permitted APC Equipment
i.	Rotary Sinter Plant 1 x 30m ²	50 M Individual stacks –2 Nos	ESP's
ii.	Mini Blast Furnace 1 x 350 m ³ & BF gas fired boiler- 1 x 24 TPH	30 M Individual stacks –2 Nos	Dust catcher followed by ventury scrubber
iii.	Flare stack in Blast furnace section	30 M Individual stack –1 No	
iv.	Rotary Kiln / Raw mill -1 No. (Cement unit) 1000 TPD	35 M individual stack – 1 No	Bag filter
v.	Cooler	35 M individual stack – 1 No	ESP
vi.	Coal Mill	30 M individual stack – 1 No	Bag filter
vii.	Cement Mill 1000 TPD	30 M Individual stack –1 No	Bag filter
viii.	Crusher	15 M Individual stack –1 No	Bag filter
ix.	Coke ovens 128 Nos Flue Gas	38 m individual stacks – 4 Nos	4 Nos Scrubbers
x.	CPP (WHRB) Boiler- 4 x 20 TPH	55 M Individual stacks –2 Nos	-
xi.	Induction furnaces 3 x 15 MT	30 M Individual stacks –3 Nos	Fume extraction system with bag filters
xii.	Mg Converter	30 M Individual stacks –2 Nos	Bag filter
xiii.	Oil fired Boilers-2 Nos (3 TPH each)	18 M Individual stacks –2 Nos	--
xiv.	Mould sand blasting -3 Nos	11 M Individual stacks –3 Nos	Bag filter
xv.	Socket cleaning-2 Nos	14 M Individual stacks –2 Nos	Bag filter
xvi.	Annealing furnaces – 2 Nos	35 M Individual stacks –2 Nos	--
xvii.	Zn coating – 2 Nos	30 M Individual stacks –2 Nos	Bag filter
xviii.	Sand, Cement hopper	15 M Individual stacks –2 Nos	Bag filter
xix.	Bitumen coating – 2 Nos	19 M Individual stacks –2 Nos	--

S. No	Details of the source of Air pollution	Details of Stack
	D G sets	12 m height stack from roof
1	750 KVA – 1 No	
2	1250 KVA-2 Nos	Individual 13 m height stacks-2 Nos from roof

Proposed:

Sl. No	Details of Stack	Stack 1	Stack 2	Stack-3	Stack-4	Stack – 5
a)	Attached to:	Rotary Kiln (DRI Kiln)	Electric Arc Furnace	Ladle Furnace (Reheating Furnace)	Submerged Arc Furnace	FBC Boiler
b)	Capacity	4 x 100 TPD	1 x 20 Ton	1 x 20 Ton	4 x 9 MVA	1 x 20 TPH
c)	Name of the Fuel :	Coal	Electricity	Electricity	Electricity	--
d)	Stack height above ground (m.)	60 m	30 m	41 m	30 m	38 m
e)	Air Pollution Control Equipment:	ESP	Bag filter	Bag filter	Bag filter	ESP
f)	Conc. Of particulate matter mg/Nm ³	--	--	--	--	--

10. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
11. The generators shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.
12. The ESP shall be provided to DRI kiln and boiler to control particulate emission with in 50mg/Nm³.
13. The Char from the DRI plant shall be utilized in the boiler of power plant and no Char shall be disposed anywhere else.
14. Mechanized Dust suppression system shall be provided in the coal and Iron ore stock yards to sprinkle water periodically, to suppress dust.

Solid Waste:

15. The proponent shall comply with the following:

S. No	Source of solid waste	Existing	Total After Expn	Method of disposal
1	Furnace Waste (CI/DI Scrap)	200.0 TPD	200.0 TPD	Sold to authorized dealers
2	Burnt core sand	8.6 TPD	8.6 TPD	Reclaiming low lying areas in industry premises
3	Waste sand cement slurry	16.0 TPD	16.0 TPD	Reclaiming low lying areas in industry premises
4	Slag	7.5 TPD	7.5 TPD	Reclaiming low lying areas in industry premises
5	Zinc residue	0.22 TPD	0.22 TPD	Used for road laying
6	Mg converter waste	0.07 TPD	0.07 TPD	Sold to authorized dealers/Re used in sinter plant
7	Sinter return from	460.0 TPD	460.0 TPD	Used in sinter plant

	sinter plant			
8	By product (Slag)	490.0 TPD	490.0 TPD	Used in Cement plant
9	Sludge	30.0 TPD	30.0 TPD	Used to produce slag cement
10	Dust from settling chamber	70.5 TPD	70.5 TPD	Filling in low lying areas in industry premises
11	Dolo Char	--	39,000 TPA	Completely utilized in FBC Boiler as Fuel
12	Accretion Slag	--	1,170 TPA	Used in Road Construction
13	Wet Scraper Sludge	--	5,980 TPA	Disposed to Brick Manufacturers
14	Ash (DRI)	--	39,000 TPA	Disposed to Cement Plants/ Brick Manufacturers
15	Ash (Power Plant)	--	30,713 TPA	Disposed to Cement Plants/ Brick Manufacturers
16	Slag From SMS	--	13,160 TPA	Used in Road construction.
17	Mill Scales	--	6,250 TPA	Reused in SMS
18	Ferro Silicon slag	--	750 TPA	Shall be used in proposed Induction Furnace.
19	Silico manganese slag	--	45,000 TPA	Shall be utilized in Road construction.
20	Ferro manganese slag	--	60,000 TPA	Shall be used in manufacture of Silico Manganese

16. The following rules and regulations notified by the MOE&F, GOI shall be implemented.

- a) Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
- b) Manufacture, storage and import of hazardous chemicals Rules, 1989.
- c) Rules for manufacture, use, import, export and storage of Hazardous micro-organisms/genetically engineered organisms or cells, 1989.

17. The fly ash generated shall be used in the Cement plant and remaining fly ash shall be disposed to other cement plants. The bottom ash shall be disposed to Ash pond / brick manufacturers as committed vide mail dt.20.07.2016.

Other Conditions:

18. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
19. Concealing the factual data or submission of false information/ fabricated data and failure to comply with any of the conditions mentioned in this order and attract action under the provisions of relevant pollution control Acts.
20. Notwithstanding anything contained in this conditional consent, the Board hereby reserves its right and power under Sec.27(2) of Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to review any or all the conditions imposed herein and to make such alternation as deemed fit and stipulate any additional conditions or revoke the order in the interest of environment protection.

21. Any person aggrieved with this order may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules, 1982, to the Appellate Authority constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

MEMBER SECRETARY

To

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