POINTWISE COMPLIANCE TO THE NOC CONDITION TOWARDS THE NOC ISSUED BY THE CENTRAL GROUND WATER AUTHORITY OF INDIA VIDE LETTER NO.CGWA/NOC/MIN/REN/2/2022/7299 VALID FROM 11.12.2022 TO 10.12.2024 (APPLICATION No.: 21-4/1901/OR/MIN/2018) FOR PATABEDA IRON AND MANGANESE MINES (19.425 Ha.) OF M/S M.G. MOHANTY AT/PO: PATABEDA, PO: MALDA SUBDIVISION: BONAI, DISTRICT: SUNDERGARH, ODISHA STATE

#### **Mandatory Conditions:**

Installation of digital water flow meter (conforming to BIS/ IS standards) having telemetry system in the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate.

Digital Water Flow Meter with Telemetric System have been installed in the existing borewell. The installed flow meter user ID and Pass word has already been communicated. The proposed borewell is to be installed. At the time of installation Digital Flow Meter with Telemetry System shall be installed. The photograph of existing borewell is appended as Annexure-1. The 2<sup>nd</sup> borewell to be establish once the expansion of mining operation takes place.

2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.

The flow meter has been calibrated and copy of calibration certificate enclosed as Annexure-2.

3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines. Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II of the guideline.

Ground Water drawal permission is for 30 cum/day. As per the condition Manual Piezometer has been installed. The monthly ground water level data enclosed and Annexure-3 and the photograph of piezometer is enclosed as Annexute-4

4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.

Pre-monsoon water quality report of post monsoon Season of 2023 of borewell has been analysed and the Analysis data is enclosed as Annexure-5.

Dillip Kermar Pattorayan

- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
  - The Patabeda mine is a Opencast mining project not intersecting groundwater table. Not Applicable. However the Ground water Table of the Buffer Zone in different season is Enclosed as Annexure-6.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
  - Open cast Project with no dewatering. Not Applicable.
- 7) The firm shall report compliance of the NOC conditions online in the website (<u>www.cgwa-noc.gov.in</u>) within one year from the date of issue of this NOC.
  - The compliance of NOC condition is being submitted online in the NOCAP portal.
- 8) Industries abstracting ground water in excess of 100 m<sup>3</sup> /d shall undertake annual water audit through certified auditors and submit audit reports within three months of completion of the same to CGWA. All such industries shall be required to reduce their ground water use by at least 20% over the next three years through appropriate means.
  - Ground water abstraction for this project is 30 cum/day. Audit report Not Applicable for the project.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
  - It is noted and the renewal application will be applied 90 days before expiry of the NOC
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.
  - Noted and will be followed.

### **General conditions:**

11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).

No additional ground water abstraction structure will be constructed in the Project area without Permission of CGWA.

Dillip Kermar Pattorayak

12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).

Necessary permission will be seek in due course from CGWA if the operation required to increase the quantum of ground water abstraction.

Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.

Rooftop water harvesting facility in the colony has been installed. Photograph is enclosed As Annexure-7

14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.

It is a opencast mining project. Ground Water Contamination is not expected.

15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.

It is a opencast mining project. Not Applicable.

16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.

The recycled/treated water of ETP/STP to be used for plantation.

17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.

Not applicable. The NOC is for drawl of fresh water only.

18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.

Not applicable. It is a mining Project not intersecting ground water table. .

19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.

Noted and Agreed.

20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.

Noted. The mining operation is being carried out with all necessary statutory clearance.

Dillip Kernar Pattorayak

21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.

Noted. The mining operation is being continued with all necessary clearance.

22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.

Noted, if any change of ownership arises will be intimated in due course.

23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

Noted.

24) Proponents, who have installed/constructed artificial recharge structures in compliance of the NOC granted to them previously and have availed rebate of upto 50% (fifty percent) in the ground water abstraction charges/ground water restoration charges, shall continue to regularly maintain artificial recharge structures.

Artificial recharge structure has been installed in the colony. Photograph enclosed as Annexure-7.

Industries which are likely to cause ground water pollution e.g. Tanning, Slaughter Houses, Dye, Chemical/ Petrochemical, Coal washeries, pharmaceutical, other hazardous units etc. (as per CPCB list) need to undertake necessary well head protection measures to ensure prevention of ground water pollution as per Annexure III of the guidelines.

Not applicable this is a mining project.

26) In case of new infrastructure projects having ground water abstraction of more than 20 m3/day, the firm/entity shall ensure implementation of dual water supply system in the projects.

Not Applicable . It is a mining project.

27) In case of infrastructure projects, paved/parking area must be covered with interlocking/perforated tiles or other suitable measures to ensure groundwater infiltration/harvesting.

Not Applicable . It is a mining project.

Dillip Kermar Pattorayan

28) In case of coal and other base metal mining projects, the project proponent shall use the advance dewatering technology (by construction of series of dewatering abstraction structures) to avoid contamination of surface water.

Not Applicable . It is a mining project not involving dewatering.

29) The NOC issued is conditional subject to the conditions mentioned in the Public notice dated 27.01.2021 failing which penalty/EC/cancellation of NOC shall be imposed as the case may be.

Noted.

30) This NOC is issued subject to the clearance of Expert Appraisal Committee (EAC) (if applicable).

This project is a Mining project. NOC is for drawalof 30 cum/day of Ground water. Clearance of EAC is not applicable for this project.

Dillip Kermar Pattorayan



#### Annexure-1

## Dillip <dkpattanayak123@gmail.com>

## Installation of Digital Flow Meter with telemetry System in Borewell Patabeda Iron and Manganese Mines (19.425 ha.) of M/s M G Mohanty

1 message

Dillip <dkpattanayak123@gmail.com> To: rdser-cgwb@nic.in

Mon, Nov 7, 2022 at 2:04 PM

To

The Regional Director

CGWB (SER) Bhujan Bhawan, Khandagiri Bhubaneswar-751030 Odisha

> Installation of Digital Flow Meter with telemetry System in Borewell Patabeda Iron and Sub: Manganese Mines (19.425 ha.) of M/s M G Mohanty

Dear Sir,

With NOC. CGWA/NOC/MIN/REN/1/2020/5770 reference to our **CGWA** No.: and CGWA/NOC/MIN/REN/2/2022/7299, this is to inform you that we have installed the Digital Flow Meter with Telemetry System in our existing Bore Well on 23.12.2021 as per the NOC Condition.

The User ID. Password, & URL for the Digital Flow Meter with Telemetry System is mentioned below-

User ID: mgmohantybo@gmail.com

Pass Word: Patabeda19 URL:www.iosense.io

This is for your kind perusal and Record

With Regards Yours Faithfully For M/s M G Mohanty

D.K. Pattanayak, Geologist

1. CGWA NOC, 2. Geo-tagged Photo of Bore well fitted with Digital Flow Meter Attachment:

3. Calibration Certificate

Dillip Kumar Pattanayak 9437325755,7440015245

5 attachments

19.425 Flow meter.jpeg 222K





19.425 bore well.jpeg 334K





**22 CGWA NOC 19.425 Ha..pdf** 541K

# Monthly water drawal data of Patabeda Iron & Mn Mines (19.425Ha) M/s M G Mohanty

SI. No	Month	Drawal in KL
1	August'20	220.0KL
2	September'20	211.9KL
3	October'20	217.2KL
4	November'20	209.7KL
5	December'20	209.1KL
6	January'21	201.9KL
7	February'21	196.0KL
8	March'21	208.3KL
9	April'21	209.0KL
10	May'21	210.0KL
11	June'21	202.7KL
12	July'21	217.1KL
13	August'21	211.0KL
14	September'21	210.1KL
15	October'21	196.3KL
16	November'21	180.3KL
17	December'21	217.4KL
18	January'22	203.1KL
19	February'22	195.8KL
20	March'22	210.0KL
21	April'22	209.0KL
22	May'22	211.0KL
23	June'22	193.0KL
24	July'22	213.9KL
25	August'22	209.4KL
26	September'22	209.3KL

Mines Manager
Patabeda Iron & Manganese
Mines (19.425 Ha)
of M/s, M. G. Mohanty

October'22	202.6KL
November'22	209.6KL
December'22	216.4KL
January'23	201.9KL
February'23	196.0KL
March'23	214.9KL
April'23	209.8KL
May'23	209.8KL
June'23	202.1KL
July'23	216.2KL
August'23	209KL
September'23	209.9KL
	November'22 December'22 January'23 February'23 March'23 April'23 May'23 June'23 July'23 August'23

Mines Manager

Patabeda Iron & Manganese
Mines (19.425 Ha)
of M/s. M. G. Mohanty





No.: LHN22D0577 Date: 22-Dec-2022

## GOVERNMENT OF ODISHA

## CERTIFICATE OF VERIFICATION

(See Rule 16 (3) Schedule - VIII of the Odisha Legal Metrology (Enforcement) Rules, 2011)

Office of the Legal Metrology Officer LAHUNIPARA, Camp/Place Petabeda

Name of Legal Metrology Officer Sri. Jyoti Ranjan Behera No. OR-361

I here by certify that I have this day verified and STAMPED the under mentioned weights, measures, etc., belonging to M/s M G Mohanty (M G Mohanty) Locality At-Patabeda, Po Malda, Dist Sundargarh, Name of the trade Mining

Quan	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Mn Mines 19.425Ha	alizer, Capacity (Max): 750 liter/min Pata a Ground Water, Make: UPC, Model No.	beda Iron & : UPCS	5500.00	500.00
	MAG 110, SL No. : Addl Fee R17(2): R	2010401046 s.0.00, Addl Fee R17(3): Rs.0.00			

[ In the case of rejected weights, measures, etc. the Legal Metrology Officer shall give separate Certificate of rejection mentioning the reasons of rejection against each item ]

Total Rs. 6000.00 deposited vide T. Receipt / Money Receipt No. 337C5DD428 dated 2022-11-29

Repaired by / Used by M G Mohanty (Signature)

**NEXT VERIFICATION DUE ON 22-Dec-2023** 

Signature Not Verified
Digitally signed by JYOTI RANJAN
BEHERA
Date: 2022.12.22 18:27:53 IST

Legal Metrology Officer, LAHUNIPARA

Note:1. The Certificate is to be exhibited in a conspicuous place in the related premises as per Rule 24 2. If the weight or measure is repaired or reinstalled, these shall not be put into use unless it has been duly reverified and stamped, notwithstanding that periodical re-verification of such weight or measure has not become due as per Rule 20.

## Monthly Piezo Meter Reading data of Patabeda Iron & Mn Mines (19.425Ha), M/s M G Mohanty

SI. No	Month	Ground water level in BGLm/ (Surface level & water Table in AMSL)
1	August'20	77.14m
2	September'20	64.22m
3	October'20	74.13m
4	November'20	80.29m
5	December'20	82.58m
6	January'21	83.79m
7	February'21	84.27m
8	March'21	85.51m
9	April'21	85.81m
10	May'21	84.79m
11	June'21	84.23m
12	July'21	81.89m
13	August'21	85.22m
14	September'21	83.39m
15	October'21	84.92m
16	November'21	85.94m
17	December'21	86.81m
18	January'22	87.32m
19	February'22	89.16m
20	March'22	87.94m
21	April'22	88.50m
22	May'22	88.76m
23	June'22	87.10m
24	July'22	83.51m
25	August'22	86.27m
26	September'22	83.41m

Mines Manager
Patabeda Iron & Manganese
Mines (19.425 Ha)

27	October'22	84.73m
28	November'22	86.58m
29	December'22	91.49m
30	January'23	91.68m
31	February'23	92.76m
32	March'23	89.09m
33	April'23	88.66m
34	May'23	89.32m
35	June'23	88.39m
36	July'23	79.75m
37	August'23	76.87m
38	September'23	72.12m

Mines Manager

Patabeda Iron & Manganese Mines (19.425 Ha)

of M/s. M. G. Mohanty

## Annexure-4



PHOTOGRAPH OF PIEZOMETER WELL



## SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

#### LABORATORY:

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091 ₺: (033) 2357-1492 / 4670 / 71 / 5039 - 44 ● Fax: (033) 2357 - 4806

E-mail: supind50@yahoo.co.in / supind2019@gmail.com Website: www.superintendencecoindia.com

GSTIN: 19AAECS3740C2ZJ





Tested by

## **TEST REPORT**

Annexure-5

TC-8066 ULR-TC806623000000450F				
Report No. N-1326	Date: 12.04.2023			
Name and Address of Customer:	M/s. M.G. MOHANTY.  Patabeda Iron & Manganese Mines (19.425 Ha)  Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha			
Work-order no. and Date:	MGM/CO/2021/217 Dated:12/.03/2021			
Sample receiving date:	23.03.2023			
Sub:	Water monitoring			
Material:	Drinking Water.			
Group:	Water			

CHEMICAL REPORT

Date o	f starting of Test 24.03.2023	Date	of completion of	Test: 08.04,2023	<u> </u>
OH HOUSE			1,	Test Result	
SI.	Specific Test Performed	Test Method	Permisible limit IS:10500/2 012 ( max)	DW1 Mines canteen	DW2 Patabeda vill (Bore Well)
				Date of Collection 12.03.2023	Date of Collection 12.03.2023
1	Hq	IS:3025,P-11, R.A 2009	6.5 - 8.5	6.1	6.3
2.	Colour(Hazen unit)	APHA, 23rd Edn, 2120 B	15	<1.0	<1.0
3	Total Hardness as CaCO <sub>3</sub> ,mg/l	IS 3025 (P-21), R.A. 2006	600	8	28
4	Alkalinity as CaCO <sub>3</sub> ,mg/l	IS 3025 (P-23), R.A. 2014	600	12	32
5	Chlorides as CI, mg/l	IS 3025, P-32	1000	4	4
6	Calcium as Ca, mg/l	APHA 23rd EDN 3500 Ca B	200	3	9.6
7	Magnesium as Mg, mg/l	APHA 23rd EDN 3500 Mg B	100	0.243	0.972
8	Residual Free Chlorine, mg/l	IS 3025, P-34	1.0	<1.0	<1.0
9	Sulphate as SO <sub>4</sub> ,mg/l	APHA, 23rd Edn, 4500 SO <sub>4</sub> E	400	<1.0	4.0
10	Nitrate as NO <sub>3</sub> mg/l	APHA, 23rd Edn, 4500 NO <sub>3</sub> - B	45	0.09	1.6
11	Iron as Fe,mg/l	APHA, 23rd Edn, 3111 B	0.3	0.592	0.555
12	Copper as Cu,mg/l	APHA, 23rd Edn, 3111 B & C	1.5	<0.04	<0.04
13	Manganese as Mn,mg/l	APHA, 23rd Edn, 3111 B	0.3	0.226	0.211
14	Phenolic Compounds C <sub>6</sub> H <sub>5</sub> OH, mg/l	APHA, 23rd Edn, 5530 D	0.002	<0.002	<0.002
15	Zinc as Zn, mg/l	APHA, 23rd Edn, 3111 B & C	15.0	< 0.01	<0.01
16	Cadmium as Cd, mg/l	APHA, 23rd Edn, 3111 B & C	0.003	< 0.003	< 0.003
17	Arsenic as As, mg/l	APHA, 23rd Edn, 3120 B	0.05	< 0.01	< 0.01
18	Cyanide as CN, mg/l	APHA, 23rd Edn, 4500 E	0.05	< 0.05	< 0.05
19	Lead as pb	-	-	< 0.01	<0.01
20	Fluoride as F, mg/l	APHA, 23rd Edn, 4500 F - D	1.5	<0.1	0.164
21	Total Dissolved solids (mg/l)	IS :3025, P-16, RA-2012	2000	13	44
22	Aluminium as Al mg/l	APHA 23rd Edn 3500 Al-B	0.2	<0.2	<0.2
23	Boron as B mg/l	APHA 23rd Edn 4500 B-B	1.0	<1.0	<1.0
24	Mercury as Hg, mg/l	IS 3025, P-48, Mercury Analyser	0.001	< 0.001	< 0.001
25	Turbidity (NTU)	IS 3025 (P-10), R.A. 2006	5	<1.0	<1.0
26	Total Chromium as Cr+6, mg/l	APHA, 23rd Edn, 3500 B	0.05	< 0.05	< 0.05

A. CHATTERJEE This report refers to the values obtained at the time of testing and results related to the demonstrate and gern A. CHATTERJEE This Report shall not be reproduced in part or full without written permission of the management.

Authorised Signatory

3) Liability for return of samples ceases after 15 days from the date of test report.



## SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

LABORATORY:

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Website: www.superintendencecoindia.com GSTIN: 19AAECS3740C2ZJ



## **TEST REPORT**

Report No. N-1326	Date: 12.04.2023
Name and Address of Customer:	M/s. M.G. MOHANTY.  Patabeda Iron & Manganese Mines (19.425 Ha)  Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha
Work-order no. and Date:	MGM/CO/2021/217 Dated:12/.03/2021
Sample receiving date:	23.03.2023
Sub:	Water monitoring
Material:	Drinking Water.
Group:	Water

Date of Date of starting of Test 24.03.2023

CHEMICAL REPORT

Date of completion of Test: 08.04.2023

-				Test Result	
SI. No.	Specific Test Performed	Test Method	Permisibl e limit IS:10500/ 2012	DW1 Mines Canteen	DW2 Patabeda vill (Bore Well)
			( max))	Date of Collection 12.03.2023	Date of Collection 12.03.2023
27	Temperature °C	APHA, 23rd Edn, 2550 B	573	17 °C	17 °C
28	Mineral oil ,mg/l	IS:3025,P-39, R.A 2009	0.5	<0.5	<0.5
29	Odour	IS 3025 (P-06), R.A. 1983	Agreeable	Agreeable	Agreeable
30	Taste •	IS 3025 (P-07), R.A. 1984	Agreeable	Agreeable	Agreeable

Tested by:

A. CHATTERJEE

Authorised Signatory

P. Dutta (Technical Manager)

Note: 1) This report refers to the values obtained at the time of testing and results relate to the items tested.

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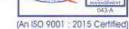
3) Liability for return of samples ceases after 15 days from the date of test report.



## SUPERINTENDENCE COMPANY OF INDIA PRIVATE LIMITED

PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091 @: (033) 2357-1492 / 4670 / 71 / 5039 - 44 • Fax: (033) 2357 - 4806 E-mail: supind50@yahoo.co.in / supind2019@gmail.com

Website: www.superintendencecoindia.com GSTIN: 19AAECS3740C2ZJ



## TEST REPORT

Report No. N- 1326		Date: 12.04.2023
Name and Address of	M/s. M.G. MOHANTY.  Patabeda Iron & Manganese Mines (19.425 Ha)  Patabeda, P.O. Malda, P.S. Koira, Dist.: Sundergarh, Odisha	
Customer:		
Work-order no. and Date:	MGM/CO/2021/217 Dated:12/.03/3	2021
Sample receiving date:	23.03.2023	
Sub:	Water monitoring	
Material:	Drinking Water.	

## TEST RESULT OF BACTERIOLOGICAL

Da	te of starting of Test: 23.03.2023			Date of completion of Test: 10.04.2023  Test Result		
SI. No.	Specific Test Performed	Test Method	Permissible Limits as per 10500:2012	DŴ1 Mines canteen	DW2 Patabeda vill (Bore Well)	
				Date of Collection 12.03.2023	Date of Collection 12.03.2023	
1	Coliform Organism / 100 ml.	As per IS:	Absent/100 ml	Not found / 100ml	Not found / 100ml	
2	E. Coli / 100ml.	1622-81	Absent/100 ml	Not found / 100ml	Not found / 100ml	

Tested by:

R Dasguptar H. Roy

Authorised Signatory

P. Dutta (Technical Manager)

Note: 1) This report refers to the values obtained at the time of testing and results relate to the items tested.

2) This Report shall not be reproduced in part or full without written permission of the management.

3) Liability for return of samples ceases after 15 days from the date of test report.

## WATER TABLE VERIASION DATA OF THE BUFFER ZONE OF PATABEDA IRON AND MANGANESE MINES OVER 19.425 HA. IN PATABEDA VILLAGE OF KOIRA TAHASIL/BLOCK OF SUNDERGARH DISTRICT OF ODISHA

	Location		Dug/Bore Well water level i			Nov 21	
Location/village			Jan 2021	May 21	August 21	3.40	
	Latitude	Longitude		3,50	1.55	3.40	
Ganua	21°55.64	85°22.02	4.18	3.30			
(Open Well)			2.96	3.15	1.30	2.65	
Patabeda	21°55.76	85°21.98	85°21.98	2.50			7.00
(OpenWell)		0=000 17	5.88 1.75	1.75	1.70	2.80	
Ganua	21 <sup>0</sup> 55.31	85°23.17				1.05	
(Open Well) Khandabandha (Open well)		05022.07	3.36	2.58 1.25	1.25	1.65	
	21°55.64	85°23.97	3.30				

			Dug/Bore Well water level in bgl (m)			
ocation/village	Location		Jan 2022	May 22	August 22	1404
	Latitude	Longitude		4.30	1.25	1.80
Ganua (Open Well)	21 <sup>0</sup> 55.64	85 <sup>0</sup> 22.02	2.66	4,30		
				3.60	1.80	2.07
	Patabeda 21°55.76	85°21.98				
(OpenWell)			2.57	4.90	1.95	3.07
Ganua (Open Well)  Khandabandha (Open well)  Copen well)  Copen well	22	85°23.17				
			2.45	3.10	1.60	
	85°23.97	2.45	J.10			

Location/village	Loca	tion	Dug/Bore Well water level in bgl (		
		Longitude	Jan 2023 4.25	May 23 4.80	1.10 1.70
	Latitude				
Ganua	21°55.64	85 <sup>0</sup> 22.02			
(Open Well)		85 <sup>0</sup> 21.98	2.90	3.45	
Patabeda	21 <sup>0</sup> 55.76				
(OpenWell)		85°23.17	3.08	4.15	1.85
Ganua	21°55.31				
(Open Well)		h	2.60	2.95	
Khandabandha (Open well)	21°55.64	85°23.97	2.00		10.

Mines Manager
Patabeda Iron & Manganese
Mines (19 425 Ha)
of M/S. M.G MOHANTY



PHOTOGRAPH OF ROOFTOP WATER HARVESTING PIPELINE



PGOTOGRAPH OF ROOF TOP WATER HARVESTING WELL