

1. Implementation status of the existing EC

S.N o	Plant / Facility	As per EC dated :09.03.2016 (A=A1+A2)								Proposed Expansion (B)		Final after expansion (A+B)		Remarks
		Total (A)		Implemented (A1)		Un-implemented (A2)		As per CTO	Config.	Capacity	Config.	Capacity		
		Config.	Capacity	Config.	Capacity	Config.	Capacity	Capacity						
1	HBI Plant (DRI Mod I to VI) (in MTPA)	Mod I-IV: 4.0 Mod:V -1.98 Mod VI: 1.85	7.83 (- 4.0* =3.83)	Mod I-IV: 4.0 Mod:V - 1.98 Mod VI: 1.85	7.83	-	7.83	0	0	Mod I-IV: 4.0 Mod:V -1.98 Mod VI: 1.85	7.83	* Earlier planning was to remove HBI Modules (1 to 4) totalling 4 MTPA and replace it with Blast Furnace of 3.0 MTPA. This could not be implemented due to fund constraints and legal cases at the NCLT. *Original capacity prior to EC 2016 was 7.83 MTPA only. It is now proposed to maintain this original capacity. CTO has been sanctioned for 7.83 MTPA.		
2	Blast Furnace (BF) (in MTPA)	1 x 2.04 (2200 m3) 1 x 3.0	5.04	1 x 2.04	2.04*	-	(-3.0#)	2.04	1 x 0.96* + 2 x 4.0 (~4500 m3 each)	8.96	1 x 3.0 2 x 4.0	11.0	# 3.0 MTPA couldn't be implemented due to fund constraints and legal cases at the NCLT, now dropped. * Existing operational BF of capacity 2.04 MTPA is proposed to be upgraded to 3.0 MTPA. 2 nos. of new BFs with 4.0 MTPA capacity each is proposed.	
3	Sinter Plant	1x 1.48 (1 x 120 m2) 2 x 3.5 (~ 325 m2 each)	8.48*	1 x 1.48	1.48	-	(-7.0#)	1.48	2 x 3.5	7.0	1x 1.48 (1 x 120 m2) 2 x 3.5 (~ 325 m2 each)	8.48	# 7.0 MTPA plant couldn't be implemented due to fund constraints and legal cases at the NCLT, it was dropped. Now, 7.0 MTPA Plant is proposed in Expansion Project (It will comprise of 02 number plants).	
4	Coke Oven (Recovery Type)	1 x 1.20 1 x 1.35	2.55	2 x 59 Ovens	1.35#	-	1.20*	-	4 x 59 Ovens	3.05	2 x 59 Ovens	4.4	# Under implementation *1.2 MTPA plant could not be implemented due to fund	

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		Config.	Capacity	Config.	Capacity	Config.	Capacity	Capacity						
											4 x 59 Ovens		constraints and legal cases at the NCLT. *2016 EC approved for 2.55 MTPA, AMNSI is proceeding only with 1.35 MTPA since 1.2 MTPA originally secured in 2010 EC has now lapsed.	
5	Air Separation Plant (Nm3/Hr)	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD (Only oxygen) 1 X 2200 TPD	424,744	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD (Only oxygen)	360,544	1 X 2200 TPD	64,200*	360,544	-	-	1 X 343 TPD 1 X 257 TPD 1 X 785 TPD 3 X 1714 TPD 1 X 700 TPD 1 X 2200 TPD (Only oxygen)	424,744	*64200 Nm3/hr plant will be established as per 2016 EC	
6	SMS-1 (EAF 4 Nos.)	4 x 150 MT Heat size	4.6*	4 x 150 MT Heat size	4.6*	-	4.6	-	-	4 x 150 MT Heat size	4.6	*Earlier planning was to remove 4.6 MTPA EAF -4 nos. and replacing with BOF-3 nos. in its place but that could not be implemented due to fund constraints and legal cases at the NCLT.e Original capacity prior to EC 2016 was 4.6 MTPA only and it is now submitted to retain this original capacity. CTO has been sanctioned for 4.6 MTPA.		
7	SMS-2	4 x 200 MT Heat size	5.0	4 x 200 MT Heat size	5.0	-	5.0	0	4 x 200 MT Heat size	5.0				

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		Config.	Capacity	Config.	Capacity	Config.	Capacity	Capacity						
	H Saw Pipes (in MTPA)	1 x 0.15	0.15	1 x 0.15 1 x 0.15*	0.30*		0	0.3		0	1 x 0.15 1 x 0.15*	0.30	0.15 MTPA as per 2016 EC *CTO taken for additional 0.15 MTPA from GPCB. (0.15+0.15=0.30).	
	L Saw Pipes (in MTPA)	1 x 0.33	0.33	1 x 0.33	0.33		0	0.33		0	1 x 0.33	0.33		
15	CPP (in MW)	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW 1 X 48 MW	604	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW	556	1 x 48 MW	(-48#)	556	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW 2 x100 MW 2 x 25 MW	250 #		806	#48 MW Power plant dropped # 2 x 100 MW surplus fuel gas + 2 x 25 MW TRT.	
16	Waste Heat Recovery based Power Plant (in MW)	1 x 25 MW 1 x 20 MW	45	1 X 25 MW	25	1 X 20 MW	20*	25	1x 100 MW CDQ	100	1 x 25 MW 1 x 20 MW 1x 100 MW CDQ	145	*20 MW to be implemented 1 x 100 MW CDQ based	
17	Jetty (length in m)	456 m+ 734 m	1190 m	456 m + 734 m	1190 m	-	-	734 m*	-	-	456 m + 734 m	1190 m	* 734- and 456-meters capacity was sanctioned in 2006 EC. This was implemented although inadvertently mentioned 734 m only in 2016 EC and CTO also mentioned the same 734m length.	

2. The unit configuration and capacity of existing and proposed project is given below:

Sr. No	Name	Existing Units		Proposed Units		Total (Existing + Proposed)	
		Configuration	Production TPA	Configuration	Production TPA	Configuration	Production TPA
1.	HBI Plant (DRI Mod I to VI)	DRI Module I to VI	7830000	--	--	Mod I to VI	7830000
2.	Blast Furnace (BF)	1x3200 cum.	2040000	Upgradation of existing BF#1 2x4500 Cum	960000	BF#1 1x3200 cum	3000000
					8000000	BF#2&3 2x4500 cum	8000000
3.	Sinter Plant	1 x 120 sqm	1480000	~ 650 sqm	7000000	~ 770 sqm	84800000
4.	Coke Oven (Recovery Type)	2x59 Ovens	1350000	4x59 Ovens	3050000		4.4
5.	Air Separation Plant	---	424744		---		424744 Nm ³ /hr. (64200 Nm ³ /hr will be established as per 2016 EC)
6.	SMS-1 (EAF 4 Nos.)	4x150 Ton	4600000	--		4x150 Ton	4600000
7.	SMS-2 (ConArc 2 Nos.)	2x200 Ton	5000000	--	--	2x200 Ton	5000000
8.	SMS-3 (BOF-3 nos.)	---	---	3x350 Ton	6000000	3x350 Ton	6000000
9.	Corex Plant*		1700000	---	--	---	1700000
10.	Lime Plant (Lime/Dolime)	4x300 Ton Shaft Kilns 1 x 200 + 1x 500 TPD	930000 + 270000 *	4x600 Ton + 1x500 Ton + 1x200 Ton Shaft Kilns	800000	4x300 Ton + 4x600 Ton + 1x500 Ton + 1x200 Ton	2000000 (*Approved in Modification Project)
11.	CPP	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW	556	By-product Gas Fired TRT BF #2&3	2x100 MW 2X25 MW	1 X 475 MW 1 X 31 MW 1 X 40 MW 1 X 10 MW 2x100 MW 2X25 MW	806
12.	Plate Mill	1x1.5 MTPA	1500000	--	--	1x1.5 MTPA	1500000
13.	CSP and HRC	CSP 1x3.5 MTPA HRC 1x4.5 MTPA	3500000 4500000	1x6 MTPA	6000000	CSP 1x3.5 MTPA HRC 1x4 MTPA HRC 1x6 MTPA	14000000
14.	CRM		5.24	--	-		5.24
15.	Jetty		734 meters	---	---	--	1190 meters
			456 meters	---	---	---	

Sr. No	Name	Existing Units		Proposed Units		Total (Existing + Proposed)	
		Configuration	Production TPA	Configuration	Production TPA	Configuration	Production TPA
16.	Waste Heat Recovery Plant	1 x 25 MW 1 x 20 MW CDQ	25 MW 20 MW	1 x 100 MW CDQ	100 MW	—	145 (*20 MW to be implemented 1 x 100 MW CDQ based)
17.	H Saw Pipes		300000	---	---		300000
	L Saw Pipes		330000	---	---		330000

* Plant will be operated till the proposed expansion is completed. Thereafter it will be shutdown safely and will be started only in case of any unit going down but maintaining sanctioned production of hot metal.