Project : Expansion of MS Ingots/Billets and TMT Bars, Jaipur

Promoter: Amar Pratap Steel (P) Ltd.

Project Summary

	Gaurang Environmental Solutions Pvt. Ltd.	Page
**	Report Ref: GESPL_472/2022-23 /ToR/180	Rev. No. 01

Project Summer

Project: Expansion of MS Ingots/Billets and TMT Bars, Jaipur	r
	Project Summary
Promoter: Amar Pratap Steel (P) Ltd.	

PROJECT SUMMARY

INTRODUCTION 1.1

Amar Pratap Steel (P) Ltd.is an existing unit which is situated at Plot No. A-161, RIICO Industrial Area, Bagru Ext-II, Jaipur (Rajasthan) which involves production of MS Ingots to the tune of 50 MTD/15,000 TPA. Since 2010, production of TMT Bars has been started to the tune of 96.70 MTD/29,000 TPA within the same premises. Now unit undergoes expansion of MS Ingots/Billets from 15,000 TPA to 45,000 TPA and TMT Bars from 29,000 TPA to 1,95,000 TPA. The total cost of the project after expansion will be Rs. 30.0 Crores (Existing – 19.66 crore, Proposed-10.34 Crore).

The project activity is listed at category-'B' under item 3(a)-Metallurgical industries (ferrous& non-ferrous)in column 5 point (ii) In case of secondary metallurgical processing industrial units, those projects involving operation of furnaces only such as induction and electrical arc furnace, submerged arc furnace, and cupola with capacity more than 30,000 tonnes per annum (TPA) would require environmental clearance as per the EIA Notification dated 14th September' 2006 and its subsequent amendments.

Table 1.1 Details of Environmental Setting

		75 37782	of Environment	Details				
S. No.	Particulars	. # B		Littuis				
1	Location		A-161, RIICO In	dustrial	Δ rea	Bagru E	xt-II.	
A	Plot No.		A-161, RIICO III	dustriar	i ii ou,	Dug		
В	Tehsil	Bagru						
C	District	Jaipur						
D	State	Rajasthai						
E	Latitude	26°48'23						
F	Longitude	75°34'6.0	q.m; proposed	avnansio	n is	coming	up W	thin th
H	Total Plant Area	13,125 s	q.m; proposed	ехраныю.	П 10	Comme	T	
		same pre						
2.	Nearest Habituation	Bagru:2.	6 O law ENE					
3.	Nearest Major Town	Jaipur: 2	5.0 km, ENE	Distar	ice	Direct	ion	
4.	Nearest Highway		Particulars	2.5	icc	NW		
			NH-48			WSW	7	
			MDR 81	3.7				
			NH11C	3.5		W	1 - •	L
	Nearest Railway Station	Partic	ulars			stance		ection
· 5.	from Project site	Sheo S	ingh Pura Railw	ay	12.	0	N	
	Hom Floject site	Station					-	
			Junction		25.	2	EN	H.

		Page
	Gaurang Environmental Solutions Pvt. Ltd.	Rev No. 01
3	Report Ref: GESPL_472/23-24 /Draft EIA/014	10.10.

Project: Expansion of MS Ingots/Billets and TMT Bars, Jaipur	
Promoter: Amar Pratap Steel (P) Ltd.	Project Summary

6.	Airport	Jaipur I	nternational Airport	~23.8 km in E dir	ection
7.	Defence installations	None within study area			
8.	Archaeological important		None within study area		
9.	Ecological sensitive zones	None within study area			
10.	Reserved/Protected forest/National Parks/Wildlife Sanctuary (from Project	Corrido	RF/PF/Wildlife Sar r, Tiger Reserve are Particulars	nctuary, National as under: Distance (Km)	Park, Elephant Direction
	Site)	RF		(From Project	Boundary)
		KI			
		1.	Muhana R.F.	13.3	ESE
11.	Nearest streams / Rivers	S. No.	Particulars	Distance (Km)	& Direction
	/ water bodies (from Project Site)			(From Project	Boundary)
	Project Site)			er Bodies	
		1.	Sadriya Nadi	0.25,	S
		2.	Nevata Talav	10.9,	Е
		3.	Bandi River	12.0, W	'SW
		4.	Hingoniya Sagar	10.5, W	'SW
12.	Coinni	"Source	: - All Distances are to	aken with respect to	Toposheet.
12.	Seismic zone	zoning m	is located in the Sei ap of India given in Low Damage Risk Z	BIS code IS: 1893	per the seismic 3 (Part1)-2002,

1.2 DESCRIPTION OF THE PROJECT

The salient features of the proposed plant are given below:

Table 1.2 SALIENT FEATURES OF PROJECT

S	Particulars	T	Table 1.2 SALIENT FEATURES OF PROJECT					
	14 ANDERSO MARKONINO				Deta	ails		
No								
1.	Project	Exp	pansion of	MS Ingots/Billets t	from 15.00	0 TPA to 45,000 TPA as	and TOWARD (<u> </u>
	Name				15,00	0 11A to 43,000 1FA a	nd IMI Bars i	from
	- (51220	29,0	000 TPA to	1,95,000 TPA				
2.	Location	Plo	No. A-16	1 RIICO Industrial	Aron Dam	ru Ext-II, Jaipur (Rajasth		
3	Production	110	C M-	1, KIICO IIIUUSIIIai	Alea, Bag		the state of the s	
			S. No.	Name of Products		Production Capacity (T)	PA)	
	& its				Existing	Proposed	Total	1
	Capacity		1	M.S. Ingots/Billets	15,000	30,000 .	45,000	
	Net			Induction Furnace		Replace existing (6 TPH)		
				(Capacity and	6 TPH x 1	induction furnace - 15	15 TPH x 1	
				Numbers)		TPH	-	
			2	TMT Bar	29,000	1,66,000	1,95,000	
				Reheating Furnace		Upgrade existing (9 TPH)	, , , , , , , , , , , , , , , , , , , ,	
		ł		(Capacity and	9 TPH x 1	Reheating furnace – 30		
				Numbers)		TPH	30 TPH x 1	

	Gaurang Environmental Solutions Pvt. Ltd.	Page
*	Report Ref: GESPL_472/23-24 /Draft EIA/014	Rev No. 01

		and TMT Bars, Jai	pur	1 Cummary
Project:	Expansion of MS Ingots/l	Billets and Tara		Project Summary
1103-	er: Amar Pratap Steel (P)	Ltd.		
Promot	er. Allian		· varithin the	same premises.

ject: Expansion of N	To Ingotal		1103	
moter: Amar Prata	p Steel (P) Ltu.			ises.
	(3,125 sq.m; proposed expansion is co	oming up with	in the same prem	
4 Land 1	3,125 sq.m; proposed expans			
requirement				
	JVVNL			After
51 Some		Exi	sting Total	
power	S. Water Consumption	(KI		sion (KLD)
6. Water	No	1.5	7	recycled water
Requirement	1. Domestic purposes	1.0	5.0 -	recycled water
	2. Gardening		from 5	
	1 vial Process	20	0.0	
	3. Industrial Process	quenching		
	(Cooming		657	
	purposes)		2.5	
	Total Fresh Water demand	5,	(20))
	Recycled water	1	97.5 630.0	
	Recycled water			
7 Source of	Ground water supply		- T	d Total
Water		Existin	g Propose	30
8. Manpower	Particulars During Construction Phase		30	150
	During Constitution Phase	120	30	
	Domestic Waste water			Ho existing unit.
9 Wastewater	Domestic Waste Waste	ic wastewater i	s being generated	d from the existing
generation	Domestic Waste water Approximately 1.0 KLD Domestic	1 C-11 overad	by soak pit. Afte	er expansion to the tune
	Approximately 1.0 KLD Domesti which is disposed off into septic of 6.0 KLD waste water will	tank followed	Oy seems F	treated into Automatic
	winds and water will	be generated.	Which will be	Garda Langer STP
	of 6.0 KLD waste water	tachnology S	TP (10 KLD). 7	Treated water from 511
	of 6.0 KLD waste water will Control Airlift Crossflow MBR	(connores)	cludge will be	generated and utilized as
	Will be reased in 8	ent/ plantation	within the plant p	oremises.
	will be reused in greenbelt/plant manure for greenbelt developme	1		
	Industrial Waste Water There is being/will be no indu		tion as t	he water from cooling i
	There is being/will be no indubeing/will be recycled. Hence,	istrial effluent	generation, as a	ctowater outside th
	being/will be recycled. Hence,	1 1	11 be achieving Z	LD.
	being/will be recycled. Hence, company premises; Thus, the u	init is being/wi	11 00	
	- Congration			Mardo of Disnosal
10 Solid wa	aste Solid Waste Generation Unit	xisting Pro	posed Total 5 23	disposed off solid waste
generatio	n Particulars Unit 1 Domestic solid Kg/day	18	5 23	dumn sites
	pointeste 22		6 9	Used for road filling
	Slag T/day	3		1 Coursed filling
	77 /1-17	3	11 14	Used for road filling
	Coal ash Kg/day	5		
	Hazardous Waste	Hazardo	ous Waste	
			Ouantity	Management
	Particulars Category		Zum-1	

		F	Page
بيسنو	Gaurang Environmental Solutions Pvt. Ltd.	Rev No	0. 01
	Report Ref: GESPL_472/23-24 /Draft EIA/014		
	Report Ker. CH2242		

Project: Expansion of MS	Inc. (mu	
Promoter: Amor D.	Ingots/Billets and TMT Bars, Jaipur	
Promoter: Amar Pratap S	feel (P) Ltd.	
		Project Summary
		Project Summary

				rroje	ct Summary
	Used/ Spent oil 5.1	Existing 0.01	Proposed		
11 Project Cost 12 EMP costs	Capital cost: Rs 121 74 lac	KL/ year .66 crore, Prop	posed-10.34	0.01 KL/year Crore)	Authorized Recyclers
	Recurring cost: Rs. 18.65 lac				
1.3 ENVIRO	NMENTAL				

ENVIRONMENTAL MONITORING

For monitoring of the environmental parameters like meteorology, air, water, soil and noise quality, the monitoring stations have been established at different locations in and around the project area. The base line data has been collected in the pre-monsoon season from March, April and May'2022.

Ambient Air Quality

Ambient air quality monitoring has been carried out with a frequency of two days per week at eight locations. The summary of these results for all the locations is presented below. These are compared with the standards prescribed by Central Pollution Control Board (CPCB) for rural and residential zone.

Table No.1.3 Summary of Ambient Air Quality for all the locations

S. No.	Sampling Location		3 Summary of Ambient Air Quality for all the locations Parameters							
1.	Project Gi		РМ ₁₀ (µg/m³)	PM _{2.5}	SO ₂	NO ₂	CO			
1.	Project Site	Min	71.21	(ng/m³)	(µg/m³)	(µg/m³)	(μg/m³			
1		Max	95.41	40.26	8.5	16.5	0.38			
	1	Avg.	89.04	48.44	13.1	25.9	1.38			
- 1		98tho/0	55.04	43.74	11.18	20.87	0.83			
2.	Del Tri	ile	95.27	10.00			0.85			
	Dehmi Khurd	Min	65.04	48.06	13.01	25.39	1.37			
1		Max	89.12	35.67	4.31	9.18	0.45			
-		Avg.	73.96	57.45	9.76	17.68	0.59			
		98th%	1230	45.56	7.82	14.56	0.52			
. 1	Palri	ile	87.69	57.36			0.52			
. 1	. а ш	Min	64.58	38.32	9.75	17.42	0.59			
		Max	90.58	58.13	4.82	9.23	0.47			
- 1		Avg.	74.98	47.39	9.81	18.15	0.61			
		98th%		47.39	7.70	14.64	0.53			
C	hirota	ile	89.92	57.93	0.70		-100			
C		Min	66.58	36.98	9.78	18.13	0.60			
		Max	80.56	44.56	6.35	14.69	0.48			
	_	Avg.	72.40	39.27	12.06	20.28	0.95			
		98 th %			8.51	17.59	0.76			
		ile	79.32	43.32	11.70	20.22	0.94			

Gaurang Environmental Solutions Pvt. Ltd. Report Ref: GESPL_472/23-24 /Draft EIA/014	Page
227014	Rev No. 01

oiec	t: Expansion of MS Ingot	s/Billets an	d TMT Bar	s, Jaipus		Project Sum	mary
. 0,00	oter: Amar Pratap Steel (I	P) Ltd.					
rome	ner. Ama			26.70	4.51	9.15	0.45
		Min	57.52	36.72	9.81	17.03	0.61
	-	Max	86.41	52.95	6.86	13.18	0.53
1	-	Avg.	74.76	46.81	0.00		0.60
]	Lokhanda	98tho/o		50.66	9.77	16.83	0.60
		ile	86.39	52.66	6.15	15.48	0.49
		Min	54.59	36.15	11.82	20.04	0.76
	+	Max	73.41	44.15	8.12	17.56	0.64
1	-	Avg.	66.55	40.05	0.12		0.76
]	Bagru	98th%		15.04	11.56	19.76	0.76
1		ile	72.32	43.84	9.25	13.63	0.51
		Min	75.48	45.38	13.6	18.67	1.16
7.	500.50	Max	92.82	52.05	11.65	16.61	0.77
	<u> </u>	Avg.	83.40	47.73	11.05	10.67	1.14
	Bari Ka Khera	98 th %		51.35	13.49	18.67	
		ile	92.34		10.52	17.16	0.65
		Min	80.41	45.38	16.05	23.21	0.88
8.		Max	98.08	55.12	13.54	20.02	0.75
			88.57	48.42	15.34		
	Within Industrial area	98th%			16.04	23.12_	0.83
		ile	97.92	54.97	80	80	02
			The second secon	60	80		
NA	AQ STANDARDS NA	AUS, I'U		1	ľ		
2	4 hourly monitoring (ex for Eight hour)	ccpt -	1		ented in µg/m	3	

All values were found to be well within the latest national standards.

Eight groundwater samples were collected as grab samples and were analyzed for various parameters. The result indicates that the ground water quality values are below the permissible limits and is suitable for drinking purpose. However, the same shall be suitably pre-treated before Drinking. As per IS 10500.

The noise monitoring has been conducted for determination of noise levels at eight Noise Quality locations covering 10 km study area. The noise levels at each location were recorded for 24-hrs. The results obtained were compared with the national standards and were found to be within limits

The project site is already surrounded by the industrial environment and does not hold

		Page
-	Gaurang Environmental Solutions Pvt. Ltd.	Rev No. 01
	Report Ref: GESPL_472/23-24 /Draft EIA/014	
700	Report	

Project: Expansion of MS Ingots/Billets and TMT Bars, Jaipur Promoter: Amar Pratap Steel (P) Ltd. **Project Summary**

any critical habitat/ecosystem as well as any threatened floral or faunal species. So project site will not have any adverse impact on the environment.

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION 1.4

The summary of anticipated adverse environmental impacts due to the proposed expansion project and mitigation measures are given below.

1.4.1 Air Environment

PUC certified vehicles is being/will be used. To minimize & control the emission from induction furnace exhaust gases after suction hood will be passed through spark arrester along with bag house before its discharge to atmosphere through stack (30 m). From Re-Heating Furnace, gases passed through gravity chamber, multi cyclone and bag house before its discharge to atmosphere through stack (30 m). The flue gas outlet will be designed to maintain the PM emission level below 30 mg/Nm³. DG sets will be fitted with adequate stack (10 m from ground level) to take care of particulate & gaseous emission. All roads shall be paved on which movement of raw materials or products will take place. Coal will be stored in covered designated storage area. Water Environment

1.4.2

Domestic Waste water

Approximatly 1.0 KLD Domestic wastewater is being generated from the existing unit, which is disposed off into septic tank followed by soak pit. After expansion to the tune of 6.0 KLD waste water will be generated. Which will be treated into Automatic Control Airlift Crossflow MBR technology STP (10 KLD). Treated water from STP will be reused in greenbelt/plantation purposes. Sludge will be generated and utilized as manure for greenbelt development/ plantation within the plant premises. Industrial Waste Water

There is being/will be no industrial effluent generation, as the water from cooling will be recycled. Hence, there will be no any discharge of wastewater outside the company premises; thus the unit is being/will be achieving ZLD.

Gaurang Environmental Solutions Pvt. Ltd.	
Report Ref: GESPL_472/23-24 /Draft EIA/014	Page
	Rev No. 01

CAGO Leasts/Pillots and TMT Bars. Jaipur	
roject: Expansion of MS Ingots/Billets and TMT Bars, Jaipur	Project Summary
Promoter: Amar Pratap Steel (P) Ltd.	1 Toject Summar y

1.4.3 Noise Environment

33% of total project area is being/will be under green cover. Earmuffs/earplugs are being/will be provided to all the workers deployed at high noise generating sources. Acoustically insulated cubicles will be provided to operators working near high noise generation sources. Effective preventive maintenance and vibration measurement of all rotating equipments will be done which will help in improvising the plant life and reduce the noise.

1.4.4 Socio-Economic Environment

The requirement of unskilled manpower will be met from nearby villages during construction and operational phase through training and development. The project will also help in generation of the indirect employment apart from direct employment. This will be a positive socio-economic development for the region. There will be a general upliftment of standard of living in the region.

1.4.5 Solid Waste Generation & Disposal

Solid Waste Generation

S. No.	Particulars	Unit	Existing	Proposed	Total	Mode of Disposal
1.	Domestic solid	Kg/day	18	5	23	disposed off solid waste dump sites
2	Slag	T/day	3	6	9	Used for road filling
3	Coal ash	Kg/day	3	11	14	Used for road filling

		Hazard	ous Waste	= 10Tm	
Particulars	Category	,	Management		
		Existing	Proposed	Total	
Used/ Spent oil	5.1	0.01 KL/ year	-	0.01 KL/year	Authorized Recyclers

1.5 ENVIRONMENTAL MONITORING PROGRAMME

Environmental Monitoring Cell

		Page	
(Gaurang Environmental Solutions Pvt. Ltd.		
9	Report Ref: GESPL_472/23-24 /Draft EIA/014	Rev No. 01	
The same of	Report Ren Gasta		

Project: Expansion of MS Ingots/Billets and TMT Bars, Jaipur	
Promoter: Amar Pratap Steel (P) Ltd.	Project Summary

A centralized environmental monitoring cell will be established for monitoring of important and crucial environmental parameters which are of immense importance to assess the status of environment during MS ingots/Billets and rolling mill operation. The following routine monitoring programme as detailed in as under shall be implemented at site. Besides to this monitoring, the compliances to all environmental clearance conditions and regular permits from RSPCB/MoEF shall be monitored and reported periodically.

1.6 ENVIRONMENTAL ACTION PROGRAMME

Amar Pratap Steel (P) Ltd. is quite conscious of its responsibility for maintaining clean and a healthy environment. The total capital cost towards EMP is Rs. 121.74 lac. and recurring cost will be Rs. 18.65 lac. The annual expenditure to be incurred on plantation, maintenance, monitoring and analysis of ambient air, effluent water and soil etc as shown in Table below:

Table 1.5: Annual Expenditure of Environmental Protection Measures

S.	Description of Item			COST	OF EMP		
No.		Exi	Existing		posed	Г	otal
		Capital Cost	Recurring Cost	Capital Cost	Recurring Cost	Capital Cost	Recurring Cost
1	Air Pollution Control	18.0	2.5	32.0	2.2	50.0	4.7
2.	Water Environment (Existing: Septic tank followed by soak pit, proposed: Installation of Automatic Control Airlift Crossflow MBR STP)	0.5	0.2	7.0	2.0	7.5	2.2
3	Rain water Harvesting (1-Proposed)			5.0	1.0	5.0	1.0
4	Environmental Monitoring (Air, Water, Noise and Soil)		2.0		4.0		6.0
5	Green Belt	1.0	0.25	15.74	2.0	16.74	2.25
6	Occupational Health and Safety (PPE) (Training, Medical Checkup & Awareness programme)	2.5	0.5	10.0	2.0	12.5	2.5
7	Conservation plan-Schedule I species			30.0		30.0	
	Total	22.0	5.45	99.74	13.2	121.74	18.65

9	Gaurang Environmental Solutions Pvt. Ltd.	Page		
7	Report Ref: GESPL_472/23-24 /Draft EIA/014	Rev No. 01		

Project: Expansion of MS Ingots/Billets and TMT Bars, Jaipur	
	Project Summary
Promoter: Amar Pratap Steel (P) Ltd.	

1.7 PROJECT BENEFITS

The PP proposes the following permanent structures within a 10.0 km periphery of the project. On the basis of the preliminary site visit, the proposed infrastructures are as follows:

- The proposed expansion project aims to provide health camps and access treatment programmes
- ✓ Facility for village schools including classroom/toilet construction, ceiling fans/coolers or books for school library.
- ✓ There will be social benefits from the proposed expansion project.

The underlying benefits through the proposed project are:

- ✓ The proposed expansion project will contribute to gains in national employment and in the gross domestic product.
- The organization will establish, implement & maintain Occupational health & safety objectives as per norms, at relevant functions & levels within the organization.

1.8 ENVIRONMENT MANAGEMENT PLAN DURING OPERATION PHASE

Table 1.6Environment Management Plan

	Tal	ble 1.6Enviror								
Particulars			Miti	gation Me	asures					
Air Environment	Storage of coal in covered area.									
	PUC certified vehicles are being/will be used.									
	 The flue gas outlet will be designed to maintain the PM below 30 mg/Nm³. 									
Water Environment	Domestic Waste water will be treated in STP.									
	• R	 Rain water harvesting structure will be installed in the unit. 								
C 10 1 117 -4-	Solid Waste Generation									
Solid Waste	S.	Particulars	Unit	Existing	Proposed	Fotal	Mode of Disposal			
	1.	Domestic solid waste	Kg/day	18	5	23	disposed off solid			

		Page
(A)	Gaurang Environmental Solutions Pvt. Ltd.	Rev No. 01
2	Report Ref: GESPL_472/23-24 /Draft EIA/014	Key 100. 01

Project: Expansion o				d TMT	Bars	, Jai	pur				
Promoter: Amar Pra	tap Ste	eel (F	P) Ltd.						I	Proje	ect Summary
		2	Slag		T/da	у	3	6		9	waste dump sites Used for
	3 Coal ash			Kg/day		3	1	1 14		road filling Used for road filling	
		_						rdous Was	te		ımmg
*		Do	rticulars	G .		1	lazard	ous Waste		-	
		га	ruculars	Cate	gory					Management	
				_		Existing		Proposed	oposed Total		
		Used/ Spent oil		5.	5.1		0.01 KL/ zear	-	0.0 KL/y		Authorized Recyclers
Noise Pollution	33% of total project area will be under green cover.										
	 Acoustic dampeners and insulators will be provided in the foundation and interiors respectively. Earmuffs/earplugs will be provided to all the workers deployed at high noise generating sources. Acoustically insulated cubicles will be provided 										
×	to operators working near high noise generation sources.										
	Effective preventive maintenance and vibration measurement of all										
	rotating equipment's will be done which will help in improvising the plant life and reduce the noise.										

1.9 CONCLUSIONS

It is predicted that socio-economic impact due to this project will positively increase the employment opportunities for local inhabitants. There are no resettlement and rehabilitation issues involved in this project. The project infrastructures will be of use to people of the area. The contribution to the revenue of the State Govt. will be put in public welfare and augment growth. The entire project area is devoid of any endangered flora and fauna. Thus, proposed expansion project is not likely to affect the environment or adjacent ecosystem adversely.

	Gaurang Environmental Solutions Pvt. Ltd.	Page		
	Report Ref: GESPL_472/23-24 /Draft EIA/014	Rev No. 01		