



**Consent For Operation
(CFO-Air,Water)**

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

Consent No. AW-332167
Valid upto: 03/06/2027

Industry Colour: RED Industry Scale: LARGE

Application Type: CFO-
Renewal

(This document contains 7 pages including annexure & excluding additional

Combined Consent Order No. AW-332167 **PCB ID:** 10422 **Date:** 08/07/2022

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act , 1974 and emission under the Air (Prevention and Control of Pollution) Act , 1981

- Ref: 1. Application filed by the applicant/organization on 04/06/2022
2. Inspection of the Industry/organization/by RO, on 08/06/2022
3. Proceedings of the ECM dated , held on

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Slr Metaliks Ltd
Address: 632,633,634,635,636,641,642,643/B,643/C,646/A & others, Narayanadevarakere, Lokappannahola Village, Hagaribommanahalli Tq, Vijayanagara District
Industrial Area: Not In I.A, Narayanadevarakere,
Taluk: H.B.Halli, District: Bellary

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Boiler Feed	24.000	0.010	Water is used as boiler feed. The blowdown water is used for slag granulation process.
2	Cooling Water	1211.000	213.000	1211 KLD of Water is used as makeup water for cooling purposes in Blast Furnace, SMS and Rolling Mill. The blowdown from the process is used for slag granulation and for backwashing in SMS - GCP plant.
3	Domestic Purpose	49.000	40.000	Sewage generated from domestic activity shall be treated in 60 KLD STP and treated sewage shall be used for gardening.
4	Manufacturing Processes	880.000	174.000	Water is used for various processes in Mini BF, Sinter plant, CPP, SMS and rolling mill etc.,. The waste water generated from the process is reused in SGP, GCP and for dust suppression
5	Others	224.000	0.000	Water is used for green belt development.

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty	Unit
1	BF gas based captive power plant - 6 MW (1 x 40 TPH)	0.000	MegaWatt Hour/month
2	crushed mineral ore, stone, slag products -1,44,000 TPM	0.000	Metric Tonnes/month
3	pig iron - 2,00,000 TPA	0.000	Metric Tonnes/Annum
4	Pulversied coal 10 TPH (7000 TPM)	0.000	Metric Tonnes/month
5	rolling mill - rolled steel products - 3,20,000 TPA sed billets)	0.000	Metric Tonnes/Annum
6	sinter plant (1 x 33m2)- 3,31,000 TPA (granulated)	0.000	Metric Tonnes/Annum
7	SMS plant - Billets - 3,00,000 TPA	0.000	Metric Tonnes/month

This consent is valid for the period from 04/06/2022 **to** 03/06/2027



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To,
Slr Metaliks Ltd
Hagaribommanahalli Tq

COPY TO:

- The Environmental Officer, KSPCB, Regional Office Bellary for information and necessary action.
1. Master Register.
 2. Case file.

Consent Fee paid : Rs. 10000000

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.
- 2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.
- 2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.
- 3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I
- 3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.
4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.
5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.
6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.
7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:
8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.
2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.
3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.



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C.MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as Indicated in Annexure I & II.
2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.
2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

- * dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.
- * A "decibel" is a unit in which noise is measured.
- * "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- * Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUNDARY MOVEMENT) Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.



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7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should be made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.
10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions A 2(a),3(a),3(b), E(b),(c),(d) mentioned in the schedule are not applicable.

Additional Conditions:

This CFO is issued after prior approval of Chairman and MS for the production of Billets-3,00,000 TPA, crushed mineral ore, stone, slag products -1,44,000 TPM, Pig Iron-2,00,000 TPA, BF gas based power generation-6MW(1x40TPH), Pulverized coal-10 TPH(7,000 TPM), Rolled steel products-3,20,000 PTPA & Sinter Plant-(1x33m2)-3,31,000 TPA (granulated) for the period from 01.07.2022 to 30.06.2027 with conditions. The applicant shall comply as per the Annexures-I, IA, II & IIB attached herewith. 3) The applicant shall submit modified EC as committed in the Affidavit dtd:13.04.2022. 4) The applicant shall comply with the conditions mentioned at EC from MoEF, GOI, dtd:30.08.2010, 31.05.2015 & 09.03.2016. 5) The applicant shall ensure connecting the OCMS to CPCB/KSPCB server within 3 months. 6) Any non-compliances to the consent conditions, the consent will be withdrawn.

Chi m.N o.	Chimney attached to	Capacity/ KVA Rating	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	Furnace	Rolling mill reheating furnace flue gas chimney -2	45	PM, SO ₂ , NO _x , CO, NMHC	50, 0, 0, 1%, 0	---	N.A	At all times
2	D.G. Sets	250KVA	5	PM, SO ₂ , NO _x , CO, NMHC	0, 0, 0, 0, 0	DIE	AEC	At all times



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3	Vibratory Screen	Vibratory screen	0	PM,SO2,NOx,CO, NMHC	PM < 1200 ug/m3		DSS,HDC,W SP,WBW	At all times
4	Jaw Crusher -1	Jaw Crusher	0	PM,SO2,NOx,CO, NMHC	PM < 1200 ug/m3		DSS,HDC,W SP,WBW	At all times
5	Conveyor Belt	Conveyor Belt x 3no	0	PM,SO2,NOx,CO, NMHC	PM < 1200 ug/m3		HDC,WSP, WBW	At all times
6	Furnace	Rolling mill-Reheating furnace Flue gas chimney-1	45	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	F.G	N.A	At all times
7	Any Other	Finished Sinter Dedusting	30	PM,SO2,NOx,CO, NMHC	50,0,0,1%,0	---	FIL	At all times
8	Any Other	Sinter plant flux screening and Fuel Screening dedusting unit (Common Chimney)	30	PM,SO2,NOx,CO, NMHC	50,0,0,1%,0	---	FIL	At all times
9	Any Other	flare stack for Blast Furnace	45	PM,SO2,NOx,CO, NMHC	30,200,1500,1%,0	---	N.A	At all times
10	Any Other	Sinter plant Tail end exhaust-dedusting system	50	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	---	ESP	At all times
11	D.G. Sets	D G Set - 1X2000 KVA	30	PM,SO2,NOx,CO, NMHC	100,0,970,0,0	DIE	AEC	At all times
12	Furnace	Steel melt shop-LRF Chimney	30	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	F.G	FIL	At all times
13	Any Other	Pulverised Coal injection system	30	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	---	FIL	At all times
14	Any Other	Steel melt shop-Caster mchn. exhaust (duct)	30	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	---	DUS	At all times
15	Furnace	Steel melt shop EOF furnace chimney	51	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	F.O	FIL,SCR	At all times



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16	Any Other	Sinter plant Flux crushing and Fuel Crushing dedusting system (Common Chimney)	30	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	---	FIL	At all times
17	Any Other....	Sinter plant Head end exhaust dedusting system	50	PM,SO2,NOx,CO, NMHC	150,00,00,0,0	PM < 150 mg/Nm3	DUS,ESP	At all times
18	Furnace	Blast Furnace - 262m3	45	PM,SO2,NOx,CO, NMHC	30,200,150,0,0	COK	FIL,DUS	At all times
19	Boiler	power plant 6MW BF gas based	45	PM,SO2,NOx,CO, NMHC	50,0,0,0,0	F.G	N.A	At all times
20	D.G. Sets	1x1250K VA DG	30	PM,SO2,NOx,CO, NMHC	100,0,970,0,0	DIE	AEC	At all times

Note:

N.A : Not Applicable

AEC : Accoustic Enclosures

DSS,HD : Dust Suppressor
C,WSP,
WBW

DSS,HD : Dust Suppressor
C,WSP,
WBW

HDC,WS : Hood Cover
P,WBW

FIL : Bag Filter

N.A : Not Applicable

ESP : E.S.P

FIL : Bag Filter

DUS : Dust Collector

FIL,SCR : Bag Filter

DUS,ESP : Dust Collector

FIL,DUS : Bag Filter

N.A : Not Applicable

Note:

- The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
- The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection)Rules.
- There shall be no smell or odour nuisance from the industry.



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LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diameters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 (\text{Length} \times \text{Width})}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Signature Not Verified

Digitally signed by
Date: 2022.07.08 16:54:23
+05:30

Additional conditions to the XGN Consent order issued in respect of M/s. SLR Metaliks Ltd., Sy. No. 632, 633, 634, 635, 636, 641, 642, 643/B, 643/C, 646/A & Others Narayandevarakere, Lokappannahola Village, Hagaribommanahalli Taluk, Vijayanagara District.

ANNEXURE-I

This consent is granted for the production of following products;

Sl. No.	Production activity	Capacity
1	Billets	3,00,000 TPA
2	Crushed mineral ore, stone, slag products	1,44,000 TPM
3	Pig Iron	2,00,000 TPA
4	BF gas based power generation	6MW(1x40TPH)
5	Pulverized coal	10 TPH(7,000 TPM)
6	Rolled steel products	3,20,000 PTPA
7	Sinter Plant	(1x33m2)-3,31,000 TPA(granulated)

- 2) The applicant shall submit modified EC as committed in the Affidavit dtd:13.04.2022.
- 3) The applicant shall comply with the conditions mentioned at EC from MoEF, GOI, dtd:30.08.2010, 31.05.2015 & 09.03.2016.
- 4) The industry shall not store water in guard pond in TB dam leased area until renewal of agreement with TB Board. The applicant shall submit the copy of renewed agreement to the Board.
- 5) **The applicant shall not operate Coal based FBC Boiler-31 TPH without obtaining CFO from the Board.**
- 6) The applicant shall obtain Form-C from District Stone Crusher and Licensing Authority in case of producing stone aggregates.
- 7) **The applicant shall complete the connectivity of OCEMS to CPCB/KSPCB server within 3 months.**
- 8) **The applicant shall comply with remaining non-compliances observed during inspection on 28.03.2022.**
- 9) **Any non-compliance to the consent conditions, the consent will be withdrawn.**
- 10) The applicant shall submit half yearly consent compliance reports (April to September in the month of December and October to March in the month of June) to the Board.

Water Pollution Control:

- a) The sewage generated from the domestic activity shall be treated in in-house 60 KLD STP and treated sewage shall be utilized for maintenance of green belt and secondary purposes.

- b) The applicant shall ensure that treated sewage from outlet of STP shall confirm to the following standards:-

Sl. No.	Parameter	Limit	Frequency of monitoring
1	pH	6.5-9.0	Monthly
2	BOD, 3 days at 27°C (mg/l, Max)	<=20	
3	Suspended Solids (mg/l)	<=30	
4	Oil and Grease (mg/l)	<=10	

- c) The applicant shall ensure that there shall not be any discharge of either treated or untreated sewage/effluent into natural nala/storm water drains at any point of time.

09/02/22
SENIOR ENVIRONMENTAL OFFICER
MINES AND METALLURGICAL SECTION

ANNEXURE – IA
STANDARDS FOR SPONGE IRON UNITS
(NOTIFICATION NO.GSR 414(E), DATED 30.5.2008, W.E.F 30.5.2008)

A. Emission Standards*

(Rotary Kiln)	Particulate Matter	Fuel Type	Limiting value for concentration
		Coal	100 mg/NM ³
		Gas	50 mg/NM ³
	Carbon Monoxide (Vol./Vol.)	Coal/Gas	1%
	Stack Height** (Minimum)	Coal/Gas	30.0 m

Note:

* Emission shall be normalized at 12% CO₂ in stack emission.

** Stack height shall be calculated as $H=14.0Q^{0.3}$ where Q is emission of Sulphur Dioxide (SO₂) in Kg/Hr i.e.

SO ₂ (Kg/Hr)	Height (Metre)
Upto 12.68	30
12.69 - 33.08	40
33.09 - 69.06	50
69.07 - 127.80	60
127.81 - 213.63	70

(De-Dusting Unit)	Particulate Matter (mg/m ³)	Existing Unit	New Unit
		100	50

Note:

(i) Stack attached to de-dusting unit shall have minimum height of 30.0 metre.

(ii) If de-dusting unit is connected to After Burner Chamber (ABC), emission shall be emitted through common stack (minimum height 30.0 metre) having separate arrangements for emission monitoring for de-dusting unit.

Rotary Kiln/De-dusting Unit	B. Fugitive Emission Standards		
	Particulate matter ($\mu\text{g}/\text{m}^3$)	Existing Unit 3000	New Unit 2000

Note:

(i) The existing industry shall comply with a standard of 2000 $\mu\text{g}/\text{m}^3$ after one year from the date of Notification.

(ii) Fugitive emission shall be monitored at a distance 10.0 metre from the source of fugitive emission as per following:

Area	Monitoring Location
Raw material handling area	Wagon tippler, Screen area, Transfer points, Stock bin area.
Crusher area	Crushing plant, vibrating screen, transfer points.
Raw material feed area	Feeder area, Mixing area, Transfer points.
Cooler discharge area	Over size discharge area, Transfer points.
Product processing area	Intermediate stock bin area, Screening plant, Magnetic separation unit, Transfer points, Over size discharge area, Product separation area, Bagging area.
Other areas	As specified by State Pollution Control Board/Pollution Control Committee.

C. Effluent Standards

pH	5.5 - 9.0
Total Suspended Solids	100 mg/l
Oil & Grease	10 mg/l
Chemical Oxygen Demand	250 mg/l

Note:

(i) All efforts shall be made to reuse and re-circulate the water and to maintain "Zero discharge".

(ii) Stormwater drain shall be provided within the premises of the industry so as to avoid mixing with effluent.


 SENIOR ENVIRONMENTAL OFFICER
 MINES AND STONE CRUSHER





**ANNEXURE – IIB
NATIONAL AMBIENT AIR QUALITY STANDARDS**

Pollutant	Time Weighted Average	Concentration in Ambient Air		Method of Measurement
		Industrial, Residential, Rural & other Areas	Ecologically sensitive area (Notified by Central Government)	
Sulphur Dioxide (SO ₂)	Annual* 24 Hours**	50 µg/m ³ 80 µg/m ³	20 µg/m ³ 80 µg/m ³	- Improved West and Gacke method. - Ultraviolet fluorescence.
Nitrogen Dioxide (NO ₂)	Annual* 24 Hours**	40 µg/m ³ 80 µg/m ³	30 µg/m ³ 80 µg/m ³	- Modified Jacob & Hochheiser (Na-Arsenite) Method. - Chemiluminescence.
Particulate Matter (Size less than 10 µm) or PM ₁₀	Annual* 24 Hours**	60 µg/m ³ 100 µg/m ³	60 µg/m ³ 100 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.
Particulate Matter (Size less than 2.5 µm) or PM _{2.5}	Annual* 24 Hours**	40 µg/m ³ 60 µg/m ³	40 µg/m ³ 60 µg/m ³	- Gravimetric. - TOEM. - Beta attenuation.

* Annual Arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform interval.

** 24 hourly/8 hourly/1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

Note:

Whenever & wherever monitoring results on two consecutive days of monitoring exceeds the limits specified above for the respective category, it shall be considered adequate reason to institute regular or continuous monitoring and further investigation.


 SENIOR ENVIRONMENTAL OFFICER
 MINES AND STONE CRUSHER



