

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/2/2022/7300 VALID FROM 11.12.2022 TO 10.12.2024 (APPLICATION No.: 21-4/1896/OR/MIN/2018) FOR PATABEDA IRON ORE MINES (14.00 Ha.) OF M/S M.G. MOHANTY AT/PO: PATABEDA, PO: MALDA SUBDIVISION: BONAI, DISTRICT: SUNDERGARH, ODISHA STATE

Mandatory Conditions:

- 1) 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 photograph of existing borewell and communication details are appended as Annexure-1

- 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 15 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 Kumar Pattaraya

(Authorised Signatory)

- 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 (www.cgwa-noc.gov.in) 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 m³ /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 15 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 Kumar Pattaraya

(Authorised Signatory)

- 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.

- 13) 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 Kumar Pattaraya

(Authorised Signatory)

- 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.

- 25) 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 Kumar Pattanayak

(Authorised Signatory)

- 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 drawal of 15 cum/day of Ground water. Clearance of EAC is not applicable for this project.

Dillip Kumar Pattaraya

(Authorised Signatory)



Annexure -1
DILIP <dillipmgm@gmail.com>

Installation of Digital Flow Meter with telemetry System in Borewell of Patabeda Iron Ore Mines (14.0 ha.) of M/s M G Mohanty

1 message

DILIP <dillipmgm@gmail.com>
To: rdser-cgwb@nic.in

Mon, Nov 7, 2022 at 2:07 PM

To

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

Sub: **Installation of Digital Flow Meter with telemetry System in Borewell of Patabeda Iron Ore Mines (14.0 ha.) of M/s M G Mohanty**

Dear Sir,

With reference to our CGWA NOC. No.: CGWA/NOC/MIN/REN/1/2020/5769 and CGWA/NOC/MIN/REN/2/2022/7300, 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: lkpati@gmail.com
Pass Word: Patabeda1234
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

Attachment: 1. CGWA NOC, 2. Geo-tagged Photo of Borewell fitted with Digital Flow Meter
3. Calibration Certificate

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Dillip Kumar Pattanayak
7440015245

6 attachments

14 ha. flow meter1.jpeg
197K



14 Flow Meter.jpeg
351K



14 Ha. Bore well.jpeg
443K

 **14Ha Callibration.pdf**
21K

 **22 NOC 14 HA..pdf**
541K

 **20 NOC 19.425 HA..PDF**
542K

**Monthly water drawal data of Patabeda Iron Mines
(14.00Ha), M/s M G Mohanty**

Sl. No	Month	Drawal in KL
1	August'20	338.7KL
2	September'20	325.5KL
3	October'20	312.9KL
4	November'20	317.7KL
5	December'20	269.7KL
6	January'21	292.3KL
7	February'21	270.9KL
8	March'21	296.3KL
9	April'21	348.6KL
10	May'21	360.0KL
11	June'21	327.8KL
12	July'21	330.8KL
13	August'21	305.1KL
14	September'21	312.2KL
15	October'21	335.3KL
16	November'21	346.5KL
17	December'21	376.2KL
18	January'22	355.1KL
19	February'22	344.6KL
20	March'22	375.5KL
21	April'22	379.8KL
22	May'22	371.5KL
23	June'22	358.0KL
24	July'22	363.2KL
25	August'22	344.9KL


Mines Manager
Patabeda Iron Mines
(14.000 Hects)
of M/s. M. G. Mohanty

26	September'22	357.0KL
27	October'22	321.6KL
28	November'22	371.3KL
29	December'22	383.1KL
30	January'23	358.8KL
31	February'23	341.9KL
32	March'23	372.4KL
33	April'23	369.3KL
34	May'23	367.7KL
35	June'23	352.5KL
36	July'23	370.9KL
37	August'23	350.1KL
38	September'23	362.4KL


 Mines Manager
 Patabeda Iron Mines
 (14.000 Hects)
 of M/s. M. G. Mohanty



24 Nov 2023 13:05:42
134° SE
Index number: 57



Annexure-2

No. : LHN22D0576

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 Patabeda

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

Quantity	Denomination	Weighing instruments	Measuring instruments	Verification fees	Carriage, Conveyance,
1	Flow meter with totalizer, Capacity (Max) : 1184 liter/min Patabeda Iron Mines 14.00Ha , Make : UPC , Model No. : UPCS MAG 110 , SL No. : 2011501442 Addl Fee R17(2) : Rs.0.00, Addl Fee R17(3) : Rs.0.00			5500.00	500.00

[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. 3381D25AA7 dated 2022-12-21

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 18:27:35 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 re-verified 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
Mines (14.00Ha), M/s M G Mohanty**

Sl. 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 Mines
(14.000 Hects)
of M/s. M. G. Mohanty

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 Mines
(14.000 Hects)
of M/s. M. G. Mohanty



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



(An ISO 9001 : 2015 Certified)



TC-8066

ULR-TC806623000000444F

Report No. N- 1332

Date: 12.04.2023

Name and Address of Customer:

M/s. M.G. MOHANTY,
Patabeda Iron Mines (14.000Ha)
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 of starting of Test 24.03.2023

Date of completion of Test: 08.04.2023

Sl. No.	Specific Test Performed	Test Method	Permissible limit IS:10500/2 012 (max)	Test Result
				DW1 Mines,(Bore Well) Date of Collection 12.03.2023
1	pH	IS :3025,P-11, R.A 2009	6.5 – 8.5	6.3
2	Colour(Hazen unit)	APHA, 23rd Edn, 2120 B	15	<1.0
3	Total Hardness as CaCO ₃ ,mg/l	IS 3025 (P-21), R.A. 2006	600	12
4	Alkalinity as CaCO ₃ ,mg/l	IS 3025 (P-23), R.A. 2014	600	14
5	Chlorides as Cl ⁻ , mg/l	IS 3025, P-32	1000	4
6	Calcium as Ca, mg/l	APHA 23rd EDN 3500 Ca B	200	4.8
7	Magnesium as Mg, mg/l	APHA 23rd EDN 3500 Mg B	100	<0.243
8	Residual Free Chlorine, mg/l	IS 3025, P-34	1.0	<1.0
9	Sulphate as SO ₄ ,mg/l	APHA, 23rd Edn, 4500 SO ₄ E	400	3.0
10	Nitrate as NO ₃ , mg/l	APHA, 23rd Edn, 4500 NO ₃ -B	45	4.2
11	Iron as Fe,mg/l	APHA, 23rd Edn, 3111 B	0.3	0.592
12	Copper as Cu,mg/l	APHA, 23rd Edn, 3111 B & C	1.5	<0.04
13	Manganese as Mn,mg/l	APHA, 23rd Edn, 3111 B	0.3	0.123
14	Phenolic Compounds C ₆ H ₅ OH, mg/l	APHA, 23rd Edn, 5530 D	0.002	<0.002
15	Zinc as Zn, mg/l	APHA, 23rd Edn, 3111 B & C	15.0	<0.01
16	Cadmium as Cd, mg/l	APHA, 23rd Edn, 3111 B & C	0.003	<0.003
17	Arsenic as As, mg/l	APHA, 23rd Edn, 3120 B	0.05	<0.01
18	Cyanide as CN, mg/l	APHA, 23rd Edn, 4500 E	0.05	<0.05
19	Lead as pb	--	-	<0.01
20	Fluoride as F, mg/l	APHA, 23rd Edn, 4500 F – D	1.5	0.204
21	Total Dissolved solids (mg/l)	IS :3025, P-16, RA-2012	2000	19
22	Aluminium as Al mg/l	APHA 23rd Edn 3500 Al-B	0.2	<0.2
23	Boron as B mg/l	APHA 23rd Edn 4500 B-B	1.0	<1.0
24	Mercury as Hg, mg/l	IS 3025, P-48, Mercury Analyser	0.001	<0.001
25	Turbidity (NTU)	IS 3025 (P-10), R.A. 2006	5	<1.0
26	Total Chromium as Cr ⁺⁶ , mg/l	APHA, 23rd Edn, 3500 B	0.05	<0.05

Tested by

Authorised Signatory

A. CHATTERJEE

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.



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



(An ISO 9001 : 2015 Certified)

TEST REPORT

Report No. N- 1332	Date: 12.04.2023
Name and Address of Customer:	M/s. M.G. MOHANTY. Patabeda Iron Mines (14.000Ha) Patabeda, P.O. Malda, P.S. Koiria, 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 starting of Test 13.12.2022

CHEMICAL REPORT

Date of completion of Test: 13.12.2022

Sl. No.	Specific Test Performed	Test Method	Permissible limit IS:10500/2012 (max))	Test Result
				DW1 Mines, (Bore Well) Date of Collection 12.03.2023
27	Temperature °C	APHA, 23rd Edn, 2550 B	-	15 °C
28	Mineral oil ,mg/l	IS :3025,P-39, R.A 2009	0.5	<0.5
29	Odour	IS 3025 (P-06), R.A. 1983	Agreeable	Agreeable
30	Taste	IS 3025 (P-07), R.A. 1984	Agreeable	Agreeable

Tested by:

A. CHATTERJEE

Authorised Signatory

P. Dutta (Technical Manager)

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PLOT NO. Y-23, BLOCK-EP, SECTOR-V, SALT LAKE CITY, KOLKATA-700 091
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E-mail : supind50@yahoo.co.in / supind2019@gmail.com
Website : www.superintendencecoindia.com
GSTIN : 19AAECS3740C2ZJ



(An ISO 9001 : 2015 Certified)

TEST REPORT

Report No. N- 1332	Date: 12.04.2023
Name and Address of Customer:	M/s. M.G. MOHANTY. Patabeda Iron Mines (14.000Ha) 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.

TEST RESULT OF BACTERIOLOGICAL

Date of starting of Test: 23.03.2023

Date of completion of Test:10.04.2023

Sl. No.	Specific Test Performed	Test Method	Permissible Limits as per 10500:2012	Test Result
				DW1 Mines,(Bore Well) Date of Collection 12.03.2023
1	Coliform Organism / 100 ml.	As per IS: 1622-81	Absent/100 ml	Not found / 100ml
2	E. Coli / 100ml.		Absent/100 ml	Not found / 100ml

Tested by:

R Dasgupta

H. Roy

Authorised Signatory

P. Dutta (Technical Manager)

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Annexure-6

**WATER TABLE VARIATION DATA OF THE BUFFER ZONE OF PATABEDA IRON ORE MINE OVER 14 HA.
IN PATABEDA VILLAGE OF KOIRA TAHASIL/BLOCK OF SUNDERGARH DISTRICT OF ODISHA**

Location/village	Location		Dug/Bore Well water level in bgl (m)			
	Latitude	Longitude	Jan 2021	May 21	August 21	Nov 21
Ganua (Open Well)	21°55.64	85°22.02	4.18	3.50	1.55	3.40
Patabeda (OpenWell)	21°55.76	85°21.98	2.96	3.15	1.30	2.65
Ganua (Open Well)	21°55.31	85°23.17	5.88	1.75	1.70	2.80
Khandabandha (Open well)	21°55.64	85°23.97	3.36	2.58	1.25	1.65

Location/village	Location		Dug/Bore Well water level in bgl (m)			
	Latitude	Longitude	Jan 2022	May 22	August 22	Nov 22
Ganua (Open Well)	21°55.64	85°22.02	2.66	4.30	1.25	1.80
Patabeda (OpenWell)	21°55.76	85°21.98	2.40	3.60	1.80	2.07
Ganua (Open Well)	21°55.31	85°23.17	2.57	4.90	1.95	3.07
Khandabandha (Open well)	21°55.64	85°23.97	2.45	3.10	1.60	1.84

Location/village	Location		Dug/Bore Well water level in bgl (m)		
	Latitude	Longitude	Jan 2023	May 23	August 23
Ganua (Open Well)	21°55.64	85°22.02	4.25	4.80	1.10
Patabeda (OpenWell)	21°55.76	85°21.98	2.90	3.45	1.70
Ganua (Open Well)	21°55.31	85°23.17	3.08	4.15	1.85
Khandabandha (Open well)	21°55.64	85°23.97	2.60	2.95	1.55


 Mines Manager
 Patabeda Iron Mines
 (14.000 Hects)
 of M/s. M. G. Mohanty



PHOTOGRAPH OF ROOFTOP WATER HARVESTING PIPELINE



PGOTOGRAPH OF ROOF TOP WATER HARVESTING WELL