ENVIRONMENTAL STATEMENT IN

FORM-V

(Under Rule-14, Environmental protection Rules, 1986)

(2014-2015)

FOR RAJPURA OC

(OPENCAST MINE) Mugma Area Eastern Coalfields Limited

Prepared at

Regional Institute – I

Central Mine Planning & Design Institute Ltd. (A Subsidiary of Coal India Ltd.) G. T. Road (West End) Asansol - 713 304



CMPDI

ISO 9001:2008 Company

ENVIRONMENTAL STATEMENT FOR RAJPURA OPENCAST MINE

FOR THE YEAR: 2014-2015

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EXECUTIVE SUMMARY

E-1 The Rajpura Opencast with a capacity of 0.49 MTY MTY (highest pre – 94 production capacity achieved during 1975 – 76), of Eastern Coalfields Limited is located in the western part of Raniganj Coalfield in Dhanbad District of Jharkhand. The mine is under the administrative control of Mugma Area of ECL. EC has been granted for a capacity of 0.12 MTY as part of Cluster No. 2 (Group of Mines of ECL in Raniganj Coalfield) on 16.01.2015 which will be applicable from FY 2015 – 16.

The area is well connected by roads and railways. G.T. Road (N.H. -2) and Grand Chord Line pass through the colliery leasehold area and Kumardhubi Railway Station lies very close to the leasehold area.

The location map of Rajpura OC is given in annexure-III.

- E-2 In compliance with the Gazette Notification No.G.S.R329 (E) dated 13th March, 1992, the Ministry of Environment and Forests, Government of India, G.M (Environment), ECL entrusted CMPDI, RI-I to prepare Environmental statement of Rajpura OC for the year 2014-2015. This report is prepared with a view to fulfill the statuary obligations laid down by Ministry of Environment & Forests (MOEF).
- E-3 The Environmental Monitoring was carried out quarterly as per the guideline of Ministry of Environment & Forests (MOEF). The Environmental Monitoring results for four quarters ending March, 2015 are appended as Annexure-I & II and discussed in Part-C of Statement Form.
- E-4 Ambient air quality is monitored to study the level of air pollution. The main air pollutant is suspended particulate matter (SPM). It is difficult to quantify the amount of air pollutants generated due to mining.
- E-5 Water is not directly used during mining for coal production. It percolates into working area during mining operation. However, water is consumed for other purposes, mainly for domestic supply and industrial use. Part-B of the Environmental Statement proforma contains the detailed break-up of water consumption.

Mine water analysis results are given in Annexure-II.

- E-6 The noise levels recorded are generally below permissible limits prescribed by Ministry of Environment & Forest (MOEF).
- E-7 Raw material used in coal mining activities are explosive and POL for machines and automobiles.

E-8 Hazardous waste was generated in the form of used cap-lamp batteries and automobile batteries. These batteries were deposited in the Area Stores.

2

E-9 Measures are being taken to control air, water and noise pollution which have been discussed in detail in part-G, H & I of Statement Form.

CHAPTER – I

INTRODUCTION

1.1 **GENESIS:**

The Gazette Notification vide G.S.R No. 329 (E) dated13th March, 1992 and subsequently renamed to 'Environmental Statement' vide Ministry of Environment & Forests (MOEF), Govt. of India gazette notification No. G.S.R No. 386 (E) Dtd.22nd April'93 reads as follows.

"Every person carrying on an industry, operation or process requiring consent under section 25 of the Water Act, 1974 or under section 21 of the Air Act, 1981 or both or authorisation under the Hazardous Waste Rules, 1989 issued under the Environmental Protection Act, 1986 shall submit an Environmental Audit Report for the year ending 31st March in Form V to the concerned State Pollution Control Board on or before the 30th day of September every year."

In compliance with the above, the work of Environmental Statement for Rajpura OC was entrusted to CMPDI by GM (Environment), Eastern Coalfields Limited.

1.2 **PROJECT DESCRIPTION:**

Rajpura Colliery is an existing opencast mine. However, due to land constraints owing to presence of densely populated area, ER Grand Chord, old GT Road etc, progress in Rajpura OC is limited. The mine has very little reserves left and presently OB is being rehandled to extract coal lying below the OB dumps.

Name of seam	Thickness	Grade	Mineable reserve (mt)	Status
B P Seam	3.50 m	E	3.40	Reserves blocked due to builtup area & GT Road
Kalimati	17.00 m	E	20.00	do

Following seams are being mined:

The maximum depth of OCP workings is 63 meters.

1.2.1 COMMUNICATION:

Rajpura OC is situated at a distance of 25 KM from Asansol and 40 KM from Dhanbad. The area is well connected by roads and railways. G.T. Road (N.H. - 2) and Grand Chord Line pass through the colliery leasehold area and Kumardhubi Railway Station lies very close to the leasehold area.

The location map of the Rajpura OC is given in Annexure-III.

1.3 **ENVIRONMENTAL SCENARIO:**

The Environmental monitoring was carried out quarterly as per guideline of Ministry of Environment and Forests (MOEF) by CMPDI, RI-I on quarterly basisstarting from Q/E Dec'2012. Accordingly, Ambient Air Quality and Noise levels is being monitored at four stations along with the Mine Discharge Water quality and Ground / Drinking Water quality. Ground water levels in designated dugwells is also monitored..

The Environmental monitoring result for four quarters ending March'2015 is appended as Annexure- I & II. The environmental monitoring result for the year 2014-2015 (having 358 working days) can be concluded as given below:-

AMBIENT AIR QUALITY

The SPM concentration was found in the range of 114.4 to 287.5 μ g/m³. The SO₂ concentration remained below 10.0 μ g/m³ and NO_X concentration was in the range of 16.5 to 26.3 μ g/m³.

WATER QUALITY

The analysis result reveals that most of the parameters are below permissible limits prescribed by Ministry of Environment & Forests (MoEF) as General Standards for Class-'A' effluent (Effluent discharged into inland surface water).

NOISE LEVEL

The noise level were found in the range of 46.0 to 56.9 dB(A). The noise level recorded is below permissible limit prescribed by Ministry of Environment and Forest (MoEF).

CHAPTER - II

ENVIRONMENTAL STATEMENT

FORM – V

Environmental Statement for the financial year ending March, 2015

PART – A

NAME AND ADDRESS OF THE MINE **(I)**

Name :	RAJPURA OPENCAST
Address :	AGENT, RAJPURA OC
Place :	KUMARDHUBI
Post :	KUMARDHUBI
Dist :	DHANBAD, JHARKHAND

(II)	I) INDUSTRY CATEGORY		Primary	
	(III) PRODUCTION CAPACITY	:	0.49 MTY (as p	

as per highest pre – 94 production capacity achieved during 1975 - 76) EC granted in Jan, 2015 for 0.12 MTY capacity applicable from 2015 - 16.

TOTAL PRODUCTION IN 2014-15: OB IV) Coal 4, 77, 360 m³ 2, 35, 656 Te

PART – B WATER AND RAW MATERIAL CONSUMPTION

(I) WATER CONSUMPTION (Cu.m/day)

		During Previous financial year (2013-2014)	During current financial year (2014-2015)
	A. MINING		
i	Dust suppression	220	220
ii	Fire fighting		
iii	Others (service building etc.)	50	50
	B. COOLING		
	C. DOMESTIC		
i	Colony	2460	2460
ii	Others (service building etc.)		
	TOTAL	2730	2730

A. WATER CONSUMPTION PER UNIT OF PRODUCT

Name of	Water consumption per unit of product			
product	During Previous financial	During current financial		
	year	year		
	(2013-2014)	(2014-2015)		
ROM Coal	457 Ltrs/Te*	418 Ltrs/Te*		

Note- Only for Production Purpose

(II) RAW MATERIAL CONSUMPTION:

Name of raw material	Name of products	Consumption of raw material (per unit of output)		
		During Previous financial year (2013-2014)	During current financial year (2014-2015)	
1. Explosive	Coal and	0.69 Kg/te	0.66 Kg/te	
2. Diesel	OB	2.50 Lt/te	2.31 Lt/te	
3. Lubricants		0.14 Lt/Te	0.13 Lt/Te	

PART – C

POLLUTION GENERATED

Pollution	Quantity of pollution generated	Percentage variation from prescribed standards with
		reasons
WATER	Mine water discharged Analysis results are given in Annexure-II.	The analysis results reveal that most of the parameters are below permissible limits prescribed by MOEF as General Standards for class 'A' effluent (Effluent discharged into inland surface water.)
AIR	It is difficult to quantify the exact amount of air pollutants from UGP operation because of existence of other regional pollution sources. The main air pollutant is suspended particulate matter (SPM). The air quality results are appended as Annexure-I.	Ambient air quality result shows that the values of RPM, SPM, SO ₂ and NOx are well within prescribed standards.

PART – D

HAZARDOUS WASTE

(As specified under Hazardous waste management and handling Rules, 1989)

Hazardous waste	Total q	Total quantity			
	During Previous financial year (2013-2014)	During current financial year (2014-2015)			
A) From process					
i)Used oil	11000 Liters	10800 Liters			
ii)Automobile Batteries	14 Nos	15 Nos			
B) From pollution control					
facilities					

PART – E

SOLID WASTE

Particulars	Total quantity (l	In Million Cu.m)		
	During Previous financial	During current financial		
	year (2013-2014)	year (2014-2015)		
a) From process	0.482	0.477		
(Mining)				
b) From pollution control facilities	N/A	N/A		
c) Quantity recycled or reutilized	100 % Used for backfilling	100 % Used for backfilling		

PART - F

PLEASE SPECIFY THE CHARACTERISTICS (IN TERMS OF CONCENTRATION AND QUANTUM) OF HAZARDOUS AS WELL AS SOLID WASTE AND INDICATE THE DISPOSAL PRACTICE ADOPTED FOR BOTH THESE CATEGORIES OF WASTE.

No hazardous waste is produced. Used oil such as mobile/lubricants are used for the lubricating the HEMM/haulage etc.

Solid waste such as stone/soil is produced and used for refilling of OCP voids and reclamation.

PART – G

IMPACT OF POLLUTION CONTROL MEASURES ON CONSERVATION OF NATURAL RESOURCES AND CONSEQUENTLY ON COST OF PRODUCTION.

In order to carry out mining in an eco-friendly manner following pollution control measures have been implemented.

1.0 AIR POLLUTION CONTROL MEASURES:

The following measures have been taken to control air pollution.

i) Water sprinkling is done on coal transportation road with the help of water tanker. Dust suppression arrangement-

No of Mobile	Frequency	of	Length	of	Cost incurred	Source	of
sprinklers on	sprinkling		road cover	red		water	
roll along	(Kl/day)		with no	of			
with capacity			trips				
One, 12 KL	60.0		2 Km, 5 tr	ips		Mine wa	ater

- ii) Regular sprinkling of water at coal transfer and loading points.
- iii) Total 12 Ha area has been planted in year 2013-14 in leasehold of Rajpura OC.

2.0 WATER POLLUTION CONTROL MEASURES:

The following measures have been taken to control water pollution from mine:

- i) Most of the parameters of mine water conform to General Standard of MoEF for Class- A effluent as mentioned earlier. The mine water is discharged to nala after settling.
- ii) Some portions of mine water is also used for different purposes in underground mine and for domestic supply after passing it through slow sand filtration plant.
- iii) The septic tanks & soak pits are provided in residential quarters of project colony. For two unit quarters one septic tank is provided. The effluent is finally discharged to soak pits provided with each septic tank.

3.0 NOISE POLLUTION CONTROL MEASURES

i) Regular maintenance of machines and other equipment at workshop including mine fan.

ii) Providing green belt around core activity area, along road side in colony and in other vacant space.

$\mathbf{PART} - \mathbf{H}$

ADDITIONAL INVESTMENT PROPOSAL FOR ENVIRONMENAL PROTECTION INCLUDING ABATEMENT OF POLLUTION.

The following are the additional investment proposals for environmental protection :

- i) The Environmental monitoring of the project will be continued quarterly as per the guideline of Ministry of Environment and Forest (MoEF).
- ii) Necessary Consent for discharge may be taken from Competent Authority.

PART – I

ANY OTHER PARTICULARS IN RESPECT OF ENVIRONMENTAL PROTECTION AND ABATEMENT OF POLLUTION.

The Environmental Monitoring is carried out quarterly for the project by CMPDI, RI-I as per the guideline of Ministry of Environment and Forest (MoEF) and based on the result there of, colliery takes necessary action if needed.

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Stn No	Monitoring Station	Sampling Date	TSPM	PM10	SO2	NOX	Noise Level dB(A)	Station Category	
		03-Apr-14	154.2	79.6	<10.0	22.6	49.0		
		04-Apr-14	157.3	81.0	<10.0	20.7	-		
	A (1	07-Jul-14	118.4	72.7	<10.0	20.2	47.3		
A1 Agent's	08-Jul-14	124.2	74.9	<10.0	22.1	-	Industrial		
	Office	25-Nov-14	124.2	86.2	<10.0	19.7	47.1		
		26-Nov-14	134.7	78.4	<10.0	20.8	-		
		16-Feb-15	138.2	94.7	<10.0	22.1	49.4		
		17-Feb-15	142.1	108.3	<10.0	20.6	-		
		03-Apr-14	276.0	131.9	<10.0	24.9	56.9		
		04-Apr-14	279.8	133.5	<10.0	22.4	-	Industrial	
		07-Jul-14	212.2	89.9	<10.0	22.8	52.8		
A2	Workshop	08-Jul-14	198.6	87.4	<10.0	20.9	-		
		25-Nov-14	198.6	106.7	<10.0	22.4	54.3		
		26-Nov-14	194.6	101.7	<10.0	22.0	-		
		16-Feb-15	254.4	164.3	<10.0	26.3	56.9		
		17-Feb-15	287.5	168.2	<10.0	24.3	-		
		03-Apr-14	174.2	85.9	<10.0	20.1	47.8		
		04-Apr-14	178.1	86.4	<10.0	18.9	-		
	Electric	07-Jul-14	134.3	76.3	<10.0	19.3	44.1		
A3	sub-station	08-Jul-14	136.1	72.1	<10.0	20.6	-	Industrial	
	Sub-station	25-Nov-14	142.1	84.1	<10.0	18.4	46.0	industrial	
		26-Nov-14	146.7	86.2	<10.0	19.7	-		
		16-Feb-15	148.3	93.4	<10.0	20.4	48.2		
		17-Feb-15	154.9	104.1	<10.0	18.2	-		
		03-Apr-14	167.3	78.6	<10.0	18.2	47.0		
		04-Apr-14	165.4	76.0	<10.0	16.8	-		
	Dump	07-Jul-14	128.4	68.9	<10.0	16.8	46.3		
A4	Pump House	08-Jul-14	124.3	64.2	<10.0	18.3	-	Industrial	
	nouse	25-Nov-14	132.8	76.9	<10.0	16.7	49.2		
		26-Nov-14	136.4	74.6	<10.0	18.2	-		
		16-Feb-15	144.2	104.7	<10.0	18.5	54.7		
		17-Feb-15	146.7	102.5	<10.0	16.5	-		

Air Quality Monitoring Report (Q/E June, 2014 to Q/E March, 2015)

Annexure-I

Air Quality Standards for Coal Mines

Stipulated by Ministry of Environment and Forests (MoEF), Vide Notification No. GSR 742(E), Dt: 25.09.2000 for Coal mines located in the old coal fields of Jharia, Raniganj, Bokaro.

	SPM	RPM	SO ₂	NOx	Noise
24 hour average	700	300	120	120	75
Annual Average	500	250	80	80	

Environmental standards vide MOEF, Govt. of India Extraordinary Gazette notification No.660 dated 16.11.2009. (NAAQS, 2009)

Pollutant Concentration	PM ₁₀	PM _{2.5}	SO ₂	NOx
(microgram/cum)				

Environmental Statement for Rajpura OC for 2014-15

Annual Average	60	40	50	20
24 hr Average	100	60	80	80

Annexure-II

MINE WATER QUALITY

Area	Mugma	Mugma	Mugma	Mugma	Effluent Water
Project	Rajpura OCP	Rajpura OCP	Rajpura OCP	Rajpura OCP	(MOEF
Qtr Ending	June'14	Sept'14	Dec'14	Mar'15	Schedule-VI
Sample No	38W1	38W1	38W1	38W1	Standard)
Sampling Station	Mine Discharge	Mine Discharge	Mine Discharge	Mine Discharge	
Date of Sample	04-Apr-14	08-Jul-14	26-Nov-14	17-Feb-15	
Colour	2	3	4	2	5
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
TSS	<25.0	<25.0	26	32	100.0
рН	8.22	7.99	8.14	8.09	5.5-9.0
Temperature(Deg C)	Normal	Normal	Normal	Normal	Shall not exceed 50C above the receiving water temp
Oil & Grease	<2.0	<2.0	<2.0	<2.0	10.0
Total Residual Chlorine	<0.02	<0.02	<0.02	<0.02	1.0
Ammonical Nitrogen	0.54	0.52	0.48	0.26	50.0
Total Kjeldahi Nitrogen	1.17	1.16	1.31	1.18	100.0
Free Ammonia	<0.4	<0.4	<0.4	<0.4	5.0
BOD	10	12	8	14	30.0
COD	16	16	32	40	250.0
Arsenic	<0.005	<0.005	<0.005	<0.005	0.2
Lead	<0.005	<0.005	<0.005	<0.005	0.1
Hexavalent Chromium	0.04	0.03	0.04	0.02	0.1
Total Chromium	0.08	0.06	0.07	0.05	2.0
Copper	< 0.03	<0.03	<0.03	<0.03	3.0
Zinc	0.03	0.03	0.03	0.03	5.0
Selenium	<0.005	<0.005	<0.005	<0.005	0.05
Nickel	<0.10	<0.10	<0.10	<0.10	3.0
Fluoride	0.84	0.82	0.98	0.72	2.0
Dissolved Phosphate	3.98	3.12	2.31	1.32	5.0
Sulphide	0.013	0.006	0.007	<0.005	2.0
Phenolics	<0.001	<0.001	<0.001	<0.001	1.0
Manganese	0.22	0.22	0.20	0.24	2.0
Iron	0.16	0.14	0.14	0.14	3.0
Nitrate Nitrogen	3.1	2.9	2.3	3.2	10.0

Note : All parameters are in mg/l unless specified otherwise

DRINKING WATER QUALITY REPORT

Area	Mugma	Mugma	Mugma	Mugma	Indian
Project	Rajpura OCP	Rajpura OCP	Rajpura OCP	Rajpura OCP	Drinking Water
Quarter	June'14	Sept'14	Dec'14	Mar'15	Standard
Sample No	38DW1	38DW1	38DW1	38DW1	(IS-10500)
Sampling	Potable water	Potable water	Potable water	Potable water	
Station	at C-type Qtr	at C-type Qtr	at C-type Qtr	at C-type Qtr	
	Rajpura	Rajpura	Rajpura	Rajpura	
Date of sampling	04-Apr-14	08-Jul-14	26-Nov-14	17-Feb-15	
Colour,Hazen unit Max	3	4	4	4	5
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity,NTU Max	2.8	2.7	2.6	3.9	5
рН	8.42	8.88	8.92	8.47	6.5-8.5
Total Hardness	172	16	84	92	300.0
Iron	0.12	0.14	0.13	0.16	0.30
Chlorides	30	23	6	71	250.0
Res Free chlorine	<0.02	0.08	<0.02	0.03	0.20
Dissolved Solids	322	32	212	570	500.0
Calcium	27.2	16	11.2	12.8	75.0
Copper	<0.03	<0.03	<0.03	<0.03	0.05
Manganese	<0.02	<0.02	<0.02	<0.02	0.10
Sulphate	42	16	24	73	200.0
Nitrate	1.77	3.54	2.66	13.29	45.0
Fluoride	0.98	0.04	0.16	0.98	1.0
Selenium	<0.005	<0.005	<0.005	<0.005	0.01
Arsenic	<0.005	<0.005	<0.005	<0.005	0.05
Lead	<0.005	<0.005	<0.005	<0.005	0.05
Zinc	0.04	0.04	0.04	0.04	5.00
Hex Chromium	<0.01	<0.01	<0.01	0.04	0.05
Boron	<0.01	<0.01	<0.01	<0.01	1.00
Coliforms (MPN)	Nil	Nil	Nil	Nil	Nil
Phonolics	<0.001	<0.001	<0.001	<0.001	0.001
Alkalinity	140	120	76	136	200.0

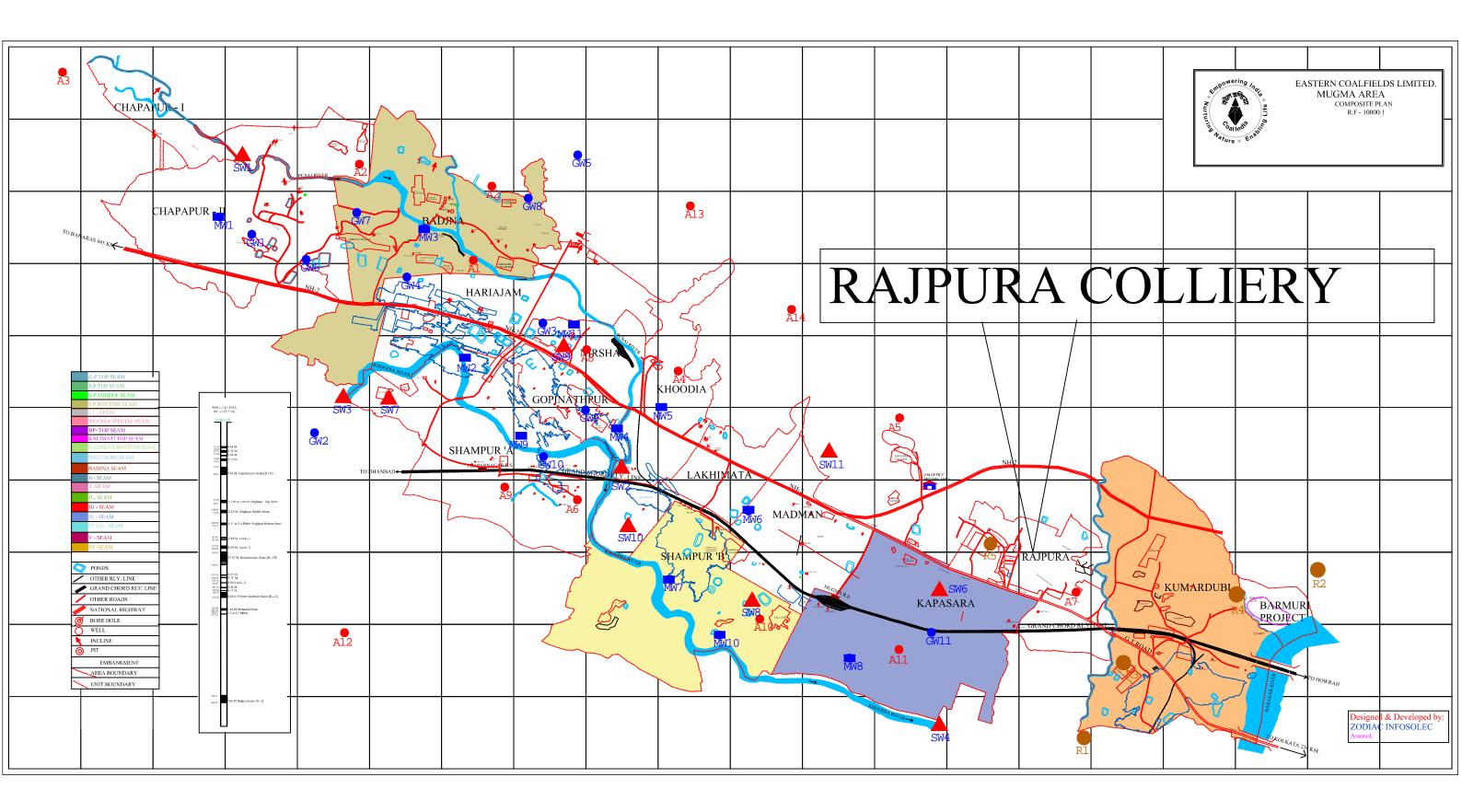
NOTE: All parameters are in mg/l unless specified otherwise.

Annexure-II

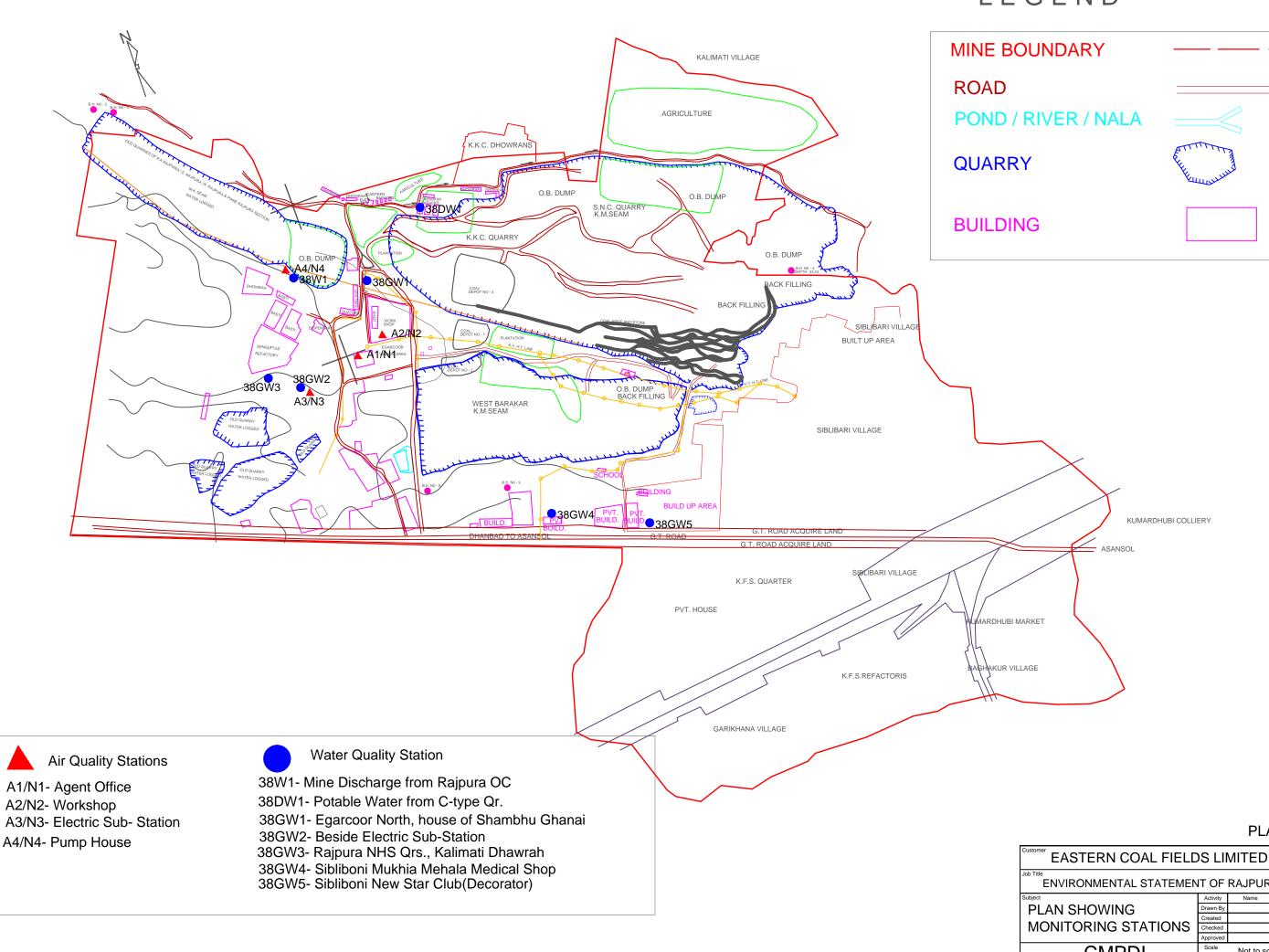
DRINKING WATER QUALITY REPORT

Area	Mugma	Mugma	Mugma	Mugma	Mugma	Indian
Project	Rajpura OC	Rajpura OC	Rajpura OC	Rajpura OC	Rajpura OC	Drinking Water
Quarter	June'14	June'14	June'14	June'14	June'14	Standard
Sample No	38GW1	38GW2	38GW3	38GW4	38GW5	(IS-10500)
Sampling Station	Shiblibani Mukhia mehala medical hall	Shiblibani new star club (Decorator)	Egarkund north house of shambhu ganai	Kalimati beside electrical sub station	Rajpura NHS Qtrs kalimati dhawra	
Date of sampling	04-Apr-14	04-Apr-14	04-Apr-14	04-Apr-14	04-Apr-14	
Colour,Hazen unit Max	3	4	4	2	4	5
Odour	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable	Unobjectionable
Taste	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity,NTU Max	3.8	3.2	3.0	2.9	4.0	5
рН	7.71	7.77	8.11	8.15	8.08	6.5-8.5
Total Hardness	244	164	91.2	364	3.56	300.0
Iron	0.12	0.09	0.16	0.14	0.12	0.30
Chlorides	58	41	8	47	34	250.0
Res Free chlorine	<0.02	<0.02	<0.02	<0.02	<0.02	0.20
Dissolved Solids	404	298	348	508	496	500.0
Calcium	49.6	38.4	19.2	6.4	12.4	75.0
Copper	<0.03	< 0.03	<0.03	< 0.03	< 0.03	0.05
Manganese	<0.02	<0.02	<0.02	<0.02	<0.02	0.10
Sulphate	51	59	66	78	80	200.0
Nitrate	13.29	12.40	12.84	11.08	13.29	45.0
Fluoride	0.29	0.39	0.35	0.28	0.48	1.0
Selenium	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
Arsenic	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Lead	<0.005	<0.005	<0.005	<0.005	<0.005	0.05
Zinc	0.04	0.03	0.04	0.03	0.04	5.00
Hex Chromium	<0.01	<0.01	<0.01	<0.01	<0.01	0.05
Boron	<0.01	<0.01	<0.01	<0.01	<0.01	1.00
Coliforms (MPN)	Nil	Nil	Nil	Nil	Nil	Nil
Phonolics	<0.001	<0.001	<0.001	<0.001	<0.001	0.001
Alkalinity	88	132	88	132	180	200.0

NOTE: All parameters are in mg/l unless specified otherwise.



LEGEND



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ASANS	KUMARDHUBI COLLIEI	RY	
	2		

ND			
ARY			
R / NALA		\bigcirc	
	ATT THE MULLING		

PLATE N0.-2

ENVIRONMENTAL STATEMENT OF RAJPURA OCP PLAN SHOWING MONITORING STATIONS CMPDI Scale Not to scale Drg.No. ISO 9001 Company