



# Rungta Mines Limited

[KARAKHENDRA STEEL PLANT]

MAIN ROAD, BARBIL - 758 035, DIST.- KENDUJHAR, ODISHA, INDIA

Phone : (06767) 278081, 275891, Telefax : +91-6767-275891

E-mail : sid.bbl@rungtamines.com

Ref.No. RML/KKSP-550/ 418 /18-19

Date : 20.03.2019

To,  
Ministry of Environment, Forests & Climate Change,  
Indira Paryavaran Bhawan,  
3rd Floor, Vayu wing,  
Aliganj, Jor Bagh Road,  
New Delhi 110 003

Kind Attn:- Director, Impact Assessment (Industry-1)

Sub. : Application under Clause 7(ii) of EIA notification 14.09.2006 for amendment (by addition of refining unit in the process) & expansion of SMS, Billets/Slab/Bloom Caster and TMT/ Flat/Round/Wire Rod/ Structural Mill production in proposed Karakhendra Steel Plant located at village Karakhendra, District Keonjhar, Odisha.

Dear Sir,

With reference to the subject cited above, we had been accorded Environmental Clearance vide letter no. J-11011/230/2016-IA.II(I) dated 15.01.2018 by Ministry of Environment Forest and Climate Change, Government of India for Integrated Steel Plant for following facilities:

## UNITS SANCTIONED IN EC LETTER DATED 15.01.2018

Sl.	Facilities	Production Capacity TPA	Present Status of implementation
1	Steel Melting Shop comprising: Induction Furnace (2X15T) with CCM (2 strand)	105,600	● 33 nos. foundation completed out of 36 nos. ● Order placed for IF ● Civil works for IF underway
	Billet / Bloom/ Slab caster	103,488	Order placed
2	TMT/ Flat/Round/Wire Rod/ Structural Mill	101,418	Order yet to be placed, quotations invited

Now it is proposed to have the following Amendment/Enhancement:

- Amendment by addition of further refining facility i.e. 1X20 T LRF to process 1,26,720 TPA in consonance with the proposed enhancement of 2X15 T IF
- Capacity enhancement of SMS, Billets/ bloom/ slab casters and Rolling mill for Flat/ Round/ Wire rod/ Structural as follows:

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## PRODUCTION AS PER EC & PROPOSED EXPANSION IN PRODUCTION

S. No.	Plant Facilities	Production as per EC dated 15.01.2018 TPA	Proposed Production, TPA	Total Production, TPA	Remarks
1.0	Steel Melting Shop comprising: Induction Furnace 2x15 T, LRF 1x20T (proposed in above amendment)	105,600	21,120	126,720	20%
2.0	Billets/ Bloom Caster/Slab Caster CCM (2 strand)	103,488	20,698	124,186	20%
3.0	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)	102,418	19,284	121702	20%

### Brief justification of capacity enhancement:

1. **Induction Furnace** :By using alumina based neutral lining (life-100 heats) in induction furnaces instead of the conventionally used silica based acidic lining (life- 20 heats) in Company's other plants, the downtime is reduced. Furthermore, 100 heat life of neutral lining can be further increased to 350 heats by hot patching. The longer life of lining will reduce downtime and increase availability of working hours by nearly 42% as follows:

Linin g	No. Of heats before relining	Tap to tap time	Total time available before relining	Downtime for relining after (d)	No. Of downtimes in 225 hrs	Extra heating time available in 225 hrs
(a)	(b)	(c)	(d)	(e)	(f)	(g)
Acidic	20	2.25 hrs	45 hrs	24 hrs	5	Nil
Neutra l	100	2.25 hrs	225 hrs	24 hrs	1	24 X (5-1) = 96 hours (42% extra)

Hence, increase of production by 20% is easily feasible by utilising the 42% extra working time available to operate the furnaces as per above. For safe operations of additional working hours, additional electricals, bush bars and panel shall be installed.

2. **Billets/ Bloom Caster/Slab Caster CCM (2 strand)** : Commensurate with the output from the induction furnace, Continuous Casting Machine (CCM) will operate for increased hours to cater to the higher output from IF-LRF. There will be no other change.

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3. **Rolling Mill** : The smallest rolling mills that are currently manufactured by suppliers are 40 TPH. This configuration can easily cater to the increased output from IF-LRF-CCM by increasing the number of operating hours from average 8 hrs/day to 9-10 hours/day. There will be no other change.

Thus, we are applying for environmental clearance for the above amendment and expansion in production under clause 7(ii) of the EIA Notification 2006 for SMS, Billets /slab/bloom caster and Rolling mill. We will take the following additional steps for minimization of impact:

- (1) Installation of the latest & state-of-the art bag filters compliant to 30 mg/Nm<sup>3</sup>
- (2) Solar lighting for all streets and parking area.
- (3) Solar panels of roof top to minimise power consumption from own power plant at Karakolha (0.5 km away). This will reduce coal consumption in own CPP
- (4) 1 ha green belt plantation outside project boundary

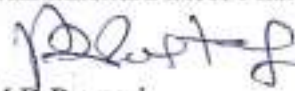
Accordingly, please find enclosed the following:

- (1) Form 1 along with Annexures
- (2) Addendum EMP for amendment & expansion
- (3) Form 2 (filled online)
- (4) Certified compliance report of EC dated 15.01.2018 from Regional Office, MOEF, Bhubaneswar

We hope you will find the above in order and process our case for grant of amendment & expansion of production under clause 7(ii) of EIA notification 2006.

Thanking You,

Yours faithfully,  
For Rungta Mines Limited,  
(Karakhendra Steel Plant )

  
M.D Rustagi  
Director

**Enclosed:** As above with soft copy