

MEMBERS OF STATE EXPERT APPRAISAL COMMITTEE, BIHAR

PRESENTATION FOR ENVIRONMENTAL CLEARANCE

Production capacity of MS Billet/ingot- 28,880 MT per year, MS section Bar, Flat, Rod Square- 28,850 MT per year, Slag Crusher- 3900 TPA & Electro Forged Grating -9200 MT/ Year at Mauza- Sikandarpur, Village- Nasriganj , Block Danapur, Patna.



**TOR Letter: F. No. SIA/3(a)/2436/2023
dated 07-07-2023**

**TOR Amendment Letter No. and Date:
F. No. SIA/3(a)/2436/2023 dated 12-
01-2024**

APPLICANT :

**M/s Bhola Ram Steel Pvt. Ltd.
Dadi Maa Biscut Factory More,
Nasriganj, Danapur, Patna-
800012**

ENVIRONMENT CONSULTANT:

**Rian Enviro Private Limited
Address:- 202 & 402, Mangal Market,
Raja Bajar, Sheikhpura, Patna, Bihar-
800014
Email: info@rianenviro.in
Mob: 9716173106**

THE PROJECT BRIEF

Name of the project: Proposal is to obtain Environmental Clearance for the production of MS Billet/ingot 28880 MT per year and, MS section (Bar, Flat, Rod Square, 28850 MT per year by M/s Bhola Ram Steels Private Limited.

- M/s Bhola Ram Steel Private Limited is an existing secondary unit at Mauza- Sikandarpur, Nasriganj, Danapur, and District Patna 800012.
- The Company has already obtained the CTE Vide Memo No. 370 dated 02-03-2019 for the expansion of the project & CTO Vide Memo No. 1098 dated 22-06-2023

❑ **MS Billet/ Ingot 11650 MT/year to 28880 MT/year**

❑ **M.S Section 14150 MT/year to 28850 MT/year**

Ground water NOC is obtained for 50 KLD vide NOC no -CGWA/NOC/IND/ORIG/2021/10955 dated : 08/01/2021

- Area of the Plant: **2.59 ha (6.405 Acres)**. Which is owned by the project proponent.
- Estimated cost for the proposed Project Cost is estimated as Rs. 12.0 Crores

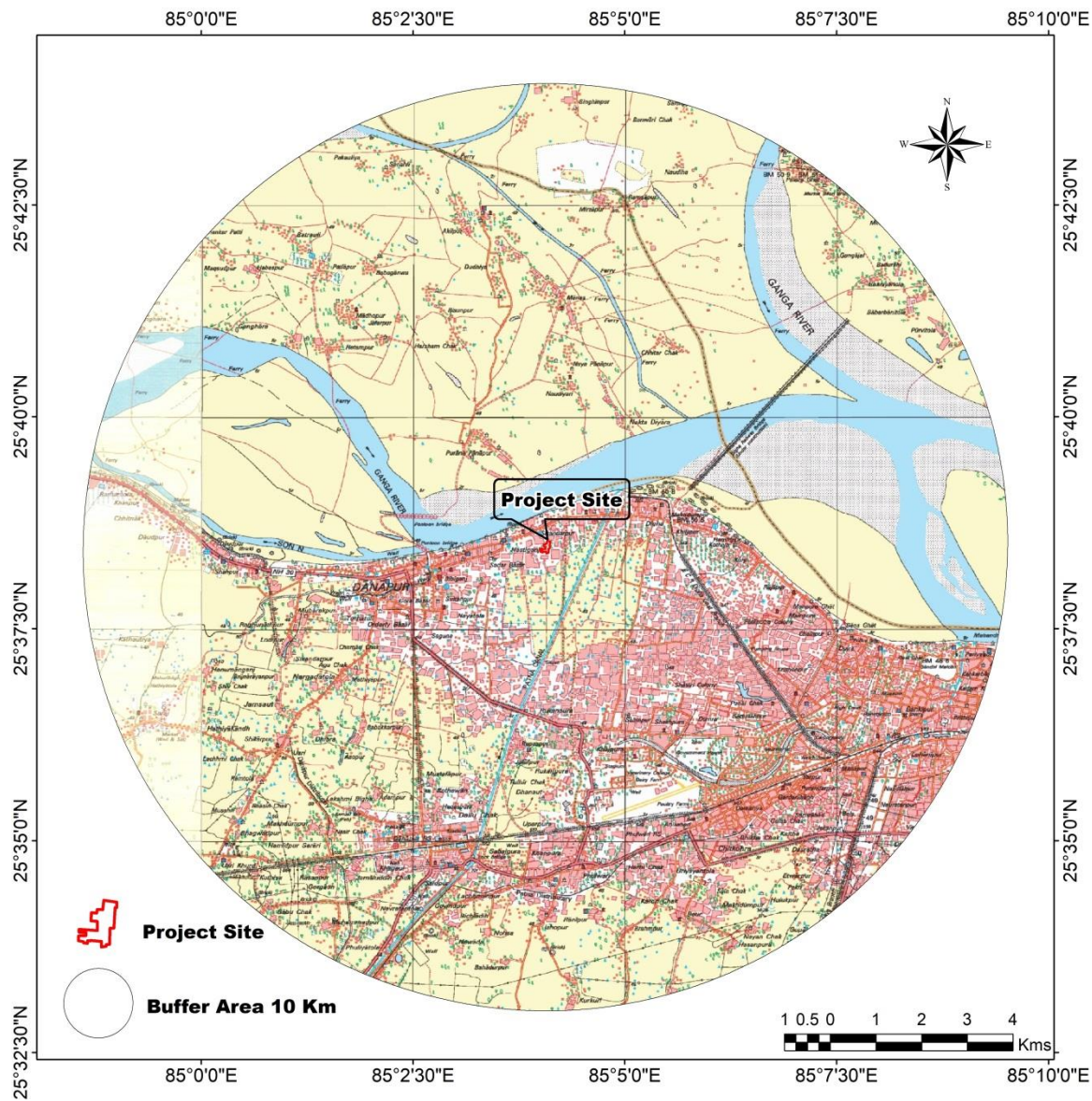
➤ **Details of TOR Granted:**

- 1. TOR Letter: F. No. SIA/3(a)/2436/2023 dated 07-07-2023
- 2. TOR Amendment Letter No. and Date: F. No. SIA/3(a)/2436/2023 dated 12-01-2024

DETAILS OF CONFIGURATIONS

Details of Configurations					
S.no	Plant/ Equipment/ Facility	Existing Configuration	Proposed Configuration	Final configuration after Amendment	Remarks if Any
1	Induction Furnace	1x5 Ton	1x10 Ton	1x10 Ton	Replacement of existing 1x5 Ton IF by 1x10 Ton IF
2	Rolling Mill	14150 MT/Year MS Section	28850 MT/Year MS Section MS Flat, Bar Rod, Square	28850 MT/Year MS Section MS Flat, Bar Rod, Square	Modernization of existing rolling mill
3	Electro Forged Grating	9200 MT/Year	-	9200 MT/Year	
4	Slag Crusher	1500 TPA	2400 TPA	3900 TPA	

KEY PLAN

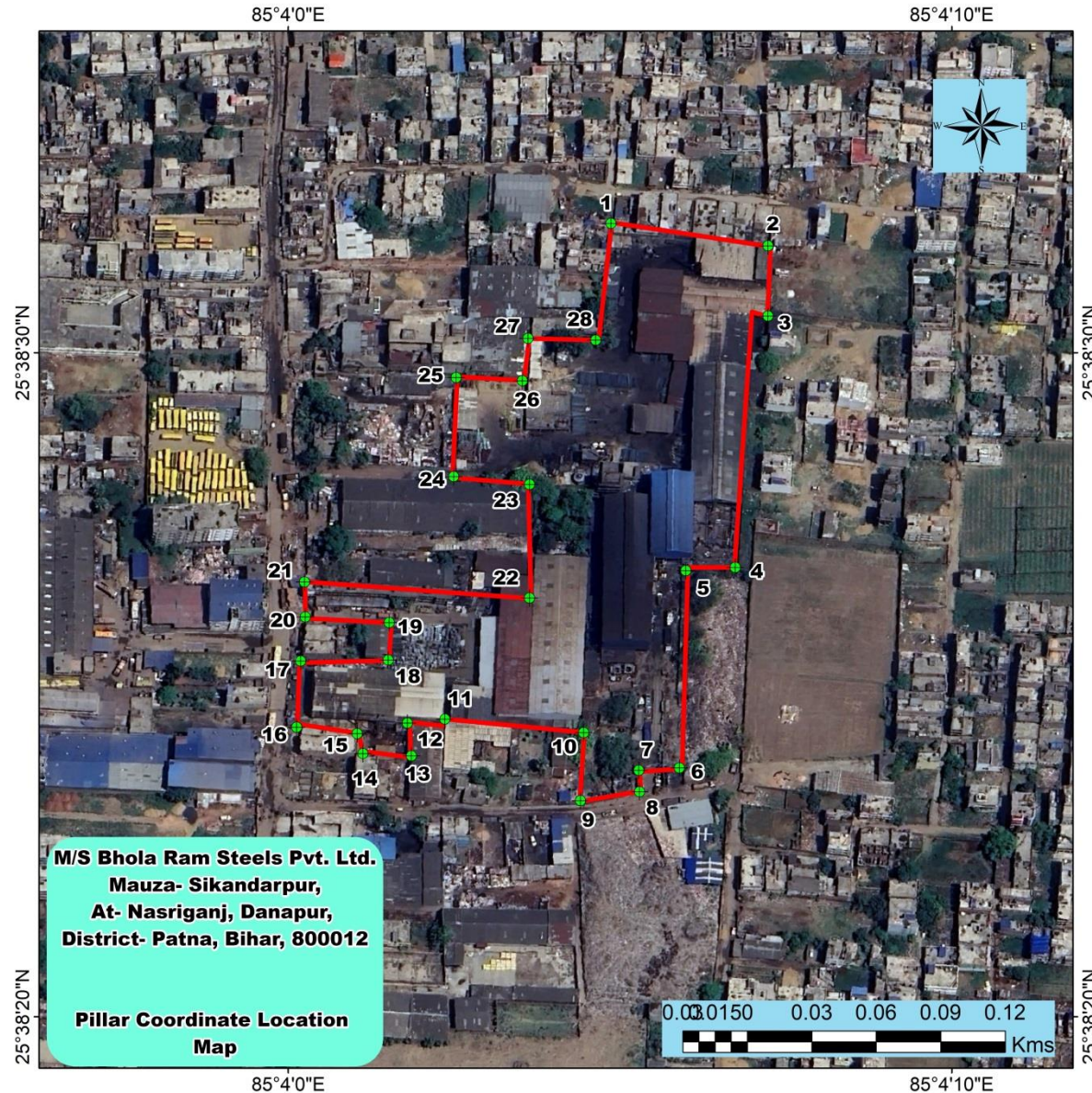
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M/S Bhola Ram Steels Pvt. Ltd.
Mauza- Sikandarpur,
At- Nasriganj,
Danapur, District- Patna,
Bihar, 800012

Toposheet No - G45M14,G45N2

Location Map

GOOGLE IMAGE OF THE SITE



Project Site

Legend



Pillar Point

S.No	Latitude	Longitude
1	25° 38' 31.948" N	85° 4' 4.864" E
2	25° 38' 31.611" N	85° 4' 7.232" E
3	25° 38' 30.553" N	85° 4' 7.232" E
4	25° 38' 26.766" N	85° 4' 6.740" E
5	25° 38' 26.718" N	85° 4' 5.994" E
6	25° 38' 23.748" N	85° 4' 5.898" E
7	25° 38' 23.712" N	85° 4' 5.285" E
8	25° 38' 23.388" N	85° 4' 5.297" E
9	25° 38' 23.255" N	85° 4' 4.407" E
10	25° 38' 24.277" N	85° 4' 4.455" E
11	25° 38' 24.482" N	85° 4' 2.363" E
12	25° 38' 24.421" N	85° 4' 1.798" E
13	25° 38' 23.929" N	85° 4' 1.858" E
14	25° 38' 23.965" N	85° 4' 1.125" E
15	25° 38' 24.265" N	85° 4' 1.041" E
16	25° 38' 24.361" N	85° 4' 0.127" E
17	25° 38' 25.359" N	85° 4' 0.187" E
18	25° 38' 25.371" N	85° 4' 1.510" E
19	25° 38' 25.936" N	85° 4' 1.522" E
20	25° 38' 26.021" N	85° 4' 0.259" E
21	25° 38' 26.550" N	85° 4' 0.247" E
22	25° 38' 26.309" N	85° 4' 3.638" E
23	25° 38' 28.016" N	85° 4' 3.638" E
24	25° 38' 28.137" N	85° 4' 2.495" E
25	25° 38' 29.627" N	85° 4' 2.532" E
26	25° 38' 29.579" N	85° 4' 3.529" E
27	25° 38' 30.216" N	85° 4' 3.614" E
28	25° 38' 30.192" N	85° 4' 4.636" E

THE PROJECT BRIEF

- The project activity is listed at sl.no. 3(a), Metallurgical Industry (Ferrous & Non-ferrous), under Category 'B', as per the EIA Notification, 2006.
- Proposed plan will be done on the an area of **2.59 ha (6.405 Acres)**. Which is owned by the project proponent.
- Estimated cost for the proposed Project Cost is estimated as Rs. 12.0 Crores.
- The Details of the Khata No. and Plot No. of the project site is shown in subsequent slide.

KHATA/PLOT NO. DETAILS

J67110BR1996PTC007152
AN ISO 9001:2008 COMPANY



Bhola Ram Steels Pvt. Ltd.

Works : Nasriganj, Danapur, Patna - 800 012, Ph.: 09308999073-74
Corporate Office : 404, N.P. Centre, New Dak Bungalow Road, Patna - 800 001
Ph. : 0612-2216307, Telefax : 0612-2216012
E-mail : enquiry@bholaramsteels.com, Website : www.bholaramsteels.com



LAND DEED DETAILS

SL.NO.	DEED NO.	DATE	THANA NO.	TAUZI NO.	KHATA NO.	KHESRA NO.	AREA
1	6209	26.09.2008	17	5854	174	414	3 KATHA
2	1198	21.02.2008	17	5854	137	416	1038.50 sqr.ft
3	5945	11.09.2008	17	5854	174	414,415	1 Katha
4	1552	06.03.2008	17	5854	174	416	7.246 Decimal
5	814	06.02.2008	17	5854	137	416	1038.50 sqr.ft
6	360	18.01.2008	17	5854	137	416	9.33 Decimal
7	7872	26.12.2007	17	5854	137	416	1038. 50 Sqr.ft
8	7847	26.12.2007	17	5854	174	414, 415	17 Katha
9	7871	26.12.2007	17	5854	134, 167	424, 425	15 Katha 10 Dhur
10	7887	27.12.2007	17	5854	133, 137	416,430,431	1 Acre 21.5 Dec.
11	1154	12.11.1997	17	5854	155,161,175	422,428,429	12 Katha 15 Dhur, 6 Katha 9 Dhur 16 Dhurki
12	1144	12.11.1997	17	5854	175	429	4 Katha 6 Dhur 8 Dhurhi
13	1143	11.11.1997	17	5854	175	529	4 KATHA 6 Dhur 8 Dhurki
14	5381	03.12.1997	17	5854	161	428	1 Katha 10 Dhur
15	2434	29.12.1997	17	5854	161	428	16 Dhur
16	5371	03.12.1997	17	5854	161	428	1 Katha
17	1971	03.12.1997	17	5855	161	428,429	1 Katha 6 Dhur 13 Dhurki
18	2433	03.12.1997	17	5854	161	428	1 Katha 4 Dhur
19	5643	03.12.1997	17	5855	161,175	428,429	1 Katha 12 Dhur 1 Dhurki
20	1642	03.12.1997	17	5854	161	428	1 Katha 12.5 Dhur
21	1570	03.12.1997	17	5855	161,175	428,429	1 Katha 10 Dhur
22		30.04.1997	17	5855	161,175	428,429	14 Dhur
23		07.11.1997	17		196.207	350.351	1 Bigha 7 Katha 16 Dhurki
24		07.11.1997	17		207	351,352,423	1 Bigha 5 Katha 2 Dhur 8 Dhurki
25	9417	10.08.2016	17		129,137,207	418,419,421, 423	20 Katha 11 Dhurki

THE PROJECT BRIEF

Sl. No	Plant Facilities	Existing Installed Units and Capacity	Units and Capacity After Expansion
		Unit Capacity	Unit/ Capacity
1.	Induction Furnace With CCM Continuous Casting Machine	1x5T 11650 MT/year MS Ingot	Replacement of existing 1x5T by 1x10T 28880MT/ Year MS Ingot/ Billet
2.	Rolling Mill	14150 MT/year M.S Section M.S Flat, Bar Rod, Square	Modernization of Existing Rolling Mill 28850 MT/year M.S Section M.S Flat, Bar Rod, Square
4.	Slag Crusher	1500 TPA	3900 TPA
5.	Electro Forged Grating	9200 MT/ Year	-

THE PROJECT BRIEF

Sl no	Particulars	Existing	Proposed after expansion
6	Raw Material Sponge iron/ Iron Scrap	44 TPD	112 TPD
7	Ingots/billets (Only for rolling and other product)	39 TPD	96 TPD
8	Manpower requirement	~46	~70
9	Water Requirement (Industrial activity)	~20m ³ /day	~46.5 m ³ /day
10	Domestic water requirement	~2.0 m ³ /day	~3.5 m ³ /day
11	Domestic wastewater generation	~1.6 m ³ /day	~2.8 m ³ /day
12	Slag reject (reusable material)	~ 5.0TPD	~Slag: 13 TPD
13	Fuel	HSD- DG sets, Electricity- Induction furnace	

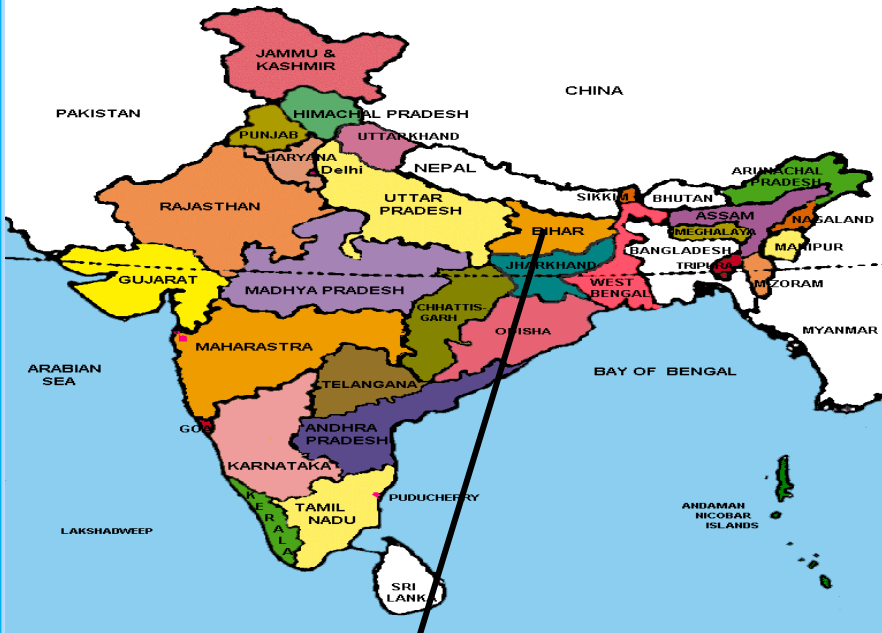
PROJECT LOCATION

Features	Details
Village, District & State	Mauza- Sikandarpur, Village- Nasriganj, Block Danapur, District Patna, State Bihar.
Total Area	2.59 ha (6.405 Acres).
SOI Topo-sheet No.	G45M14, G45N2
GPS Coordinates	Latitude: 25°38'27.65"N Longitude: 85° 4'5.00"E
Land use of the proposed project	Industrial
Height above MSL	76 meters
Nearest Highway	Digha- AIIMS Elevated Road Approx. 1.6 Km towards East Bankipur- Danapur Road Approx. 0.82 Km towards
Nearest Railway Station	Paltiputra Railway Station, Approx. 2.0 Km towards South.

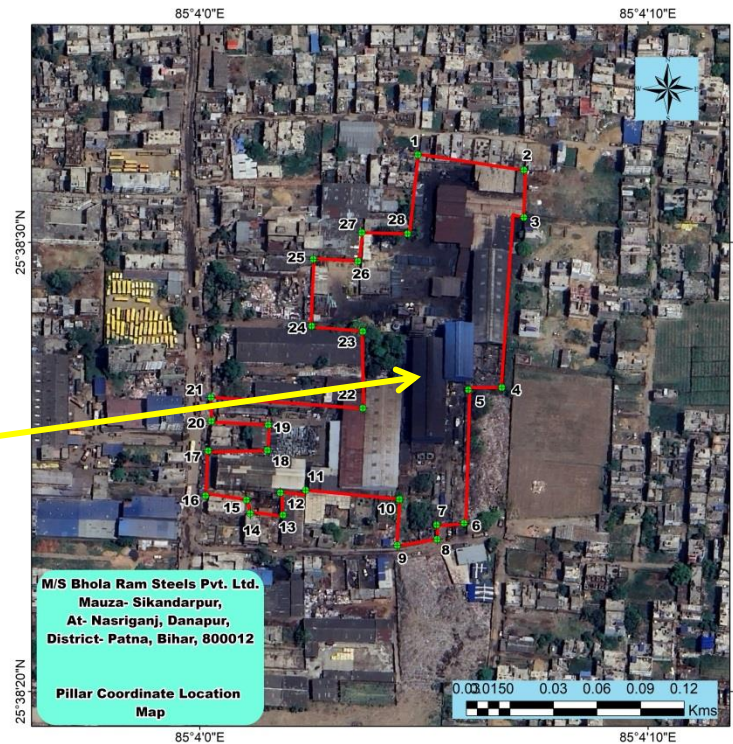
ENVIRONMENTAL SENSIVITY OF THE PROJECT

Features	Details
National Park/Wild life Sanctuary	Not present within 15 km from the project site
Religious Place	Shiv Mandir Approx. (0.76 Km), West
Nearest River	Ganga River Approx. 0.73 Km towards North
Nearest Habitation	Nasriganj, Approx. 0.70 Km towards NW
Nearest Airport	Patna Airport, Approx. 5.4 Km towards SE

LOCATION MAP



Project Site



Project Site

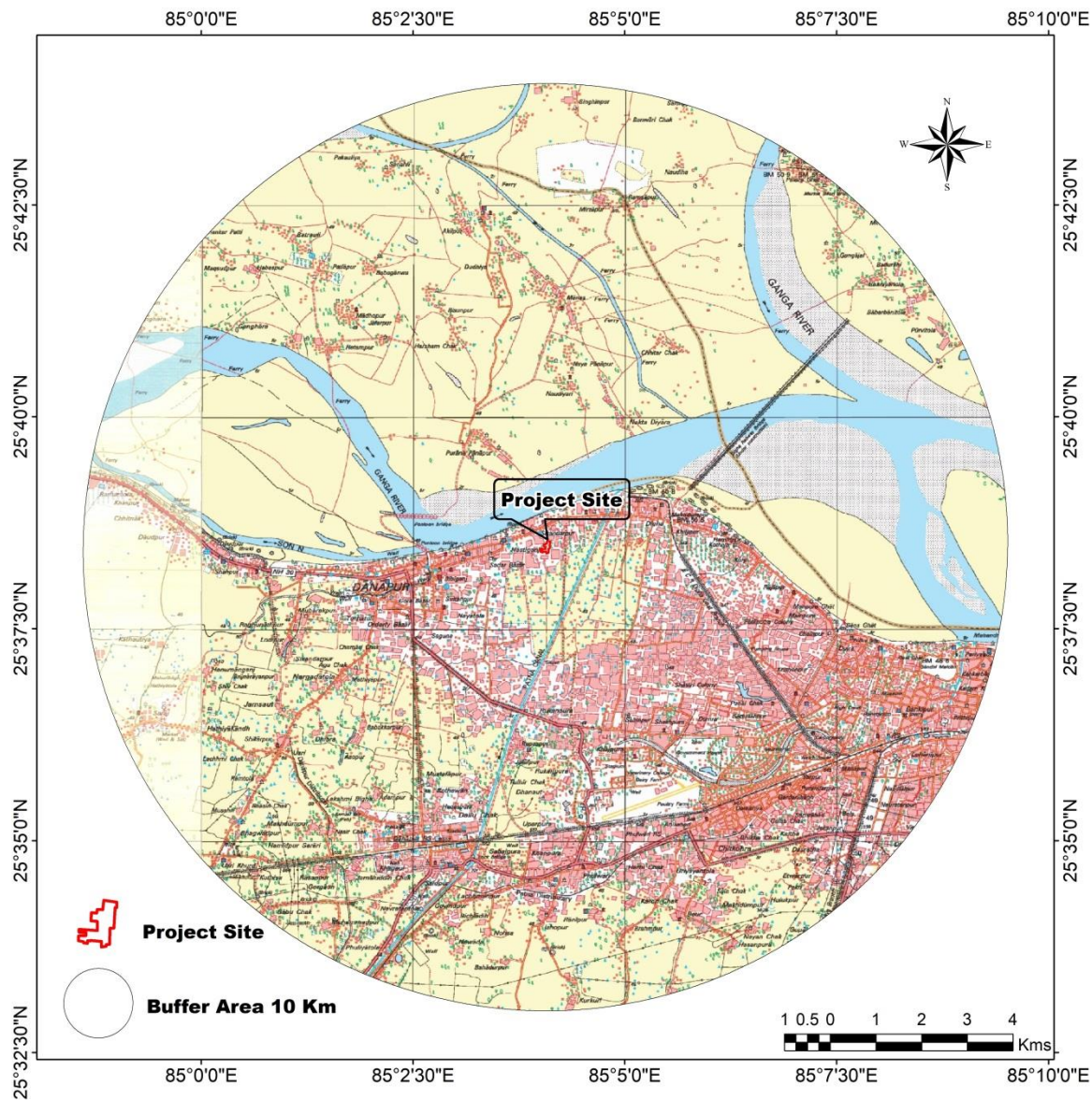
Legend

Project Site (Red outline)

Pillar Point (Green dot)

S.No	Latitude	Longitude
1	25° 38' 31.948" N	85° 4' 4.864" E
2	25° 38' 31.611" N	85° 4' 7.232" E
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KEY PLAN

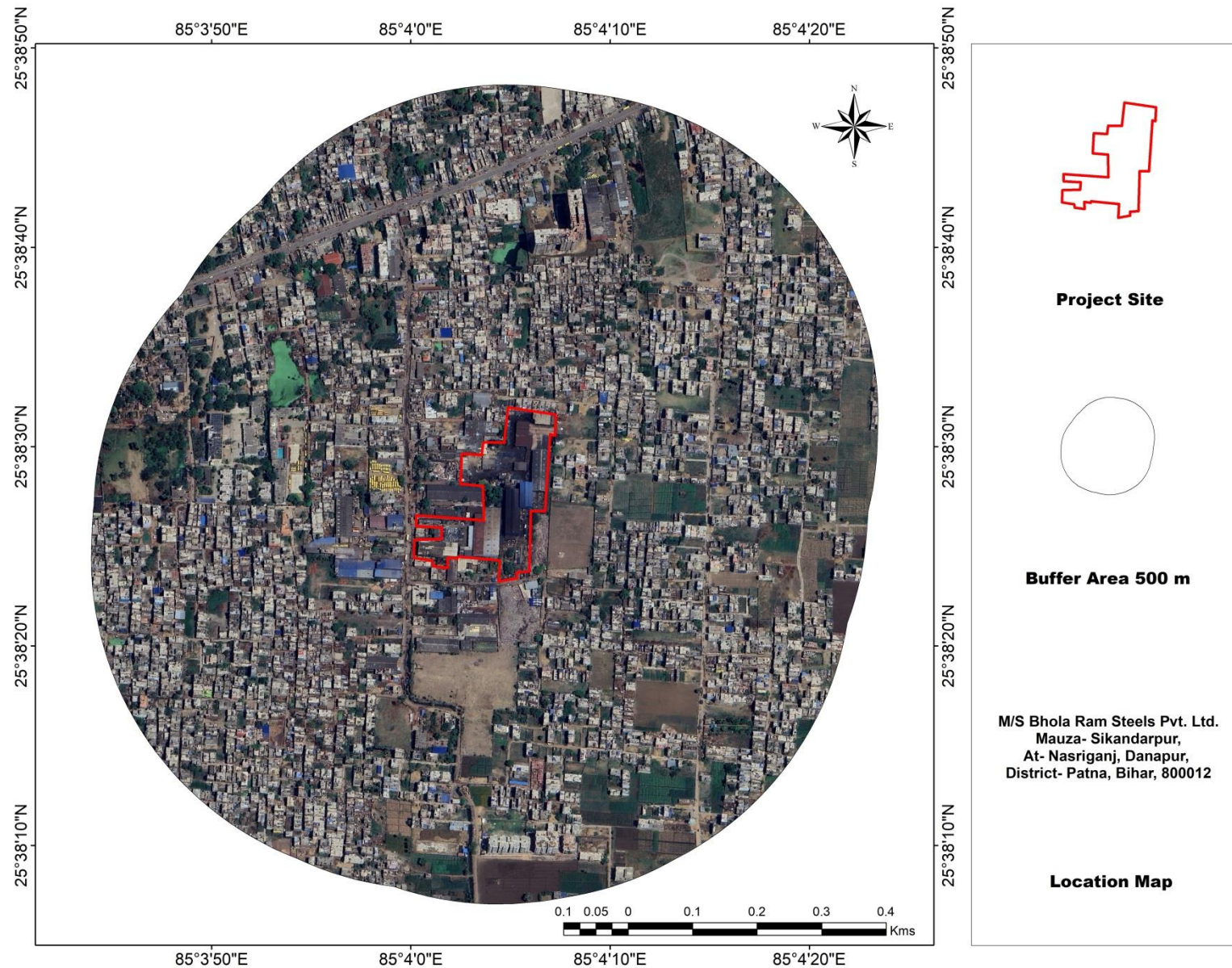
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M/S Bhola Ram Steels Pvt. Ltd.
Mauza- Sikandarpur,
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Danapur, District- Patna,
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Toposheet No - G45M14,G45N2

Location Map

500M BUFFER MAP



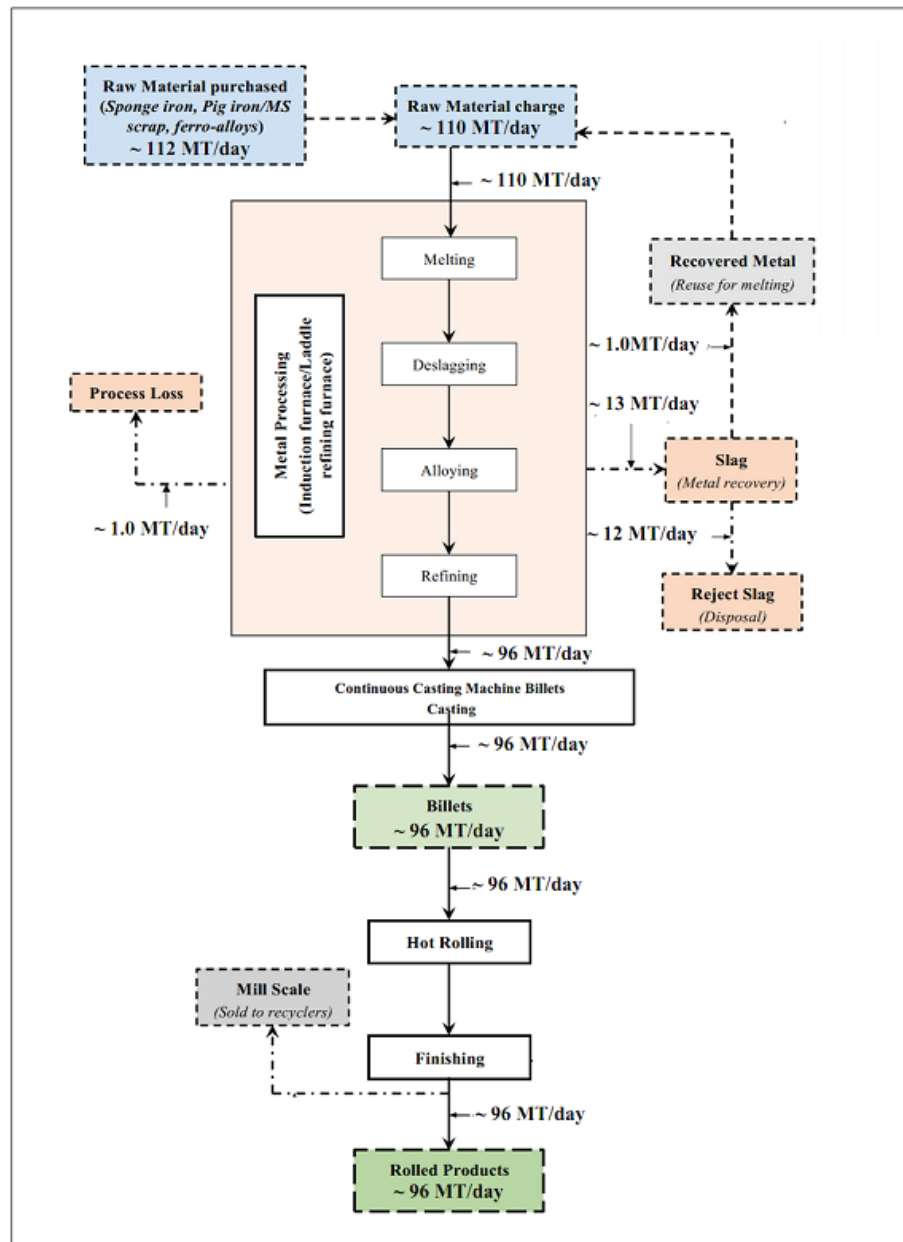
LAND REQUIREMENT

- Total area of the plant is 2.59 ha (6.405 Acres)
- Breakup of land use for the proposed expansion is as follows:

SL No	TYPE OF USE	AREA (sq. mt)	%
1	Production & Allied facilities	12,182.6	47.0%
2	Entrance, Roads, Pavements, vacant area etc	5,184.08	20.0%
3	Green Belt	8,553.73	33.0%
	TOTAL	25920.41	100%

- Approx. 8,553.73 sqm of land within the site is having existing tree plantation which is considered as green belt for the proposed project.
- All the existing trees will be retained at site and no tree will be cut without having permission from the competent authority.

PROCESS FLOW DIAGRAM



RAW MATERIAL REQUIREMENT

Raw Materials	Total Raw materials required	
	Existing	After Expansion
MS Ingot/ Billet (Total Production 28880 MT /Year)		
Sponge Iron	44 TPD	112TPD
Rolling Mill – M.S Flat, Bar Rod, Square (Total production: 28850MT/year)		
Billets/M.S. Billets	40TPD	96 TPD

PROJECT REQUIREMENT

Manpower Requirement

It is estimated that the total requirement of manpower after implementation of project is around 70 persons which will include Sr. Executives, Managers, Administrators, Engineers, Supervisors and Skilled Technicians.

Power Requirement

	Existing (KVA)	Proposed (KVA)	Total (KVA)
Power Requirement	~3441	~2059	~5500

Source of power is SBPDCL

For Emergency Power : The plant has existing DG Sets of 1x200 kVA, additional DG of 1x 300 KVA will be installed at site.

AIR POLLUTION CONTROL DETAILS

Name of Units	Name of APCD	Stack Height (mtr)	Emission
Induction Furnace	Fume extraction with Bag filter)	30	<50mg/Nm ³
Rolling Mill	Dust extraction with Bag filter)	30	<50mg/Nm ³
Slag crushing	Dust extraction system	30	<100mg/Nm ³
DG Set	Stack	10	<150 mg/Nm ³

SOLID WASTE MANAGEMENT

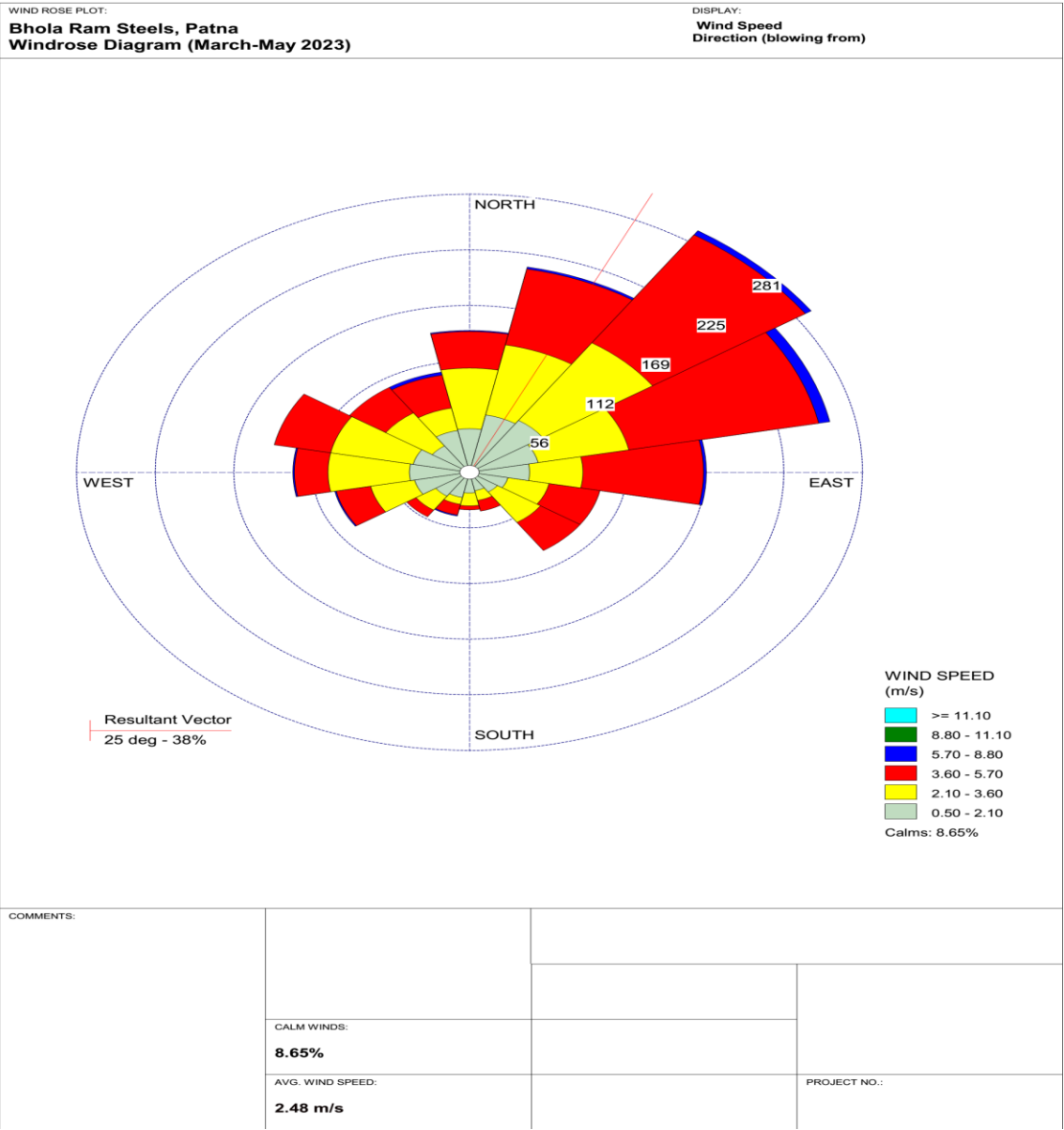
Units	Solid Wastes	Qty In TPA	Disposal practice
Induction Furnace	Slag	~9,500	In-house metal recovery in slag crusher and supplied outside for further reuse in construction work.
Bag Filter Dust from process	Dust from process	~2.0	Partly recycled (metal content). Rest supplied outside for further reuse in construction work and Low land filling
Rolling mill	End cuttings & Mill Scale	30 TPA	Recycled in-house along with scrap in the induction furnace.

Hazardous waste: There is no hazardous waste from the plant except for used oil (approx. 0.1 KL/Year) from equipment, which will be stored properly as per norms and is saleable to the registered recyclers in the market

SITE PHOTOGRAPHS

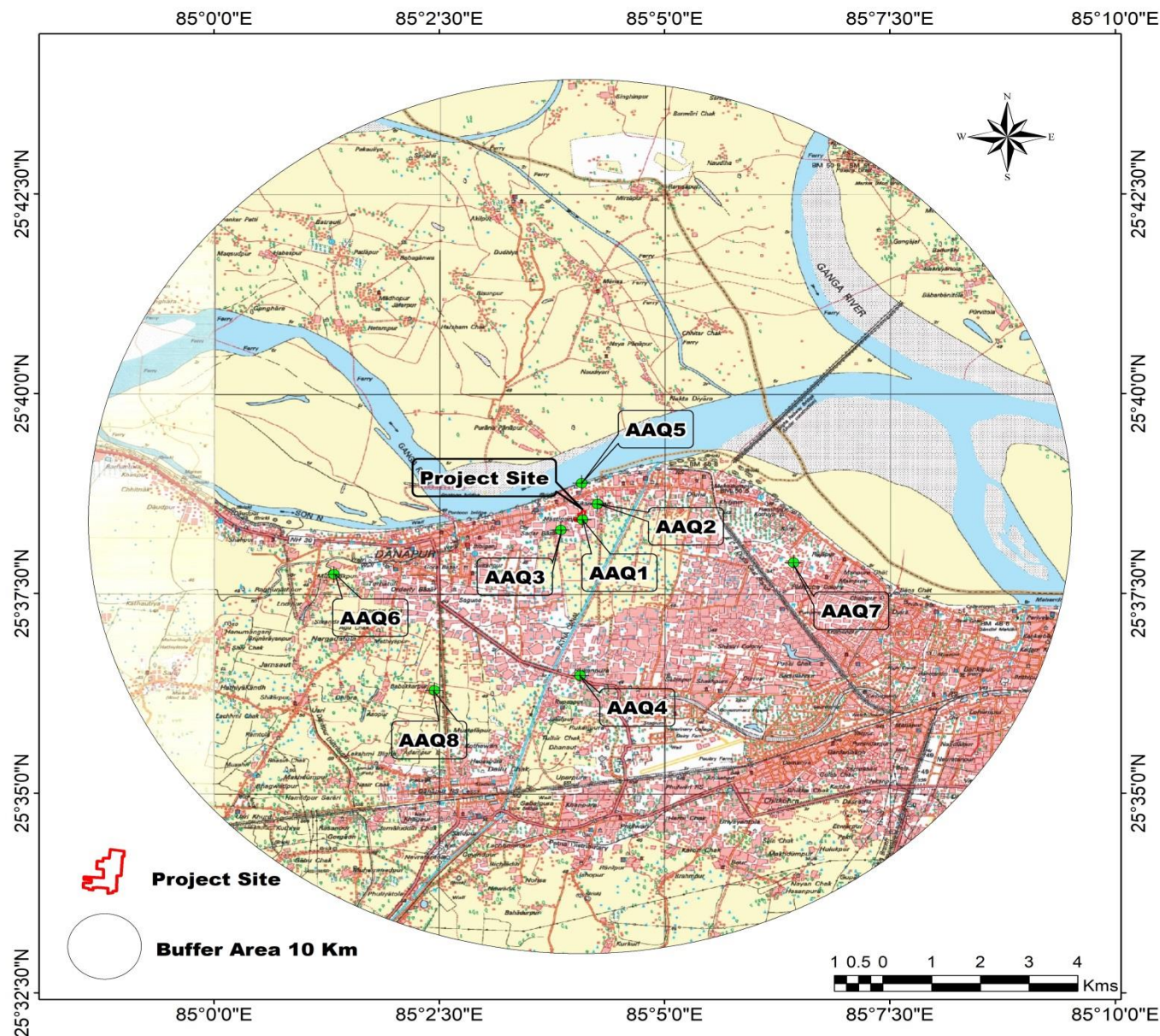


WINDROSE DIAGRAM



AAQ MONITORING LOCATIONS

S.No	Name	Distance & Direction from project site	Co-ordinates
AAQ1	Near Project Site,	--	25°38'25.18"N 85° 4'5.37"E
AAQ2	Mithila Colony	0.35 km, NE (Up-wind)	25°38'37.07"N 85° 4'15.33"E
AAQ3	Takiyapar, Danapur	0.47 Km WSW (Down-Wind)	25°38'17.56"N 85° 3'50.92"E
AAQ4	Rukanpura	3.60 Km South Cross Wind	25°36'28.25"N 85° 4'3.88"E
AAQ5	Nasriganj	0.70 Km North Cross Wind	25°38'52.68"N 85° 4'4.89"E
AAQ6	Hanuman Nagar, Danapur	4.80 Km WSW (Down-Wind)	25°37'44.26"N 85° 1'19.98"E
AAQ7	Patliputra Colony	4.05 KM ESE (Up-wind)	25°37'53.03"N 85° 6'26.01"E
AAQ8	Lekha nagar, Danapur	4.80Km SW Cross Wind	25°36'17.20"N 85° 2'26.89"E



CONVENTIONAL SYMBOLS

Express highway with toll, with bridge, with distance data		
Roads, established according to importance		
Roads, double carriageway, according to importance		
Unimproved road, Gen. track, Road-track with grass, Foot path		
Stations with track in built-upland, unimproved		
Damned, dammed or rock-filled, asphalt, Road		
River dry with water channel, with island & locks, Tidal river		
Buried road, Street, Swamp, Roads		
Wells, land, road, Well, Spring, Trench, perennial dry		
Embankment, road or rail, Trench, Broken ground		
Arrows, straight, curved or zigzag, with station, under road		
Arrows, straight, curved, double-lined, with distance data, di-		
Mineral line or tramway, Kinky, Cutting with level		
Contours with sub-features, Rocky slopes, Cliffs		
Sea bed contour (Tide), Shoal (Shallow bottom), (Shoalmarking)		
Towns or Villages (shaded), Mountain, Peak		
Arrows, straight, curved, double-lined, with distance data, di-		
Temple, Church, Mosque, Spring, Tomb, Graves		
Lighthouse, Lightship, Buoy, lighted, unlighted, Anchorage		
Light on tower, Grave, Grave, Stone		
Fishing, poultry, other, Plantation, Cane, Bamboo, Other trees		
Arrows, unlighted, unlighted, Surveyed line		
Boundary, international		
— state demarcated, international — district, subdivision, tribal or tribal, tract		
Boundaries, points, surveyed, unlighted		
Highly, irregularly situated, point, approximate		
Boundaries, points, survey, exact		
Rail, incline, overhead line		
Rail, incline or inspection lamp, Great line, Public station		
Crossed ground, Forest, reserved, protected		
Spaced names, administrative, locality or tribal		
Highway, Department, Veterinary, railway / Department		
Power line, electric, Tension		
Power line, with pylons, surveyed, with poles, unsurveyed		

Legend

-
- Air Monitoring Station

M/S Bhola Ram Steels Pvt. Ltd.
Mauza- Sikandarpur,
At- Nasriganj,
Danapur, District- Patna,
Bihar, 800012

Toposheet No - G45M14,G45N2

Air Monitoring Location Map

AAQ MONITORING RESULTS

Particulate Matter (PM₁₀)

The maximum and minimum concentrations for PM₁₀ were recorded as 260.8µg/m³ and 107.7µg/m³, respectively. The maximum concentration of PM₁₀ was recorded at the (AAQ8) Lekha Nagar Danapur and minimum concentration was observed at (AAQ2) Mithila Colony. The average concentrations range between 140.8µg/m³ to 218.1µg/m³. 98th percentile values for PM₁₀ during study period range between 164.1µg/m³ to 259.6µg/m³.

Fine Particulate Matter (PM_{2.5})

The maximum and minimum concentrations for PM_{2.5} were recorded as 168.3µg/m³ and 67.1µg/m³, respectively. The maximum concentration was recorded at (AAQ8) Lekha Nagar Danapur and the minimum concentration was recorded at (AAQ4) Rukanpura. The average concentrations range between 75.2µg/m³ to 120.2µg/m³ was recorded. 98th percentile values for PM_{2.5} during study period range between 89.1µg/m³ to 166.1µg/m³.

Nitrogen Oxide (NO₂)

The maximum and minimum NO₂ concentrations were recorded as 45.9µg/m³ and 23.2µg/m³. The maximum concentration was recorded at (AAQ8) Lekha Nagar Danapur and the minimum concentration was recorded at (AAQ3) Takiyapar Danapur. The average values for NO₂ were observed in the range between 25.7µg/m³ to 39.0µg/m³. 98th percentile values for NO₂ during study period range between 29.0µg/m³ to 45.4µg/m³.

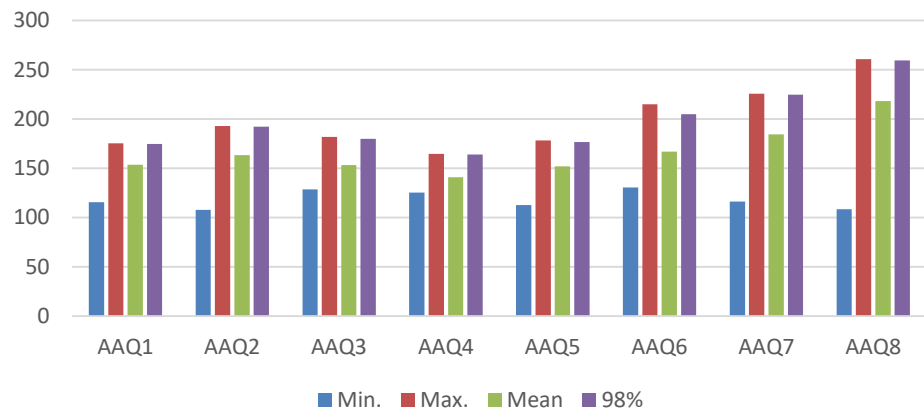
Sulphur Dioxide (SO₂)

The maximum and minimum SO₂ concentrations were recorded as 19.0µg/m³ and 9.6µg/m³. The maximum concentration was recorded at (AAQ4) Rukanpura and the minimum concentration was recorded at (AAQ6) Hanuman Nagar Danapur. The average values for SO₂ were observed in the range between 11.7µg/m³ to 15.3µg/m³. 98th percentile values for SO₂ during study period range between 14.2µg/m³ to 18.3µg/m³.

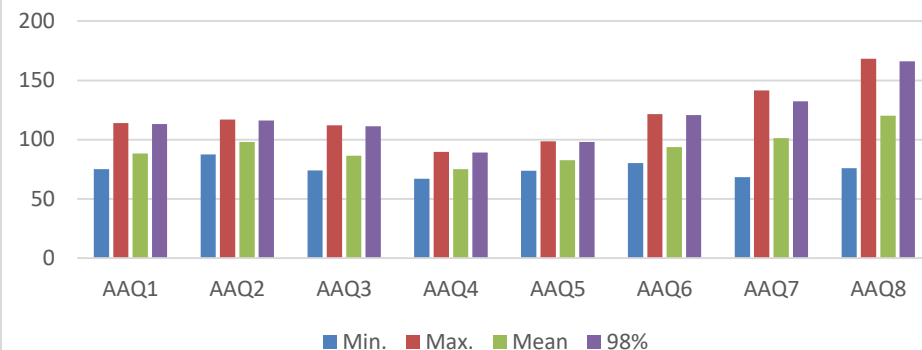
Carbon Monoxide (CO)

The maximum and minimum CO concentrations were recorded as 5.70mg/m³ and 0.72mg/m³. The maximum concentration was recorded at (AAQ3) Takiyapar Danapur and the minimum concentration was recorded at (AAQ6) Hanuman Nagar Danapur. The average values for CO were observed in the range between 1.53mg/m³ to 2.96mg/m³. 98th percentile values for CO during study period range between 2.59mg/m³ to 5.04 mg/m³.

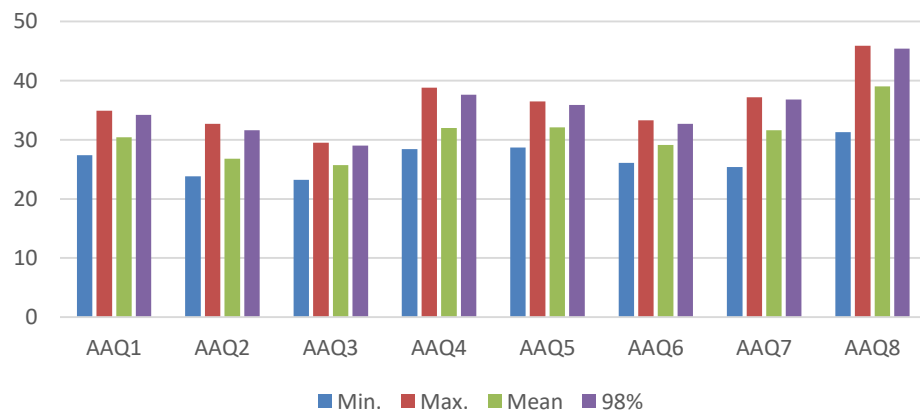
PM 10 VALUE DURING STUDY PERIOD



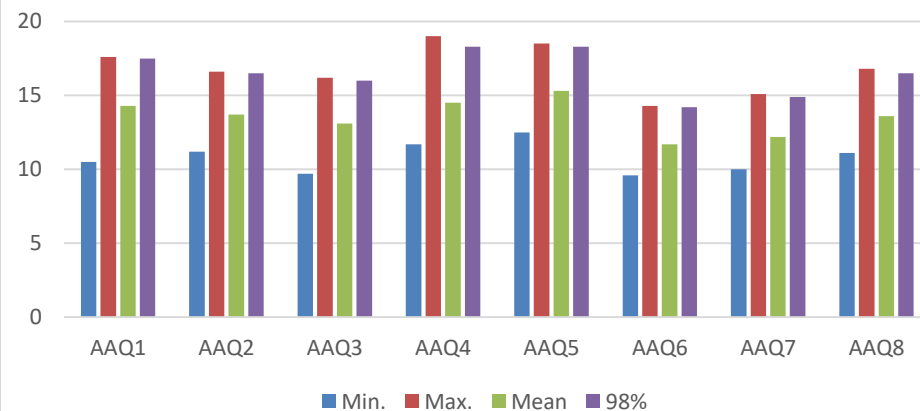
PM 2.5 VALUE DURING STUDY PERIOD



NO2 VALUE DURING STUDY PERIOD

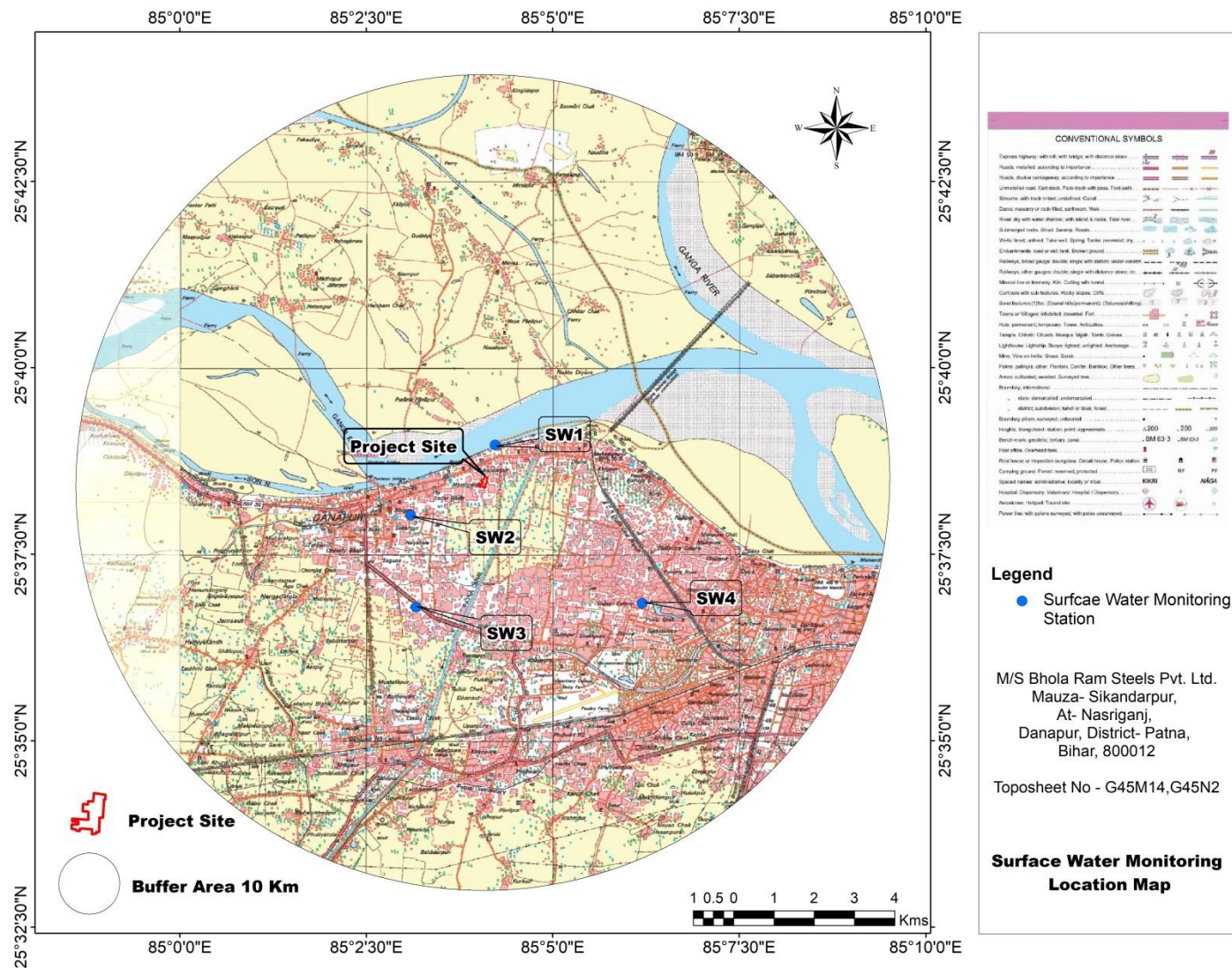


SO2 VALUE DURING STUDY PERIOD



SURFACE WATER MONITORING LOCATIONS

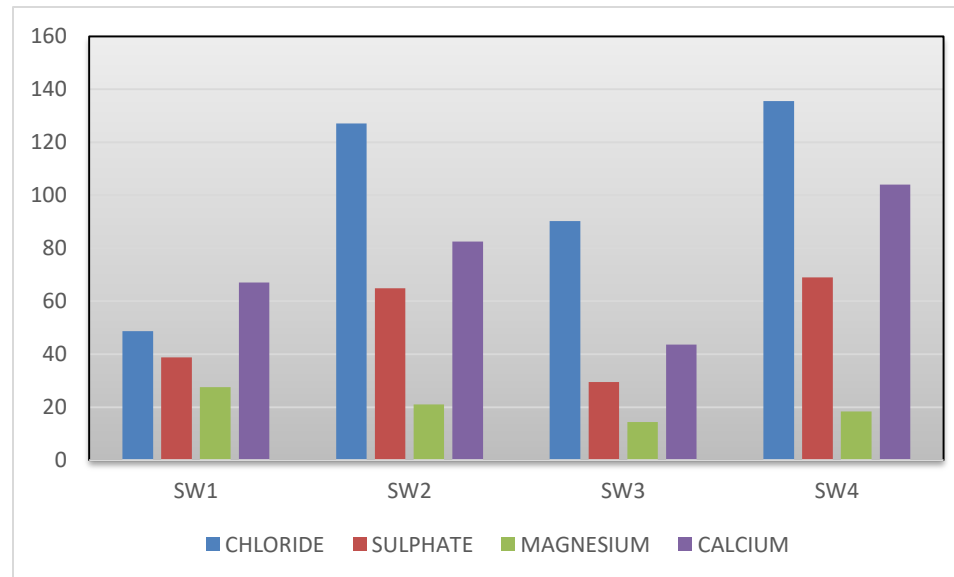
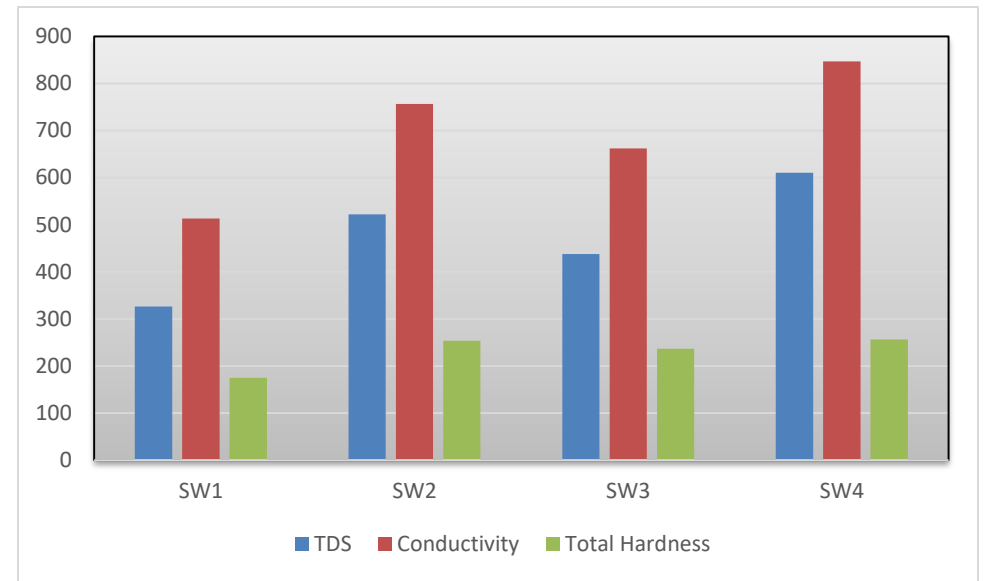
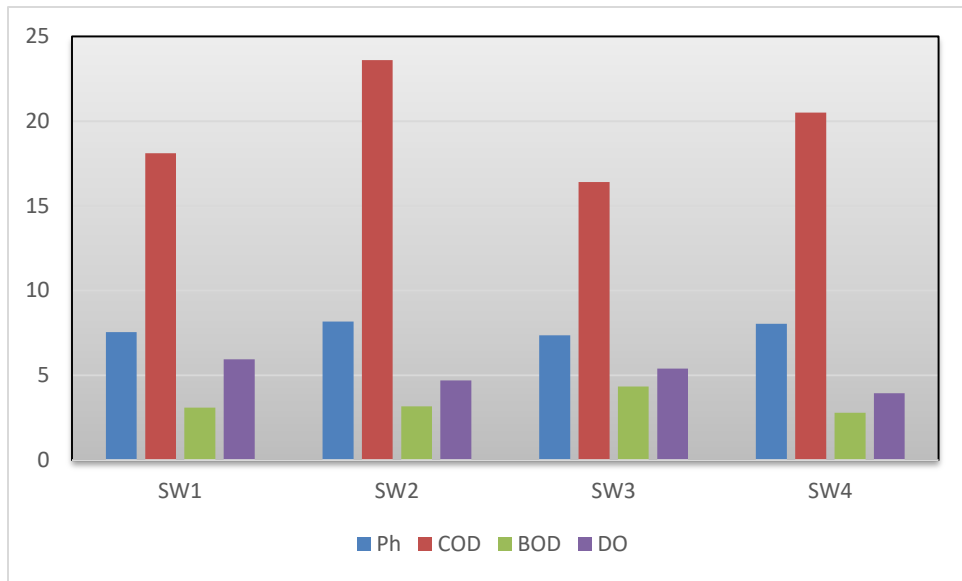
S. No.	Name	Distance & Direction from project site	Co-ordinates
SW1	Fakkar Mahto Ghat on Ganga River	0.90KM NNE	25°38'57.76"N 85° 4'13.64"E
SW2	Ram Nagar Colony	1.70KM WSW	25°38'1.23"N 85° 3'5.65"E
SW3	Priyadarshi Nagar, Kaliket Nagar	3.40 KM SW	25°36'47.25"N 85° 3'10.16"E
SW4	BSPHCL Energy Park, Patel Nagar	4.60 KM SE	25°36'50.46"N 85° 6'12.02"E



SURFACE WATER MONITORING RESULT

The baseline quality of water based on the results of the surface water quality monitoring within the study area, it is observed that,

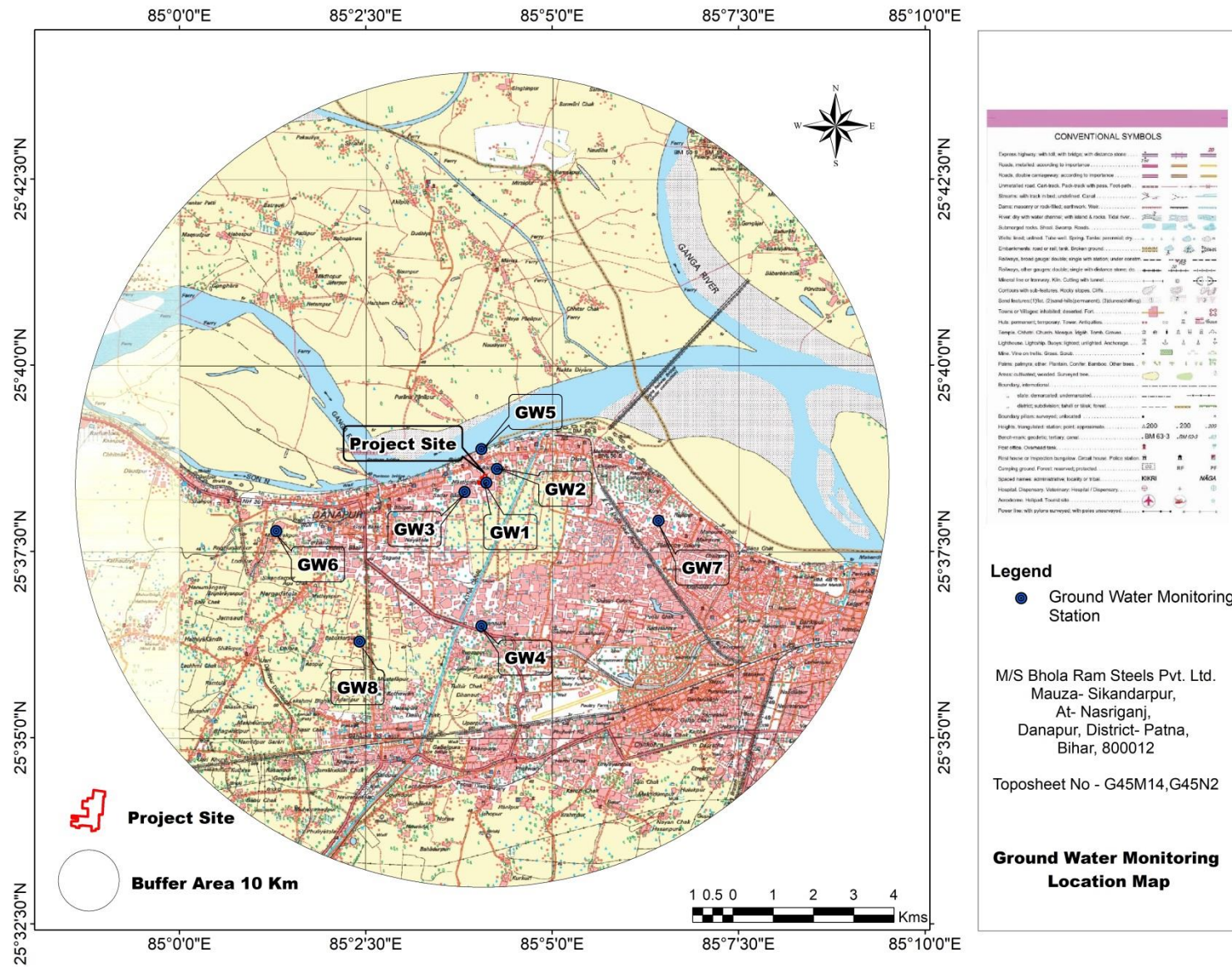
- pH was observed in the range of 7.37 – 8.17 with minimum at Pond (SW3) and maximum at (SW2) Ganga River (Upstream).
- TDS was observed in the range of 326.4 -610.4 mg/L with minimum at Pond (SW1) and maximum at Pond (SW4).
- COD was in the range of 16.4-23.6 mg/L with minimum at Pond (SW3) and maximum at Falgu River (SW2).
- BOD was in the range of 2.80-4.34 mg/L with minimum at River (SW4) and maximum at Punpun River (SW3).
- DO was in the range of 3.94-5.95 mg/L with minimum at BSPHCL Energy Park, Patel Nagar (SW4) and maximum at Fakkar Mahto Ghat on Ganga River (SW1).



GROUND WATER MONITORING LOCATIONS

S.No	Name	Distance & Direction from project site	Co-ordinates
GW1	Near Project Site,	--	25°38'25.18"N 85° 4'5.37"E
GW2	Mithila Colony	0.35 km, NE	25°38'37.07"N 85° 4'15.33"E
GW3	Takiyapar, Danapur	0.47 Km WSW	25°38'17.56"N 85° 3'50.92"E
GW4	Rukanpura	3.60 Km South	25°36'28.25"N 85° 4'3.88"E
GW5	Nasriganj	0.70 Km North	25°38'52.68"N 85° 4'4.89"E
GW6	Hanuman Nagar, Danapur	4.80 Km WSW	25°37'44.26"N 85° 1'19.98"E
GW7	Patliputra Colony	4.05 KM ESE	25°37'53.03"N 85° 6'26.01"E
GW8	Lekha nagar, Danapur	4.80Km SW	25°36'17.20"N 85° 2'26.89"E

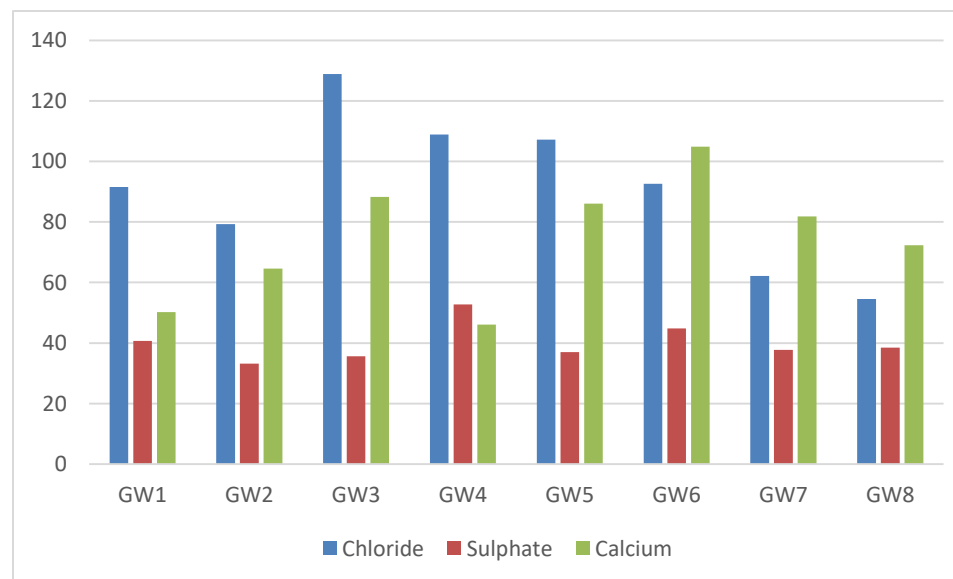
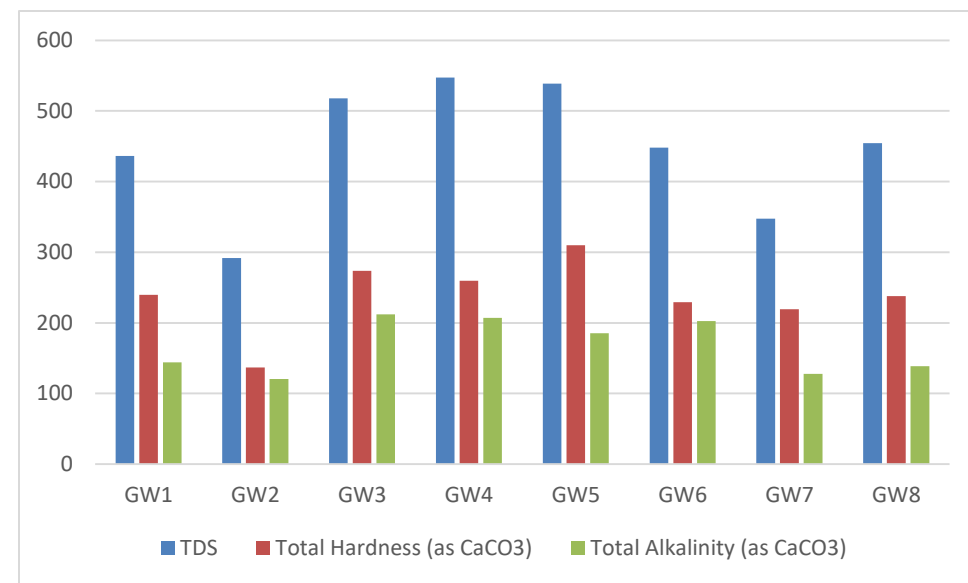
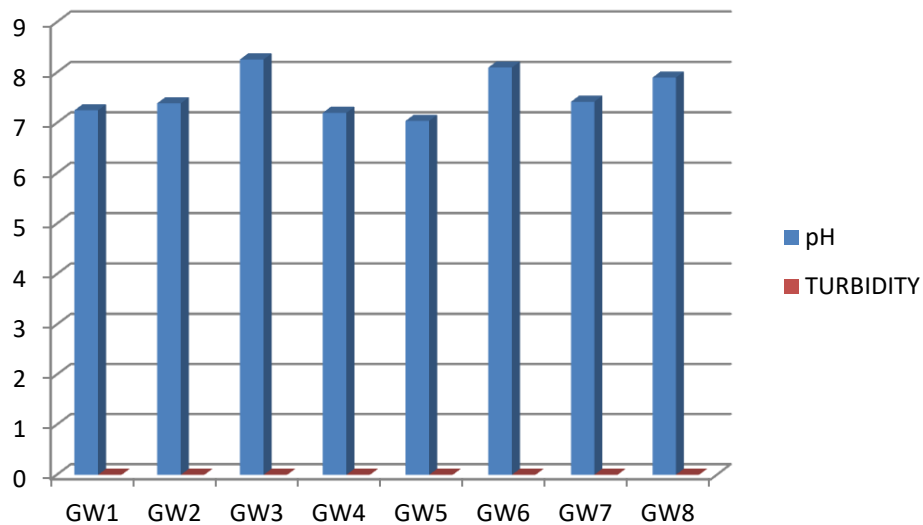
GROUND WATER MONITORING LOCATIONS



GROUND WATER MONITORING RESULT

Interpretation of Ground Water Quality

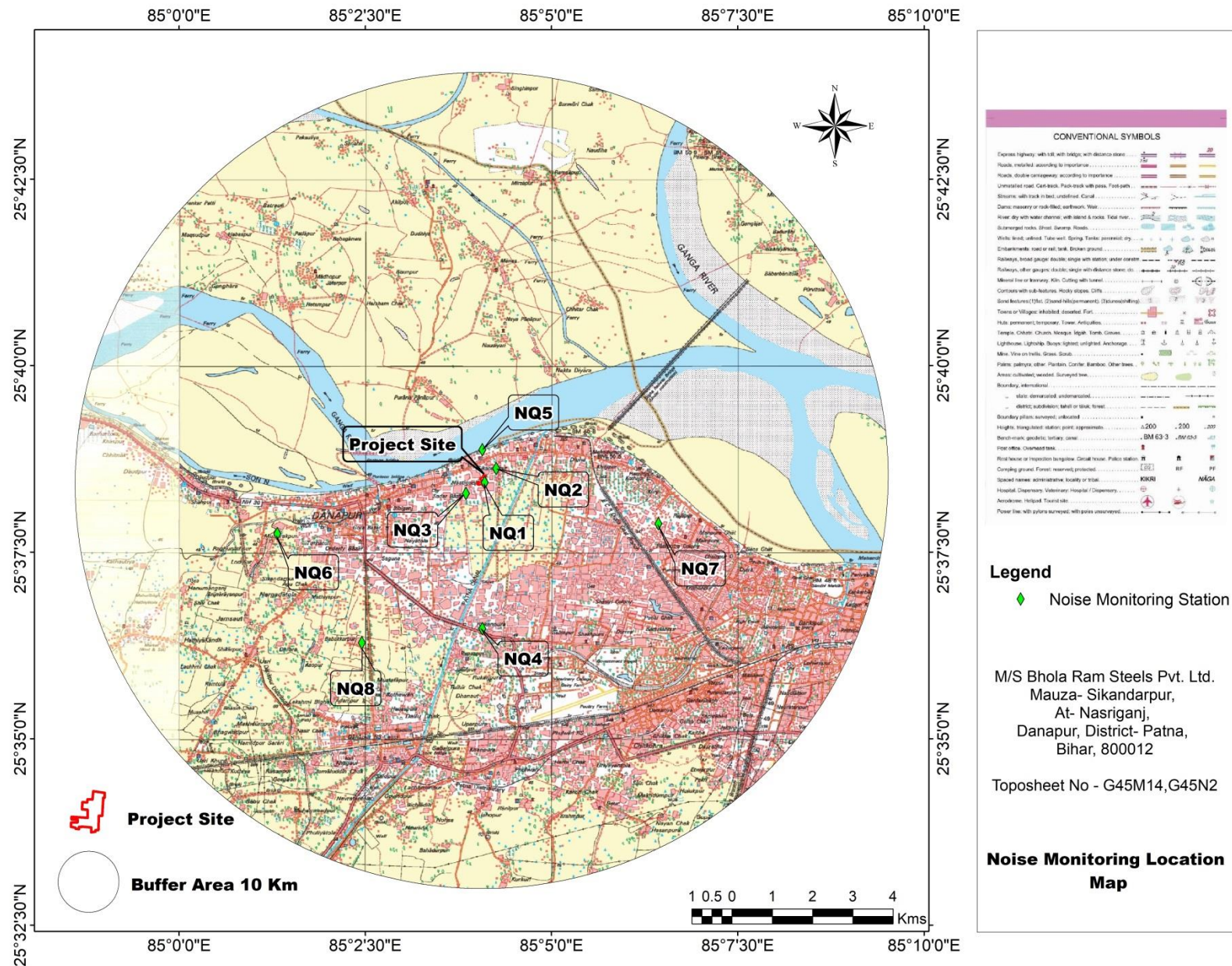
- All the samples were colourless meeting desirable norms (<5 Hazen).
- All the samples meet the desirable standards (pH ranges from 7.04 to 8.26).
- TDS in samples ranges from 291.6 mg/L to 547.1 mg/L. All the samples meet the permissible limit of 2000 mg/L.
- Total Hardness in the water ranges from 136.7 mg/L to 309.8 mg/L. All the samples meet the permissible limit of 600 mg/L.
- Calcium content in the water ranges from 46.1 mg/L to 104.9 mg/L all the samples meet the permissible limit of 200 mg/L.
- Magnesium content in the water ranges from 21.3 mg/L to 40.0 mg/L. All the samples meet the permissible limit of 100 mg/L.
- Sulphate content in the water ranges from 33.16 mg/L to 52.80 mg/L. The permissible limit of Sulphate is 400 mg/L for drinking water.
- Total alkalinity in the water samples ranges from 120.6 mg/L to 212.1 mg/L. All the samples are within the permissible limit of drinking water (600 mg/L).
- Chloride ranges from 54.5 mg/L to 128.9 mg/L. Which are below permissible limits (1000 mg/L).



NOISE MONITORING LOCATIONS

S.No	Name	Distance & Direction from project site	Co-ordinates
NQ1	Near Project Site,	--	25°38'25.18"N 85° 4'5.37"E
NQ2	Mithila Colony	0.35 km, NE	25°38'37.07"N 85° 4'15.33"E
NQ3	Takiyapar, Danapur	0.47 Km WSW	25°38'17.56"N 85° 3'50.92"E
NQ4	Rukanpura	3.60 Km South	25°36'28.25"N 85° 4'3.88"E
NQ5	Nasriganj	0.70 Km North	25°38'52.68"N 85° 4'4.89"E
NQ6	Hanuman Nagar, Danapur	4.80 Km WSW	25°37'44.26"N 85° 1'19.98"E
NQ7	Patliputra Colony	4.05 KM ESE	25°37'53.03"N 85° 6'26.01"E
NQ8	Lekha nagar, Danapur	4.80Km SW	25°36'17.20"N 85° 2'26.89"E

NOISE MONITORING LOCATIONS



NOISE MONITORING RESULT

Applicable Noise Standards

Area Code	Category of Area	Limit in dB (A) Leq	
		Day Time	Night Time
A	Industrial area	75	70
B	Commercial area	65	55
C	Residential area	55	45
D	Silence zone	50	40

(Source: Noise Pollution Rules, 2000)

Note:

- Day time is reckoned in between 6 am and 10 pm.
- Night time reckoned in between 10 pm and 6 am.
- Silence zone is defined as areas up to 100 meters around such premises as hospitals, education, institutions and courts. The silence zones are to be declared by the Component Authority.
- Mixed categories of areas should be declared as one of the four above-mentioned categories by the Component Authority and the corresponding standard shall apply.

NOISE MONITORING RESULT

Observation on Ambient Noise Quality:

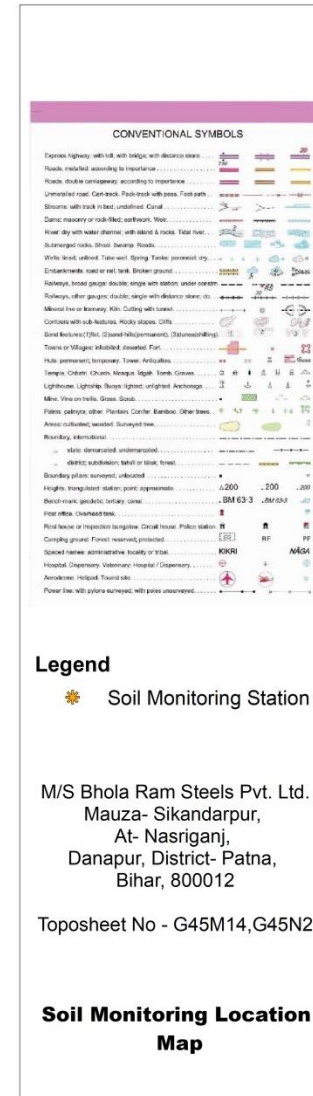
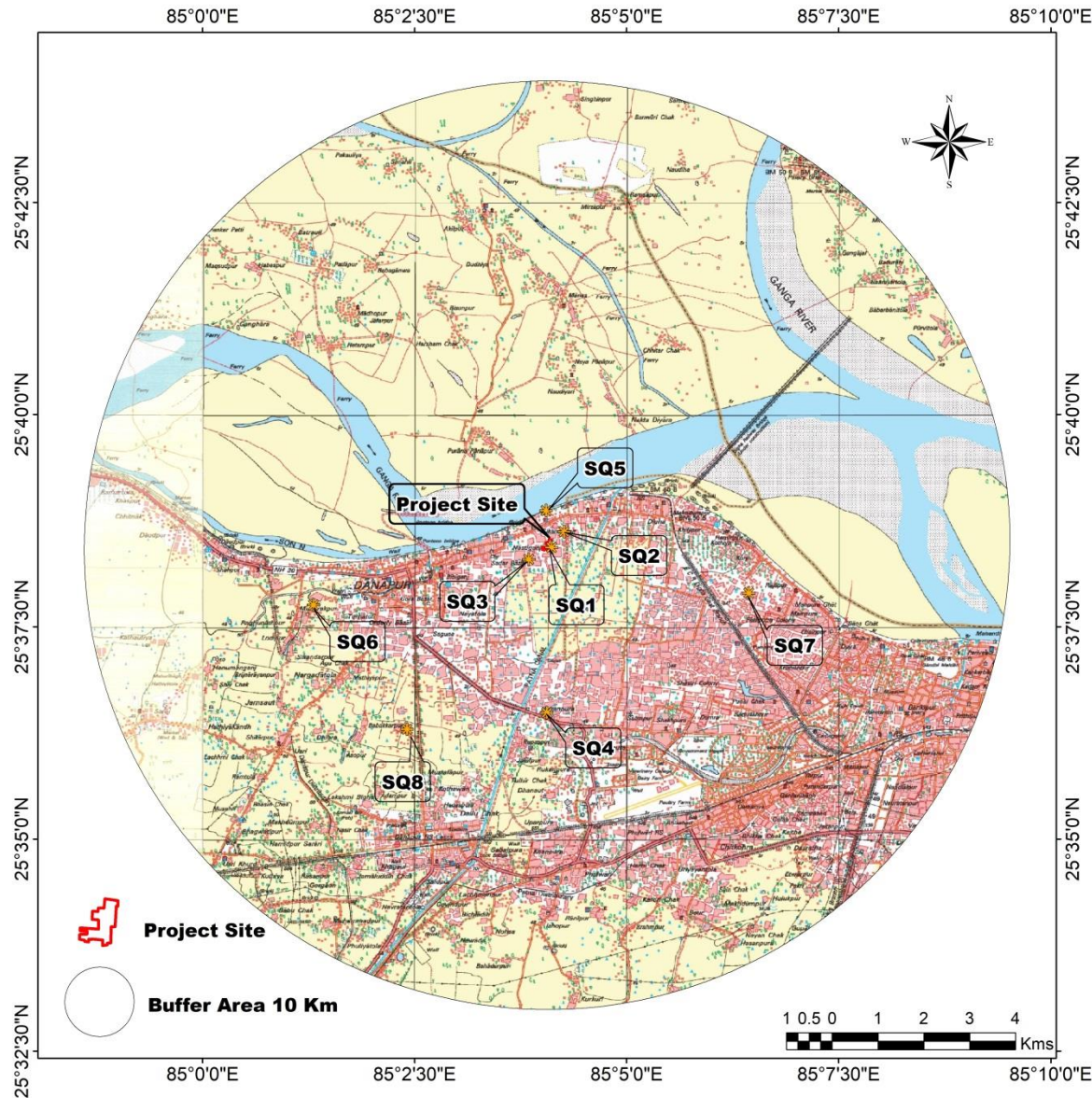
Day Time: The noise levels varied in the study area during day time from 46.5dB (A) Leq to 66.5dB (A) Leq. The maximum concentration was recorded at (NQ1) Project Site and the minimum concentration was recorded at (NQ5) Nasriganj. The day time noise level in the study area is within the noise Limit.

Night Time: The night time noise level in the study area is in the range of 34.1dB (A) Leq to 52.3dB (A) Leq. The maximum concentration was recorded at (NQ1) Project Site and the minimum concentration was recorded at (NQ7) Patliputra Colony. The night time noise was also within stipulated standards of CPCB.

SOIL QUALITY MONITORING LOCATIONS

S.No	Name	Distance & Direction from project site	Co-ordinates
SQ1	Project Site		25°38'19.32"N 85° 4'0.75"E
SQ2	Hanuman Nagar, Danapur	4.80 Km WSW	25°37'45.11"N 85° 1'20.40"E
SQ3	Patliputra Colony	4.05 KM ESE	25°37'53.93"N 85° 6'22.36"E
SQ4	Rukanpura	3.60 Km South	25°36'29.95"N 85° 4'3.31"E
SQ5	Nasriganj	0.70 Km North	25°38'48.85"N 85° 4'2.34"E
SQ6	Bajitpur, Digha	2.80 Km ENE	25°38'41.33"N 85° 5'44.27"E
SQ7	BSPHCL Energy Park, Patel Nagar	4.60 KM SE	25°36'50.46"N 85° 6'12.02"E
SQ8	Lekha nagar, Danapur	4.80Km SW	25°36'19.43"N 85° 2'30.03"E

SOIL QUALITY MONITORING LOCATIONS



SOIL QUALITY MONITORING RESULTS

Analysis of result of soil data

Soil reaction (pH): For the eight-soil sample under consideration the pH range between 7.09 to 8.18 indicating soils are slightly alkaline and are almost normal for crop growth.

Electrical conductivity (EC): The EC of eight soil samples are between 320.6 $\mu\text{mho/cm}$ to 411.4 $\mu\text{mho/cm}$ and are below the limits to be called as saline and hence the soils are normal for crop growth.

Available Nitrogen (N): The available nitrogen in the eight samples in question, as per analysis, ranges between 122.6 mg/kg to 243.4 mg/kg showing good available nitrogen content in different samples, for crop growth.

Available Phosphorus (P): The phosphorus content of soil of eight samples ranges between 51.6 mg/kg to 75.9 mg/kg and falls under medium category for crop growth.

Available Potassium (K): The Potassium content of eight soil samples ranges between 259.1 mg/kg to 366.3 mg/kg and is average for crop growth.

SITE PHOTOGRAPHS




BIHAR STATE POLLUTION CONTROL BOARD

 Parivesh Bhawan, NSB-2, Patliputra Industrial Area
 Patliputra, Patna - 800 010

Ref. No. -

Patna, dated:-

'CONSENT-TO-ESTABLISH' (NOC)
UNDER SECTIONS 25/26 OF THE WATER (PREVENTION AND CONTROL OF POLLUTION) ACT, 1974 AND 21 OF THE AIR (PREVENTION AND CONTROL OF POLLUTION) ACT, 1981

Reference application ID. 2290905, dated: 22.01.2019 of M/s Bhola Ram Steels Pvt. Ltd., Sri Ajay Kumar Goyanka, 301, Avkash Residencies, Dist.- Patna for setting up M.S Ingot/Billet expansion programme at Khata no-196, 207, Khesra no.-350, 351, 352, 423, Mauza- Sikandarpur, At-Nasriganj, Po.- Digha, Danapur, Dist.- Patna- 800013 with Capacity expansion as details given below:-

- (i) M.S. Billet/Ingot – 11650 MT/Yr. to 28880 MT/Yr.
- (ii) M.S Section – 14150 MT/Yr. to 28850 MT/Yr.

Investment- 488.2 Lakhs

AFTER CONSIDERING:

- (i) The facts stated in their application;
- (ii) Bihar State Pollution Control Board's Notification No. 26 dated 08.11.2003;
- (iii) Provisions of the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981.

NOC IN FAVOUR OF THE PROPONENT AT THE SAID SITE IS HEREBY ACCORDED SUBJECT TO THE FOLLOWING CONDITIONS:

- (i) The proponent shall obtain 'Consent-to-Operate' under sections 25 & 26 of the Water Act, 1974 and Section 21 of the Air Act, 1981 prior to commissioning of the plant from this Board;
- (ii) The effluent (domestic or trade) and emission, if any, shall conform to the standard prescribed by the Board;
- (iii) They shall install Diesel Generator set(s) with integral acoustic enclosure as per norms of the Board and submit ANL report just after commissioning the unit.
- (iv) Green Belt shall be developed in an area equal to 33% of plant area and maintained.
- (v) They shall provide port hole and platform in the stack for monitoring of flue gas analysis as per norms and height of the stack connected with fume extraction system shall be 35 Mtrs from the Grand Level with water scrubbing system.

Page 1 of 2


BIHAR STATE POLLUTION CONTROL BOARD

 Parivesh Bhawan, NSB-2, Patliputra Industrial Area
 Patliputra, Patna - 800 010

- (vii) They shall submit ambient air quality report and stack monitoring reports to the Board just after commissioning of the unit.
- (viii) Solid waste shall be managed properly so that there shall not be any nuisance arising out of the industry.
- (ix) They shall maintain zero discharge. Cooling water shall be kept in closed circuit.
- (x) No Galvanising/Pickling/Electro Plating work shall be done without obtaining prior CTE/CTO from the Board.
- (xi) If any complain received against the unit. The unit shall shift another suitable site.
- (xii) That, the Project Authority must obtain all other statutory clearance/permission from competent authority.
- (xiii) The unit shall comply E.C. conditions.
- (Xiv) The unit shall develop pucca road inside the plant to avoid fugitive emission.
- (Xv) The unit shall develop water sprinkling system for dust separation.
- (Xvi) The unit shall have a display board near the site stating name of unit / Industry with address/name of proprietor with address and ref memo no and date of consent with its validity period granted by the Board.

NOTE:

1. Bihar State Pollution Control Board reserves the option to revise or add other conditions, if necessary, for protection of Environment in general and for Pollution Control in particular;
2. The present NOC should not be construed as an assurance for the grant of 'Consent-to-Operate' the proposed plant but shall be subject to compliance of all the conditions indicated above;
3. The NOC, granted, shall be valid for a period of one year from the date of issue.

Memo No.: 320

 Sd/
 (Alok Kumar)

Member Secretary

Patna, dated:- 02.3.19

Copy forwarded to: M/s Bhola Ram Steels Pvt. Ltd., Sri Ajay Kumar Goyanka, 301, Avkash Residencies, Dist.- Patna /RO, Patna for favour of information and necessary action.

 (Alok Kumar)

Member Secretary

Page 2 of 2



BIHAR STATE POLLUTION CONTROL BOARD
PARIVESH BHAWAN, PLOT NO. NS-B/2, PALIPUTRA INDUSTRIAL AREA,
PATLIPUTRA, Patna - 800 010

Ref. No. - 1098

Patna, dated- 22-06-23

EMISSION CONSENT ORDER

With reference to the on-line application no.- 7440171 dated 23.03.2023 and all document affidavit of M/s Bhola Ram Steels Pvt. Ltd., 301, Avkash Residencies, TNB Road, Opp. Hindi Bhawan, Dist.-Patna-800001; for consent under sections 21 of the Air (Prevention & Control of Pollution) Act, 1981, he/they is/are granted consent to operate his/their plant for (Capacity: M. S. Flat, Bar & Rods, Squire-28850 MT/yr, Electro Forged Gratings-9200 MT/yr & M.S. Ingot-28880 MT/yr.), Mauza-Sikandarpur, At-Nasriganj, Danapur, Dist.-Patna-800012; for the period of five years from the date of issue; with the following conditions:-

1. That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 22, 23 and 31A of the Air (Prevention & Control of Pollution) Act, 1981 and further shall extend co-operation to the Board in performing its functions entrusted under sections 24, 25 and 26 of the Act;
2. That, he /they shall comply with the requirements of Rule 14 of the Environment (Protection) Rules, 1986; Rules 4, 5, 7, 9, 10 and 11 of the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016; Rules 4, 5, 7, 8, 10, 11, 12, 13, 15, 17 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; and the provisions of the Public Liability Insurance Act, 1991 (whichever is applicable);
3. That, he/they shall monitor his/their emission(s) and the ambient air quality from representative point regularly and shall maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
4. That, he/they shall submit application for consent before 30 days before the date of expiration of the consent or within 30 days from the date of receipt of this order, whichever is applicable;
5. That, the arrangement for rainwater harvesting shall be made available in the unit's Premises;
6. That, water spraying shall be done on all pollution generating point inside the unit;
7. That, the unit shall store their solid waste/slag / ash etc separately inside the premises and use/disposed of properly;
8. That, adequate safety measures shall be provided inside the unit;
9. The unit shall construct Pucca/Paved Internal Road for transport to minimize fugitive emission.
10. That, the unit shall operate their fume extractor regularly and maintain all pollution control system during operation of the unit.
11. That, the unit shall submit Ambient Air Quality, Stack Monitoring report and Ambient Noise Level report six monthly to the Board and the quality of emission shall be as per prescribed Standard of the Board
12. That, tree plantation in vacant space of the campus shall be done to develop as green belt and to control ecology of area surrounding the unit;

13. That, the environmental statement for each financial year ending 31st Sept. in Form-V as is amended to be submitted by the proponent to the Board as prescribed in the Environment (Protection) Rules, 1986;
14. That, they shall make provisions for display of data outside main factory gate about quantity and quality of water discharge and air emission along with solid waste generated within the factory premises;
15. That, notwithstanding any thing stated above, the applicant unit shall abide by all the provisions of the environmental laws including policies and guidelines made there under; and
16. That, this CTO is granted on the basis of undertaking up-loaded by the applicant and it is subject to the condition that in the event of any information/documents submitted by the proponent are found false or misleading at any stage, the CTO granted, shall be revoked and legal action shall be initiated.

To
Sri Ajay Kumar Goyanka,
M/s Bhola Ram Steels Pvt. Ltd.,
301, Avkash Residencies, TNB Road,
Opp. Hindi Bhawan, Dist.-Patna-800001

(S. Chandrasekar)
Member Secretary



BIHAR STATE POLLUTION CONTROL BOARD
PARIVESH BHAWAN, PLOT NO. NS-B/2, PALIPUTRA INDUSTRIAL AREA,
PATLIPUTRA, Patna - 800 010

Ref. No.- 1099.

Patna, dated- 22/6/23

DISCHARGE CONSENT ORDER

With reference to the on-line application no.- 7440171 dated 23.03.2023 and all document affidavit of M/s Bhola Ram Steels Pvt. Ltd., 301, Avkash Residencies, TNB Road, Opp. Hindi Bhawan, Dist.-Patna-800001; for consent under sections 25/26 of the Water (Prevention & Control of Pollution) Act, 1974, he/they is/are granted consent to bring into use his/their new/alterd/existing outlet(s) for discharge of trade effluent and/or domestic sewage from (Capacity: M. S. Flat, Bar & Rods, Squire-28850 MT/yr, Electro Forged Gratings-9200 MT/yr & M.S. Ingot-28880 MT/yr.), Mauza-Sikandarpur, At-Nasriganj, Danapur, Dist.-Patna-800012; for the period of five years from the date of issue with the following conditions:-

- 1 That, he/they shall not make any alteration, addition, deletion or modification in the plant without the prior clearance from the Board and shall also abide by the obligations under sections 24, 31 and 33A of the Water (Prevention & Control of Pollution) Act, 1974 and further shall extend co-operation to the Board in performing its functions entrusted under sections 20, 21, 23, 30 and 32 of the Act;
- 2 That, he /they shall comply with the requirements of Rule 14 of the Environment (Protection) Rules, 1986; Rules 4, 5, 7, 9, 10 and 11 of the Hazardous And Other Wastes (Management and Transboundary Movement) Rules, 2016, Rules 4, 5, 7, 8, 10, 11, 12, 13, 15 and 18 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989; and the provisions of the Public Liability Insurance Act, 1991, whichever is applicable;
- 3 That, he/they shall monitor his/their effluent(s) regularly and maintain its quality in conformity with Board's standards and shall produce its proof, as and when asked for;
- 4 That, he/they shall submit application for consent again 30 days before the expiration of the period of consent or within 30 days from the date of receipt of this order, whichever is applicable.
- 5 That, the cooling process water shall be kept in recirculation system. Discharge, if any, shall conform to the standard prescribed by the Board and accordingly submit analysis report annually;
- 6 That, they shall obtain prior permission from CGWA for installation of bore well and abstraction of groundwater;
- 7 That, water spraying shall be regularly done inside the plant;
- 8 That, the environmental statement for each financial year ending 31st Sept. in Form-V as is amended to be submitted by the proponent to the Board as prescribed in the Environment (Protection) Rules, 1986;
- 9 That, in compliance of direction of the Hon'ble Supreme Court and vide Board's HQ ref no.- 2638, dated 09.07.2019, they shall make provisions for display of data outside main factory gate about quantity and quality of water discharge and air emission along with solid waste generated within the factory premises;
- 10 That, notwithstanding any thing stated above, the applicant unit shall abide by all the provisions of the environmental laws including policies and guidelines made there under; and
- 11 That, this CTO is granted on basis of undertaking up-loaded by the applicant and it is subject to the condition that in the event of any information/documents submitted by the proponent are found false or misleading at any stage, the CTO granted, shall be revoked and legal action shall be initiated.

To
Sri Ajay Kumar Goyanka,
M/s Bhola Ram Steels Pvt. Ltd.,
301, Avkash Residencies, TNB Road,
Opp. Hindi Bhawan, Dist.-Patna-800001

(S. Chandrasekar)
Member Secretary

भारत सरकार
जल शक्ति मंत्रालय
जल संसाधन, नदी विकास
और गंगा संरक्षण विभाग
केन्द्रीय भूमि जल प्राधिकरण
Government of India
Ministry of Jal Shakti
Department of Water Resources,
River Development & Ganga Rejuvenation
Central Ground Water Authority

Project Name:	Bhola Ram Steels Pvt.Ltd.		
Project Address:	Dadi Maa Biscut Factory More, Nasriganj,danapur,patna-12		
Town:	Dinapur Nizamat (nagar Parishad)	Block:	Dinapur
District:	Patna	State:	Bihar
Pin Code:			
Communication Address:	Dadi Maa Biscut Factory More, Nasri Ganj,danapur,patna-12, Dinapur, Patna, Bihar - 800012		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1. NOC No.:	CGWA/NOC/IND/ORIG/2021/10955											
2. Application No.:	21-4/12/BR/IND/2019					3. Category:	Safe					
4. Project Status:	Existing Project					5. NOC Type:	New					
6. Valid from:	08/01/2021					7. Valid up to:	07/01/2024					
8. Ground Water Abstraction Permitted:												
Fresh Water			Saline Water			Dewatering			Total			
m ³ /day	m ³ /year		m ³ /day	m ³ /year		m ³ /day	m ³ /year		m ³ /day	m ³ /year		
50.00	13200.00											
9. Details of ground water abstraction /Dewatering structures												
Total Existing No.:2							Total Proposed No.:0					
Abstraction Structure*	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
	0	0	2	0	0	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges nsd (Rs.):												
39600.00												
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.							No. of Piezometers		Monitoring Mechanism			
							Manual		DWLR**		DWLR With Telemetry	
							1		0		0	
**DWLR- Digital Water Level Recorder							1		0		0	

(Compliance Conditions given overleaf)

This is an auto generated document & need not to be signed.

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011
Phone: (011) 23383561 Fax: 23382051, 23386743
Website: cgwa-noc.gov.in

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SAVE WATER - SAVE LIFE

THANK YOU