



# Rungta Mines Limited

( DHENKANAL STEEL PLANT )

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RML/DSP/ MOEF/21-22/ 254

Date: 05.08.2021

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. :** Environmental Clearance for expansion of 3.55 MTPA Steel Plant to 7.53 MTPA steel capacity located at villages Jharbandh, Galpada, Tarkabeda, Kothalu, Beruanpal, Kankalu, Benipathar, Kadala, Badamunda, Paika PurunaKote, Narahari pur, Chandrasekhar pur, Sanamunda, Kaliakoli, Kantimili, Sulanali Janhamunda, patala and Nuapada District Dhenkanal, State Odisha.

Dear Sir,

With reference to the above mentioned subject, we submit that Ministry of Environment, Forest and Climate Change, Government of India had accorded Environmental Clearance vide letter no. 11011/309/2018.IA.II(I) dated 15.02.2021 for the facilities given in **Table 1**.

**TABLE 1**  
**SANCTIONED CAPACITY AS PER EC DATED 15.02.2021**

Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021
	<b>Overall finished steel capacity</b>	<b>MTPA</b>	<b>3.55</b>
1	Beneficiation Plant	MTPA	5.4 (2X2.69 MTPA)
2	Pelletisation Plant		
2.1	Pellet Plant (I)	MTPA	3.75 (1X3.75 MTPA)
2.2	Pellet Plant (II)	MTPA	25.0 (4X3.75 MTPA +10X1 MTPA)
	<b>Total</b>	<b>MTPA</b>	<b>28.75</b>
3	Coal Washery	MTPA	5.029 (1X400TPH+1X235 TPH)
4	DRI Plant		
4.1	DRI (I)	MTPA	0.5218 (2X500 TPD)
4.2	DRI (II)	MTPA	0.8626 (3X600 TPD)
4.3	DRI (III)	MTPA	0.8626 (2X900 TPD)
	<b>Total</b>	<b>MTPA</b>	<b>2.247</b>
5	Mini Blast Furnace	MTPA	
5.1	MBF I	MTPA	0.777 (1X600 cum.)
5.2	MBF II	MTPA	1.166 (2X450 cum.)
	<b>Total</b>		<b>1.943</b>

[1]





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Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021
6.1	Sinter Plant (I)	MTPA	1.520 (2X80 sq.m.)
6.2	Sinter Plant (II)	MTPA	1.307 (1X110 sq.m.)
	<b>Total</b>	<b>MTPA</b>	<b>2.827</b>
7	Coke Oven Plant	MTPA	1.07 (6 batteries x 70,000 TPA + 1 battery x 250,000 TPA + 1 battery x 400,000 TPA)
8	Steel Melting Shop		
8.1	Steel Melting via Induction Furnace Route	MTPA	1.54 (15 X20 T IF + 4x25T LRF + 3x45 T LRF)
8.2	Steel Melting via Electric Arc Furnace-Vacuum Degassing-Argon Oxygen Decarburization Route	MTPA	1.680 (1X90 T+1X110 T and 1x90 T LRF+1x110T LRF)
	<b>Total</b>	<b>MTPA</b>	<b>3.22</b>
	Continuous Casting Machine (Billets/ Bloom Caster/ Slab)	MTPA	3.156 (11 nos. X 4 Strand)
9	Finished Product Facilities		
9.1	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ others)	MTPA	2.55 (2 nos.X0.2 + 4 nos.X0.3 + 1 no. X0.45 + 1 nos. X0.5 MTPA)
9.2	Strip Mill/ Sheet/ Coil/ Wire & Bar Mill/ Wire Rope	MTPA	0.5 (1 no.X0.2 + 1no.X0.3 MTPA)
9.3	Ductile Pipe Plant	MTPA	0.5 (2 nos.X0.25 MTPA)
	<b>Total</b>	<b>MTPA</b>	<b>3.55</b>
10	Producer Gas Plant	Million Nm <sup>3</sup> /Annum	5387 (20 nos.X3000 + 32 nos.X12500 + 28 nos.x7500 Nm <sup>3</sup> /hr)
11	Oxygen Plant	MTPA	0.294 (2 nos.X180 TPD + 1 no.X220 TPD + 2 nos.X130TPD)
12	Lime Plant	MTPA	0.3045 (1 no.X390 + 1 no.X 480 TPD)
13	Cement Plant	MTPA	1.686 (1 no.X2600 + 1 no.X2300 TPD)
14	Captive Power Plant		
14.1	Waste Heat Recovery Boiler (WHRB) based Captive Power Plant (CPP)		
(a)	DRI Kiln exit gas based	MW	150 (2 nos.X50 + 3 nos.X85 TPH + 2 nos.X120 TPH)
(b)	MBF Gas based	MW	35 (1 no.X50 + 2 nos.X45 TPH)
(c)	Coke Oven Gas based	MW	40 (2 no.X60 + 1no.X40TPH)
(d)	TRT	MW	10
	Sub Total	MW	235
14.2	AFBC/CFBC based CPP	MW	460 (10 nos.x125 + 1 nos.X130 + 3nos.X250 TPH)
	<b>Total</b>	<b>MW</b>	<b>695</b>
15	Colony	Acres	34





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The above plant is under operation as well as under construction. Rungta Mines Limited (Dhenkanal Steel Plant) now proposes to expand facilities from **3.55 MTPA steel to 7.53 MTPA Steel and its area from 715.9 ha (1769 acres) to 1444.35 ha (3569 acres)**. After expansion the Dhenkanal steel plant shall additionally produce hot rolled coil, cold rolled coil, annealed & pickled products, sheet, galvanized coil, colour coated sheets, pipes, tubes, wires and others. The various units existing and proposed are given in **Table 2**.

**TABLE 2  
EXISTING & PROPOSED PRODUCTION & CONFIGURATION OF DHENKANAL STEEL PLANT**

Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021	Proposed Additional	Total After expansion
	<b>Overall finished steel capacity</b>	<b>MTPA</b>	<b>3.55</b>	<b>3.98</b>	<b>7.53</b>
1	Beneficiation Plant	MTPA	5.4 (2X2.69 MTPA)	-	5.4 (2X2.69 MTPA)
2	Pelletisation Plant				
2.1	Pellet Plant (I)	MTPA	3.75 (1X3.75 MTPA)	-	3.75 (1X3.75 MTPA)
2.2	Pellet Plant (II)	MTPA	25.0 (4X3.75 MTPA + 10X1 MTPA)	-	25.0 (4X3.75 MTPA + 10X1 MTPA)
	<b>Total</b>	<b>MTPA</b>	<b>28.75</b>		<b>28.75</b>
3	Coal Washery	MTPA	5.029 (1X400TPH+1X235 TPH)	-	5.029 (1X400TPH+1X235 TPH)
4	DRI Plant				
4.1	DRI (I)	MTPA	0.5218 (2X500 TPD)	-	0.5218 (2X500 TPD)
4.2	DRI (II)	MTPA	0.8626 (3X600 TPD)	-	0.8626 (3X600 TPD)
4.3	DRI (III)	MTPA	0.8626 (2X900 TPD)	-	0.8626 (2X900 TPD)
4.4	DRI (IV)	MTPA	-	2.156 (5X900 TPD)	2.156 (5X900 TPD)
	<b>Total</b>	<b>MTPA</b>	<b>2.247</b>	<b>2.156</b>	<b>4.403</b>
5	Mini Blast Furnace	MTPA			
5.1	MBF I	MTPA	0.777 (1X600 cum.)	-	0.777 (1X600 cum.)
5.2	MBF II	MTPA	1.166 (2X450 cum.)	-	1.166 (2X450 cum.)
5.3	MBF III	MTPA	-	1.7290 (2X650 cum.)	1.7290 (2X650 cum.)
5.4	BF	MTPA	-	1.3125 (1X1250 cum.)	1.3125 (1X1250 cum.)
	<b>Total</b>		<b>1.943</b>	<b>3.0415</b>	<b>4.984</b>
6	Sinter Plant				
6.1	Sinter Plant (I)	MTPA	1.520 (2X80 sq.m.)	-	1.520 (2X80 sq.m.)
6.2	Sinter Plant (II)	MTPA	1.307 (1X110 sq.m.)	-	1.307 (1X110 sq.m.)
6.3	Sinter Plant (III)	MPTA	-	2.574 (2X130 sq.m.)	2.5740 (2X130 sq.m.)





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Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021	Proposed Additional	Total After expansion
6.4	Sinter Plant (IV)	MTPA	-	2.079 (1X210 sq.m.)	2.0790 (1X210 sq.m.)
	<b>Total</b>	<b>MTPA</b>	<b>2.827</b>	<b>4.653</b>	<b>7.48</b>
7	Coke Oven Plant	MTPA	1.07 (6 batteries x 70,000 TPA + 1 battery x 250,000 TPA + 1 battery x 400,000 TPA)	1.680 (12 batteries x 70,000 TPA + 2 batteries x 420,000 TPA)	2.75 (18 batteries x 70,000 TPA + 1 battery x 250,000 TPA + 1 battery x 400,000 TPA + 2 batteries x 420,000 TPA)
8	Steel Melting Shop				
8.1	Steel Melting via Induction Furnace Route	MTPA	1.54 (15 X20 T IF + 4x25T LRF + 3x45 T LRF)	1.12 (20 X20 T IF + 8x45 T LRF)	2.66 (35 X20 T IF + 4x25T LRF + 11x45 T LRF)
8.2	Steel Melting via Electric Arc Furnace-Vacuum Degassing-Argon Oxygen Decarburization Route	MTPA	1.680 (1X90 T+1X110 T and 1x90 T LRF+1x110T LRF)	-	1.680 (1X90 T+1X110 T and 1x90 T LRF+1x110T LRF)
8.3	Steel Melting via BOF/ NOF/ EOF/ EAF-LF-VD/ RH/ AOD	MTPA	-	3.069 (2X65 T+4X45 T and 2x65 T LRF+4x45T LRF)	3.069 (2X65 T+4X45 T and 2x65 T LRF+4x45T LRF)
	<b>Total</b>	<b>MTPA</b>	<b>3.22</b>	<b>4.189</b>	<b>7.409</b>
	Continuous Casting Machine (Billets/ Bloom Caster/ Slab)	MTPA	3.156 (11 nos. X 4 Strand)	4.147 (7 nos. X 4 Strand)	7.303 (18 nos. X 4 Strand)
9	Finished Product Facilities				
9.1	Rolling Mill (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ wire drawing /others followed by one or more in series of pickling, cold rolling, annealing, galvanizing)	MTPA	2.55 (2 nos.X0.2 + 4 nos.X0.3 + 1 no. X0.45 + 1 nos. X0.5 MTPA) (TMT/ Flat/ Round/ Wire Rod/ Structural Mill/others)	Change in product mix TMT/ Flat/ Round/ Wire Rod/ Structural Mill/ wire drawing /others followed by one or more in series of pickling, cold rolling, annealing, galvanizing	2.55 (2 nos.X0.2 + 4 nos.X0.3 + 1 no. X0.45 + 1 nos. X0.5 MTPA)
9.2	Strip Mill/ Sheet/ Coil/ Wire & Bar Mill/ Wire Rope	MTPA	0.5 (1 no.X0.2 + 1no.X0.3 MTPA)	-	0.5 (1 no.X0.2 + 1no.X0.3 MTPA)
9.3	Ductile Pipe Plant	MTPA	0.5 (2 nos.X0.25 MTPA)	-	0.5 (2 nos.X0.25 MTPA)
9.4	Rolling mill (Long/TMT/ Flat/Strip/ Round/ Wire Rod/Hot Rolled/HRC/ /Structural Mill/Plate/ Pipe& Tube Products /wire drawing etc) followed by one or more in series of pickling, cold rolling, annealing, galvanizing	MTPA	-	2.78 (2 X 0.55 MTPA+4X0.42 MTPA)	2.78 (2 X 0.55 MTPA+4X0.42 MTPA)
9.5	Rolling Mill (Long/ TMT/ Flat/ Strip/ Round/ Wire	MTPA	-	1.2	1.2





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Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021	Proposed Additional	Total After expansion
	Rod/ Hot Rolled/ HRC/ Structural Mill/ Tin Plate/ Electrical Steel/ CRGO/ Wire Drawing followed by (1) Pipe & Tube Products or (2) one or more in series of pickling, cold rolling, annealing, galvanizing and colour coating				
	<b>Total</b>	<b>MTPA</b>	<b>3.55</b>	<b>3.98</b>	<b>7.53</b>
10	Producer Gas Plant	Million Nm <sup>3</sup> / Annum	5387 (20 nos.X3000 + 32 nos.X12500 + 28 nos.x7500 Nm <sup>3</sup> /hr)	-	5387 (20 nos.X3000 + 32 nos.X12500 + 28 nos.x7500 Nm <sup>3</sup> /hr)
11	Oxygen Plant	MTPA	0.294 (2 nos.X180 TPD + 1 no.X220 TPD + 2 nos.X130TPD)	0.84 (2 nos.X600 TPD + 1 no.X1200 TPD)	1.134 (2 nos.X180 TPD + 1 no.X220 TPD + 2 nos.X130TPD + 2 nos.X600 TPD + 1 no.X1200 TPD)
12	Lime Plant	MTPA	0.3045 (1 no.X390 + 1 no.X 480 TPD)	0.462 (1 no.X600 + 2 no.X 400 TPD)	0.7665 (1 no.X390 + 1 no.X 480 TPD + 1 no.X600 + 2 no.X 400 TPD)
13	Cement Plant	MTPA			
13.1	Cement Grinding Unit	MTPA	1.686 (1 no.X2600 + 1 no.X2300 TPD)	Existing revised to 1.725 (2X2500 TPD) with change in configuration And additional 1.5525 (3 X 1500 TPD)	3.2775 (2X2500 TPD + 3 X 1500 TPD)
13.3	Clinker Production Unit	MTPA	0.96	Existing revised to 1.2 and additional 4.4	5.6 (3X1.2 MTPA + 1X2 MTPA)
14	Captive Power Plant				
14.1	Waste Heat Recovery Boiler (WHRB) based Captive Power Plant (CPP)				
(a)	DRI Kiln exit gas based	MW	150 (2 nos.X50 + 3 nos.X85 TPH + 2 nos.X120 TPH)	150 (5 nos.X120 TPH)	300 (2 nos.X50 + 3 nos.X85 TPH + 7 nos.X120 TPH)
(b)	MBF Gas based	MW	35 (1 no.X50 + 2 nos.X45 TPH)	70 (2 no.X90 + 1 nos.X120 TPH)	105 (1 no.X50 + 2 nos.X45 TPH + 2 no.X90 + 1 nos.X120 TPH)
(c)	Coke Oven Gas based	MW	40 (2 no.X60 + 1no.X40TPH)	Exiting revised to 75 (2 no.X60 + 1no.X40TPH + 1 no.X140 TPH) and additional 120	195 (2 no.X60 + 1no.X40TPH + 1 no.X140 TPH + 3 no.X50 + 2 no.X75 + 2no.X150TPH)



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( DHENKANAL STEEL PLANT )

Sl.	Proposed Plant facilities	Unit	As per EC dated 15.02.2021	Proposed Additional	Total After expansion
				(3 no.X50 +2 no.X75 2no.X150TPH)	
(d)	TRT	MW	10	20	30
(e)	WHRB(Clinker Plant)	MW	-	25 (2 nos.X25 TPH+1 x 50 TPH)	25 (2 nos.X25 TPH+1 x 50 TPH)
	Sub Total	MW	235	420	655
14.2	AFBC/CFBC based CPP	MW	460 (10 nos.x125 + 1 nos.X130 + 3nos.X250 TPH)	175 (2 nos.x260 TPH+ 1x 180 TPH)	635 (10 nos.x125 + 1 nos.X130 + 3nos.X250 TPH + 2 nos.x260 TPH+ 1x 180 TPH)
	<b>Total</b>	<b>MW</b>	<b>695</b>	<b>595</b>	<b>1290</b>

Hence, in line with the requirement of the EIA notification 2006 and its amendments till date, we are hereby submitting our online application for Terms of Reference (TOR) for expansion of Dhenkanal Steel Plant from **3.55 MTPA to 7.53 MTPA steel and its area from 715.9 ha (1769 acres) to 1444.35 ha (3569 acres)**. The following have been uploaded on the parivesh.nic.in website:

1. Form 1, duly filled online
2. Brief summary of the project
3. Previous EC letter dated 15.02.2021
4. KML File of proposed project boundary
5. Proposed project boundary superimposed on the survey of India Toposheet.
6. Authorization letter for authorized signatory
7. Proposed TOR (along with the location of sampling stations monitored in Summer 2021)
8. Pre-feasibility Report as per MOEF&CC guidelines
9. Plant Layout as additional attachment
10. Additional attachments as follows:
  - Annexure: 1 - Existing and Proposed facilities
  - Annexure: 2 - List of plots
  - Annexure: 3 - Features in 15 km radius (Maps and list with distance & direction)
  - Annexure: 4 - List of amenities in villages of 15 km radius

We hope you will find the above in order and issue us Terms of Reference (TOR) online mode as per MOEF&CC Notification SO 751 (E) dated 17.02.2020 for the proposed expansion plant and permit for the use of baseline data monitored between March-May 2021.

Thanking You,

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

P.K. Chaturvedi  
Director

Enclosed: As above