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**Odisha
Coal and
Power
Limited**

Odisha Coal and Power Limited
(A Government of Odisha Company)
CIN: U10100OR20155GC018823
Website: www.ocpl.org.in

RECLAMATION PLAN FOR THE DEVELOPMENT OF DIP-SIDE MANOHARPUR COAL MINE BLOCK

Odisha Coal and Power Limited (OCPL) is a Government Company of State of Odisha (Joint Venture of OPGC and OHPC) which has been allocated two captive coal blocks named as Manoharpur and Dip-side Manoharpur coal block. The Manoharpur coal block is contiguous blocks to Dip-side Manoharpur and having common boundary. Hence, it is planned to extract the coal from Manoharpur Coal Block at the first instance.

As per the approved Mining plan of Manoharpur and Dip-Side Manoharpur Coal Mine (Revision-III, September 2019), both the coal blocks are integrated into one mine. The revised & approved Mining Plan provides that the Dip-side Manoharpur Coal Block should not be considered for independent mining. This block being located towards dip-side can technically be mined as a continuation of mining of Manoharpur Block, using the same mine entry & haul road of Manoharpur Mine. The approved Mining Plan also mentions that the coal produced in excess from the Integrated Mining Plan of Manoharpur and Dip-side Manoharpur will be treated as the coal produced from the Dip-side Manoharpur and accordingly be dealt as per the provisions laid in the Allotment Agreement.

Hence, the reclamation plan prepared as per the approved Mining Plan (Rev III) is as per below:

Land use management planning through proper reclamation activity

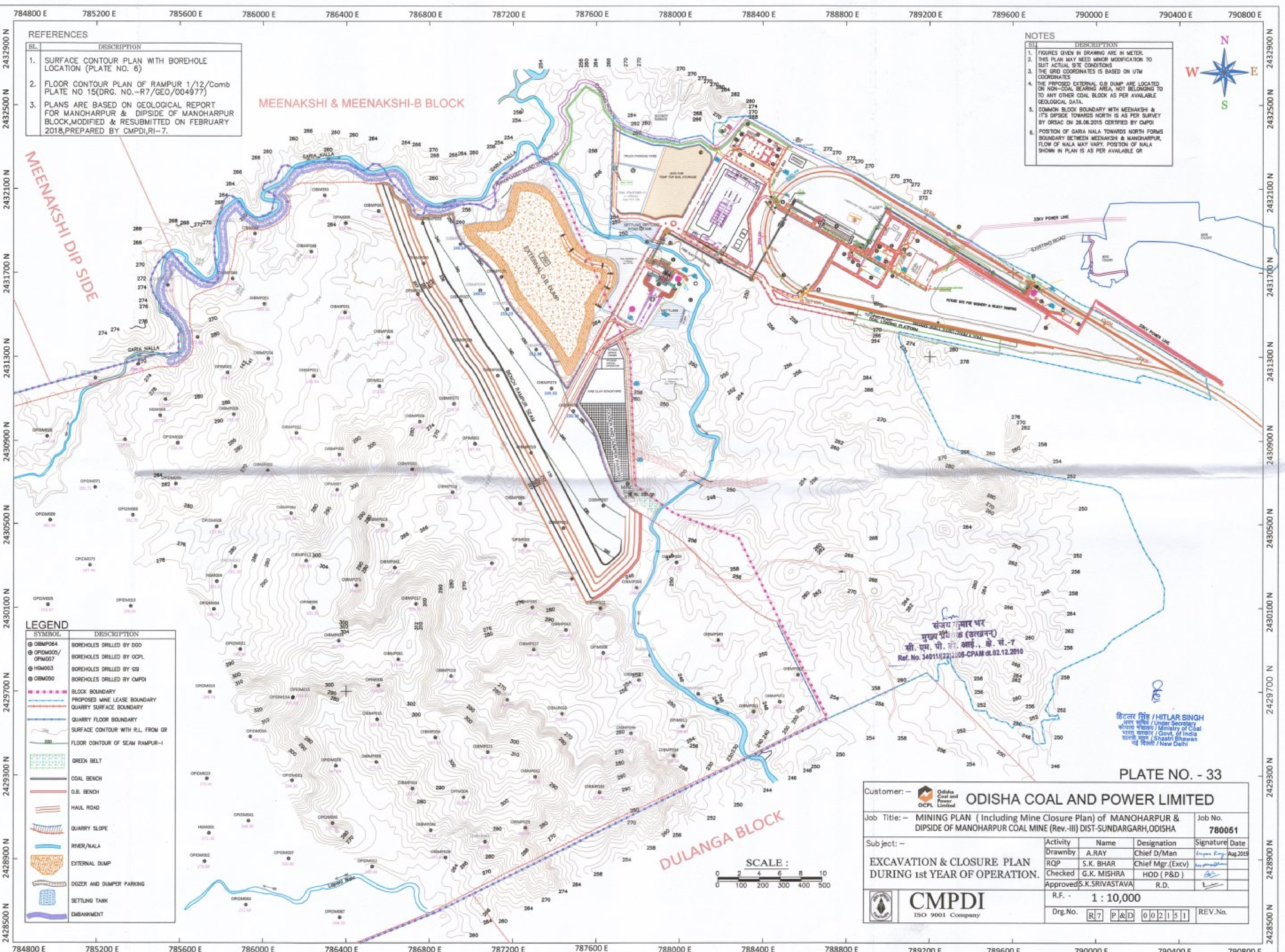
Land degradation is one of the major adverse outcomes of opencast mining activities and any effort to control adverse impact is considered incomplete when appropriate land reclamation strategy is not adopted. Therefore, necessary steps have been taken for the reclamation of the area. Reclamation programme shall be carried out simultaneously with excavation. The post mining land use of core zone shows that all the disturbed area will be reclaimed upto maximum possible extent before abandoning the mine. At the end of mine life, major portion of the total excavated area will be backfilled. Thus, conservation of land is achieved till mine closure. The pre-mining land records of project area shows the forest land within the project area. These forests are going to get disturbed due to mining activities after getting the forest clearance from

the competent authority. After closure of mine and carrying out reclamation activity, the forest land proposed for diversion will be returned back as forest. The land reclamation will be carried out in two distinct phases (i) Physical/technical reclamation and (ii) Biological reclamation. During the physical / technical reclamation process, the geometrical shape of the dumps is altered to make it amenable to effective biological reclamation and also to provide safety and stability while during the biological reclamation of the reclaimed area, preference will be given to endemic species and mixed culture.

The species which have been recommended in approved MP for plantation purpose of the reclaimed area are Bel, Siris, Chitwan, Kanthal, Neem, Shisham, Jarul, Mahua, Aam, Amla, Jangal Jalebi, Debbaru, Putranjiva, Jam, Arjun, Bahera, Adusa, Lal Kaner, Nisinda and Mehendi.

As per the approved MP, during the period from Year-2 to Year-19; External dumps would be created. External dumping again will have to be done between year 24 to year 31, during this time upper two tiers of external dump will be formed. Reclamation of External dumps will start from the beginning of third year and will continue up to 35th year. The internal dump will be reclaimed as soon as it attains original ground level. The top soil shall be spread over it and the plantation will be done systematically. About 1600 plants will be planted per ha. of reclaimed area. Further, the reclamation map showing the back filling and afforestation area for the 3rd, 5th, 10th, 20th, 30th, 40th year and final stage reclamation plan is attached along with the proposal (refer File Vol. II).


Addl. General Manager (Minas)
Odisha Coal and Power Ltd.



- REFERENCES
1. SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
 2. FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO 15(DRG. NO.-R7/GEO/004977)
 3. PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK,MODIFIED & RESUBMITTED ON FEBRUARY 2018,PREPARED BY CMPDI,RI-7.

- NOTES
1. FIGURES GIVEN IN DRAWING ARE IN METER.
 2. THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS
 3. THE GRID COORDINATES IS BASED ON UTM COORDINATES
 4. THE PROPOSED EXTERNAL O.B DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.
 5. COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY ORSAC ON 28.06.2015 CERTIFIED BY CMPDI
 6. POSITION OF GARIA NALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR, FLOW OF NALA MAY VARY. POSITION OF NALA SHOWN IN PLAN IS AS PER AVAILABLE GR



LEGEND

SYMBOL	DESCRIPTION
⊙ OBMPO04	BOREHOLES DRILLED BY DGO
⊙ OBMPO05/ OBMPO07	BOREHOLES DRILLED BY OCPL
⊙ OBMPO03	BOREHOLES DRILLED BY GS
⊙ OBMPO06	BOREHOLES DRILLED BY CMPDI
—	BLOCK BOUNDARY
—	PROPOSED MINE LEASE BOUNDARY
—	QUARRY SURFACE BOUNDARY
—	QUARRY FLOOR BOUNDARY
—	SURFACE CONTOUR WITH R.L. FROM GR
—	FLOOR CONTOUR OF SEAM RAMPUR-I
—	GREEN BELT
—	COAL BENCH
—	O.B. BENCH
—	HAUL ROAD
—	QUARRY SLOPE
—	RIVER/NALA
—	EXTERNAL DUMP
—	DOZER AND DUMPER PARKING
—	SETTLING TANK
—	EMBANKMENT

संजय कुमार भार
मुख्य प्रबंधक (उत्खनन)
सी. एम. पी. ओ. आई. डी. से. 7
Ref. No. 34811/22/2005-CPAM dt.02.12.2010

हिटलर सिंह / HITLAR SINGH
वरत सचिव / Under Secretary
कोयला मंत्रालय / Ministry of Coal
भारत सरकार / Govt. of India
श्रीधर भूषण / (Shri) Bhushan
नई दिल्ली / New Delhi

SCALE :
0 2 4 6 8 10
0 100 200 300 400 500

Customer: — **ODISHA COAL AND POWER LIMITED**

Job Title: — **MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-III) DIST-SUNDARGARH,ODISHA**

Job No. **780051**

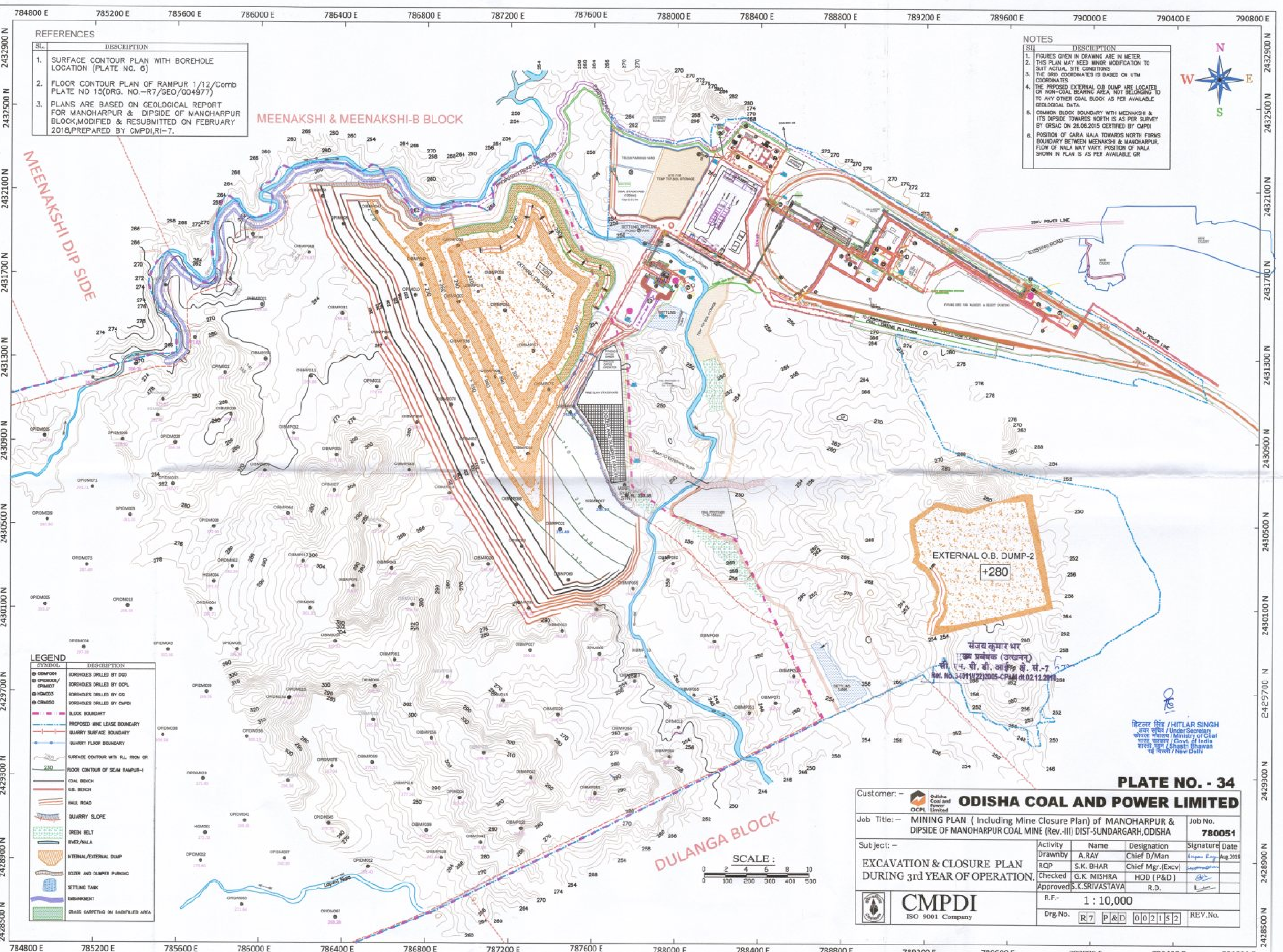
Subject: — **EXCAVATION & CLOSURE PLAN DURING 1st YEAR OF OPERATION.**

Activity	Name	Designation	Signature	Date
Drawnby	A.RAY	Chief D/Man		Aug 2019
RQP	S.K. BHAR	Chief Mgr.(Excav)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K.SRIVASTAVA	R.D.		

R.F. - **1 : 10,000**

Drg.No. **R7 P&D 002151** REV.No.

CMPDI
ISO 9001 Company



- REFERENCES
- | Sl. | DESCRIPTION |
|-----|---|
| 1. | SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6) |
| 2. | FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO 15(DRG. NO.-R7/GEO/004977) |
| 3. | PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK,MODIFIED & RESUBMITTED ON FEBRUARY 2018,PREPARED BY CMPDI,RI-7. |

- NOTES
- | Sl. | DESCRIPTION |
|-----|--|
| 1. | FIGURES GIVEN IN DRAWING ARE IN METER. |
| 2. | THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS |
| 3. | THE GRID COORDINATES IS BASED ON UTM COORDINATES |
| 4. | THE PROPOSED EXTERNAL O.B. DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA. |
| 5. | COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY ORSAC ON 26.08.2015 CERTIFIED BY CMPDI |
| 6. | POSITION OF GARIA NALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR, FLOW OF NALA MAY VARY, POSITION OF NALA SHOWN IN PLAN IS AS PER AVAILABLE GR |

- LEGEND
- | SYMBOL | DESCRIPTION |
|--------|------------------------------------|
| ● | BOREHOLES DRILLED BY DGO |
| ● | BOREHOLES DRILLED BY OCL |
| ● | BOREHOLES DRILLED BY GS |
| ● | BOREHOLES DRILLED BY CMPI |
| --- | BLOCK BOUNDARY |
| --- | PROPOSED MINE LEASE BOUNDARY |
| --- | QUARRY SURFACE BOUNDARY |
| --- | QUARRY FLOOR BOUNDARY |
| --- | SURFACE CONTOUR WITH R.L. FROM GR |
| --- | FLOOR CONTOUR OF SEAM RAMPUR-I |
| --- | COAL BENCH |
| --- | O.B. BENCH |
| --- | RAIL ROAD |
| --- | QUARRY SLOPE |
| --- | GREEN BELT |
| --- | RIVER/NALA |
| --- | INTERNAL/EXTERNAL DUMP |
| --- | ODDER AND DUMPER PARKING |
| --- | SETTLING TANK |
| --- | EMBANKMENT |
| --- | GRASS CARPETING ON BACKFILLED AREA |



Customer: - **ODISHA COAL AND POWER LIMITED**

Job Title: - **MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-III) DIST-SUNDARGARH,ODISHA**

Subject: - **EXCAVATION & CLOSURE PLAN DURING 3rd YEAR OF OPERATION.**

Job No. **780051**

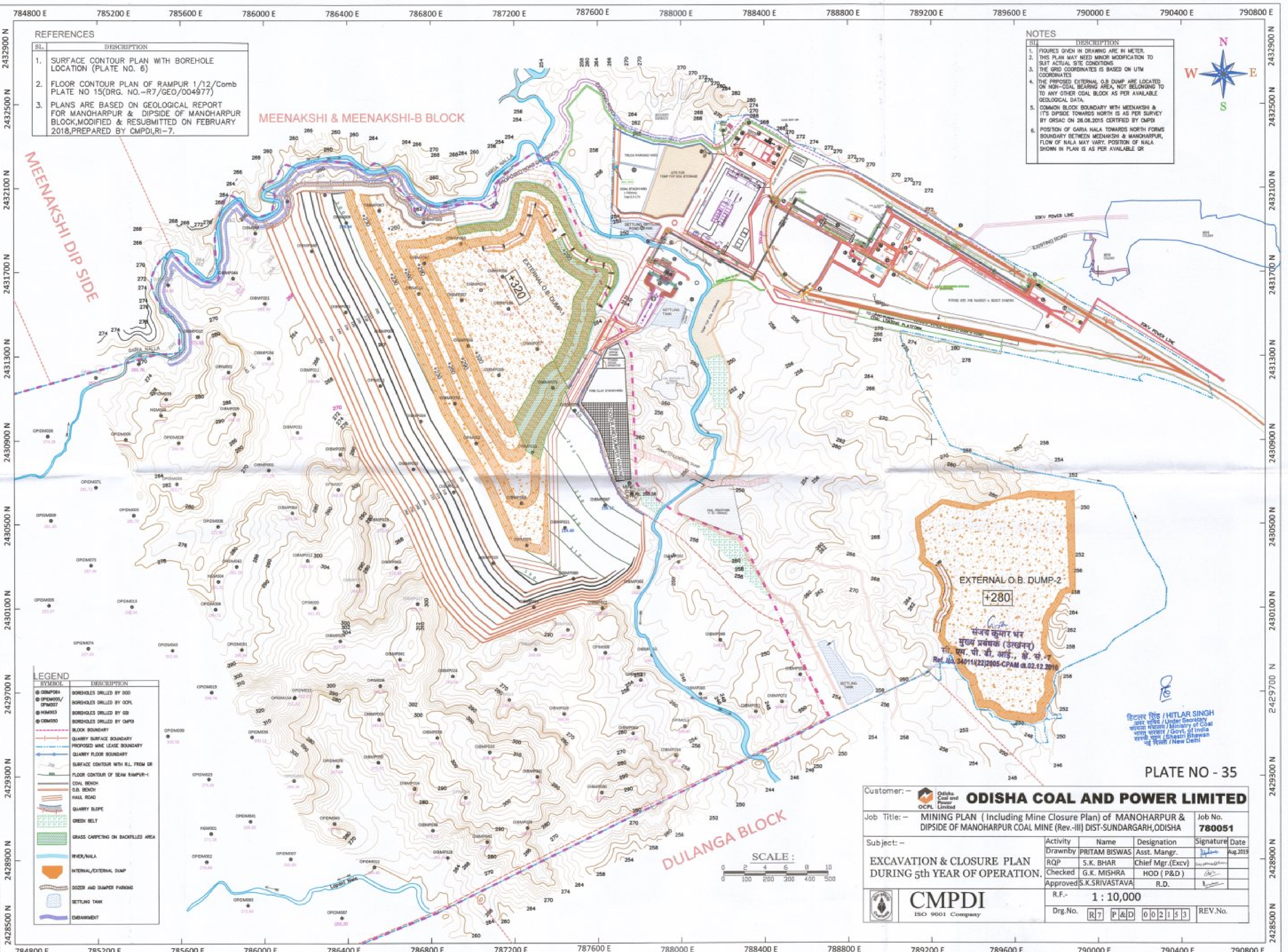
Activity	Name	Designation	Signature	Date
Drawnby	A.RAY	Chief D/Man		Aug 2019
ROP	S.K. BHAR	Chief Mgr.(Excv)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K.SRIVASTAVA	R.D.		

R.F.- **1 : 10,000**

Drg.No. **R7 P&D 002152** REV.No.

CMPDI
ISO 9001 Company

Hitlar Singh / HITLAR SINGH
Joint Secy / Under Secretary
Ministry of Coal
Govt. of India
New Delhi / New Delhi



Sl.	DESCRIPTION
1.	SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
2.	FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO 15(DRG. NO.-R7/GEO/004977)
3.	PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK, MODIFIED & RESUBMITTED ON FEBRUARY 2018, PREPARED BY CMPDI, RI-7.

Sl.	DESCRIPTION
1.	FIGURES GIVEN IN DRAWING ARE IN METER.
2.	THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS.
3.	THE GRID COORDINATES IS BASED ON UTM COORDINATES.
4.	THE PROPOSED EXTERNAL O.B DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.
5.	COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY ORSAC ON 28.06.2015 CERTIFIED BY CMPDI.
6.	POSITION OF GARHA NALLA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR, FLOW OF NALLA MAY VARY. POSITION OF NALLA SHOWN IN PLAN IS AS PER AVAILABLE OR



SYMBOL	DESCRIPTION
OPM001	BOREHOLES DRILLED BY DDO
OPM002/OPM007	BOREHOLES DRILLED BY OCPL
OPM003	BOREHOLES DRILLED BY GSI
OPM004	BOREHOLES DRILLED BY CMPS
OPM005	BLOCK BOUNDARY
OPM006	QUARRY SURFACE BOUNDARY
OPM007	PROPOSED MINE LEASE BOUNDARY
OPM008	QUARRY FLOOR BOUNDARY
OPM009	SURFACE CONTOUR WITH R.L. FROM GR
OPM010	FLOOR CONTOUR OF SEAM RAMPUR-1
OPM011	COAL BENCH
OPM012	O.B. BENCH
OPM013	HALL ROAD
OPM014	QUARRY SLOPE
OPM015	GREEN BELT
OPM016	GRASS CARPETING ON BACKFILLED AREA
OPM017	RIVER/NALLA
OPM018	INTERNAL/EXTERNAL DUMP
OPM019	DOZER AND DUMPER PARKING
OPM020	SETTLING TANK
OPM021	EMBANKMENT

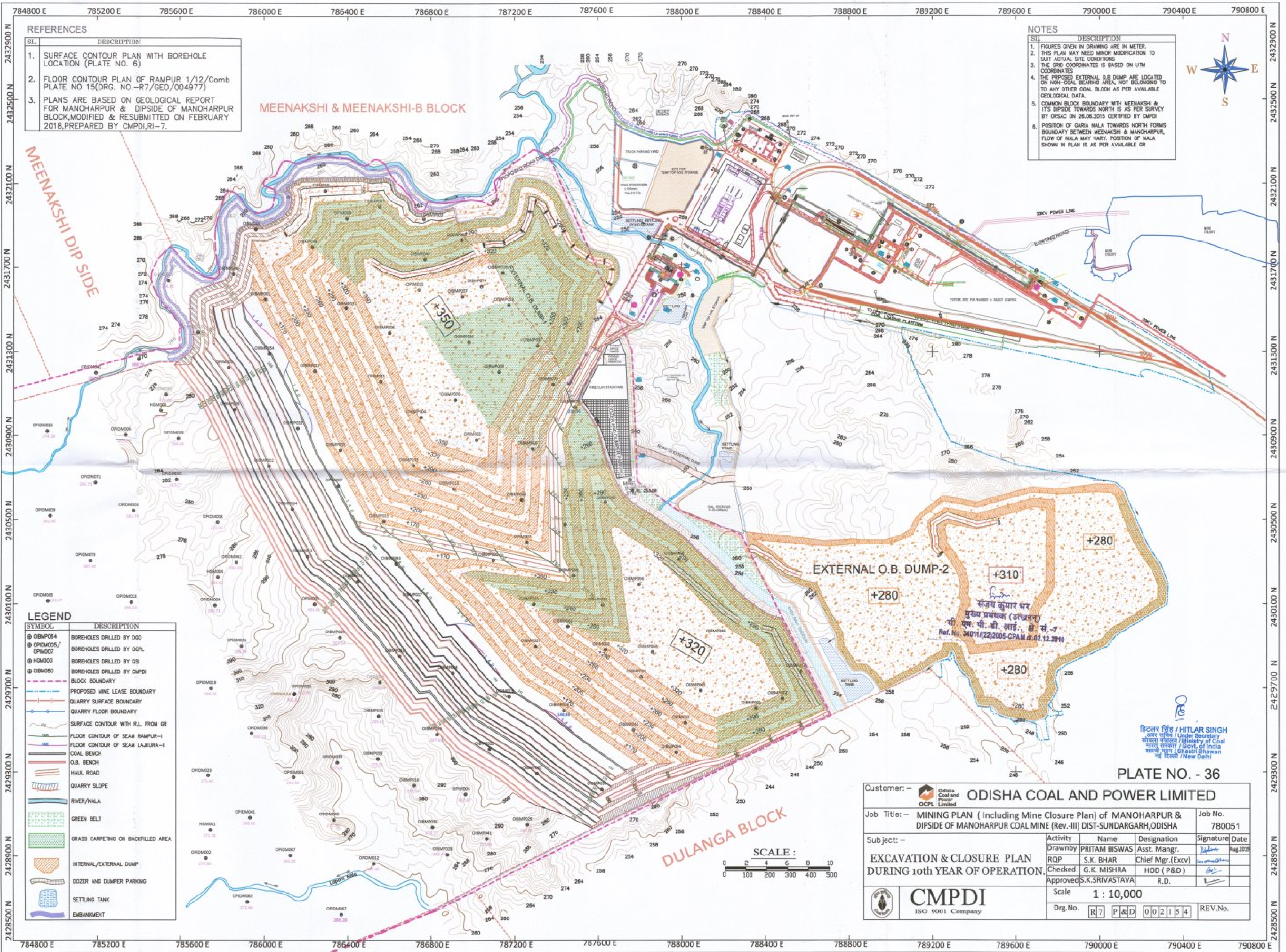


हिटर सिंह / HITLAR SINGH
अवर सचिव / Under Secretary
राज्य सरकार / Ministry of Coal
भारत सरकार / Govt. of India
नई दिल्ली / New Delhi

PLATE NO - 35

Customer: - ODISHA COAL AND POWER LIMITED	
Job Title: - MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-III) DIST-SUNDARGARH, ODISHA	Job No. 780051
Subject: - EXCAVATION & CLOSURE PLAN DURING 5th YEAR OF OPERATION.	Activity Name Designation Signature Date Drawnby PRITAM BISWAS Asst. Mangr. Aug.2013 RQP S.K. BHAR Chief Mgr.(Excav) Checked G.K. MISHRA HOD (P&D) Approved S.K.SRIVASTAVA R.D.
R.F.- 1 : 10,000	
Drg.No. R7 P&D 002153	REV.No.





Sl.	DESCRIPTION
1.	SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
2.	FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO 15(DRG. NO.-R7/GEO/004977)
3.	PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK,MODIFIED & RESUBMITTED ON FEBRUARY 2018,PREPARED BY CMPDI,RI-7.

Sl.	DESCRIPTION
1.	FIGURES GIVEN IN DRAWING ARE IN METER.
2.	THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS
3.	THE GRID COORDINATES IS BASED ON UTM COORDINATES
4.	THE PROPOSED EXTERNAL O.B. DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.
5.	COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY ORSAC ON 26.06.2015 CERTIFIED BY CMPDI
6.	POSITION OF GARIA MALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR, FLOW OF MALA MAY VARY. POSITION OF MALA SHOWN IN PLAN IS AS PER AVAILABLE GR

SYMBOL	DESCRIPTION
● OBM004	BORHOLE DRILLED BY DGO
● OBM005/ OBM007	BORHOLE DRILLED BY OCL
● HGM003	BORHOLE DRILLED BY GS
● OBM050	BORHOLE DRILLED BY CMPDI
---	BLOCK BOUNDARY
---	PROPOSED MINE LEASE BOUNDARY
---	QUARRY SURFACE BOUNDARY
---	QUARRY FLOOR BOUNDARY
---	SURFACE CONTOUR WITH R.L. FROM GR
---	FLOOR CONTOUR OF SEAM RAMPUR-I
---	FLOOR CONTOUR OF SEAM LAJURA-II
---	COAL BENCH
---	O.B. BENCH
---	HAUL ROAD
---	QUARRY SLOPE
---	RIVER/MALA
---	GREEN BELT
---	GRASS CARPETING ON BACKFILLED AREA
---	INTERNAL/EXTERNAL DUMP
---	DOZER AND DUMPER PARKING
---	SETTLING TANK
---	EMBANKMENT

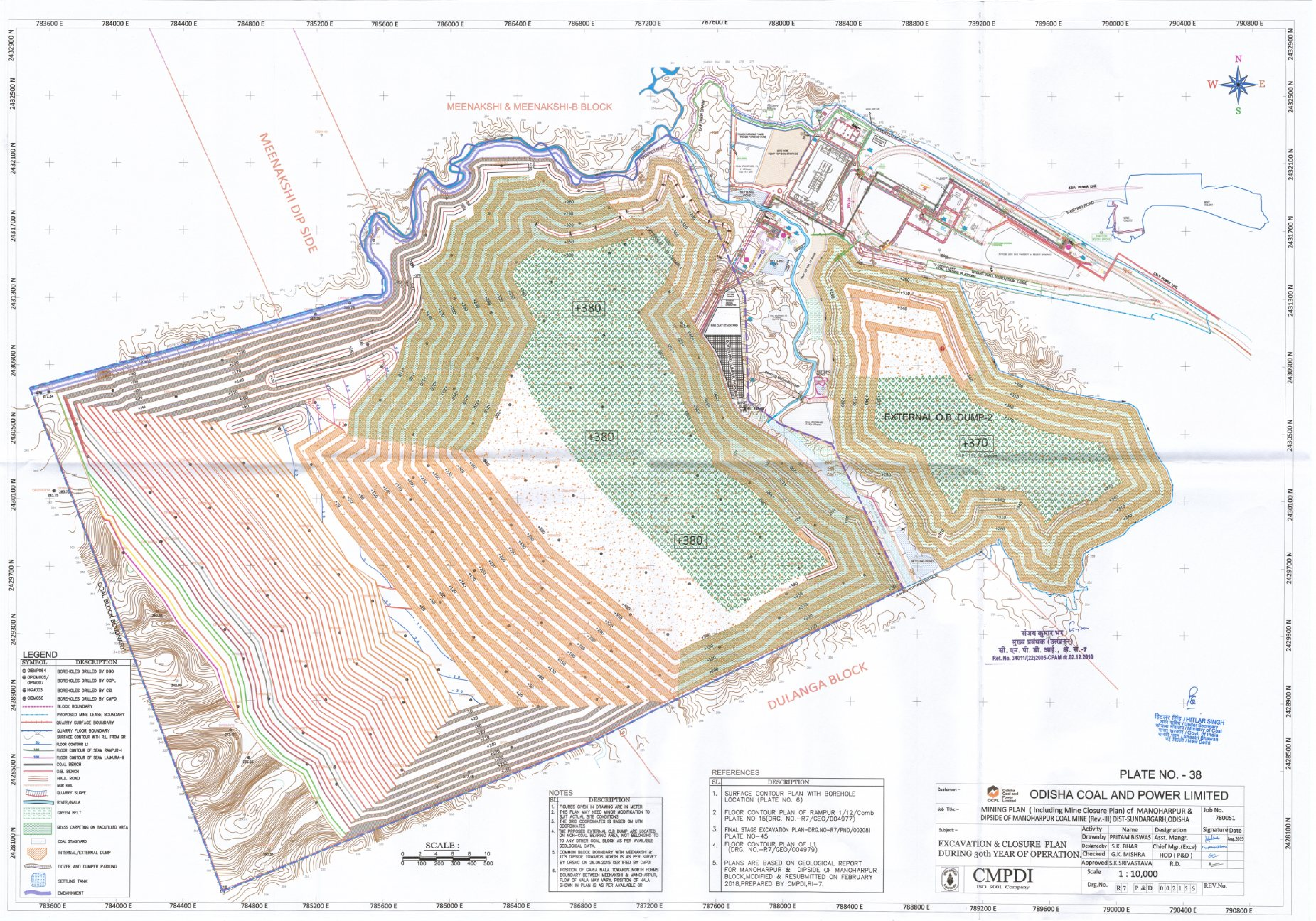
Customer: ODISHA COAL AND POWER LIMITED				
Job Title: MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-III) DIST-SUNDARGARH,ODISHA			Job No. 780051	
Subject: EXCAVATION & CLOSURE PLAN DURING 10th YEAR OF OPERATION.				
Activity	Name	Designation	Signature	Date
Drawnby	PRITAM BISWAS	Asst. Mangr.		Aug.2018
RQP	S.K. BHAR	Chief Mgr.(Excav)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K.SRIVASTAVA	R.D.		
Scale 1 : 10,000				
Drg.No. R7 P&D 002154		REV.No.		



हिटरल सिंह / HITLAR SINGH
अवर सचिव / Under Secretary
संयुक्त प्रबंधक / Ministry of Coal
भारत सरकार / Govt. of India
शास्त्री भवन / Shastri Bhawan
नई दिल्ली / New Delhi

PLATE NO. - 36





LEGEND

SYMBOL	DESCRIPTION
●	BORHOLES DRILLED BY DGO
●	BORHOLES DRILLED BY OCPL
●	BORHOLES DRILLED BY CSI
●	BORHOLES DRILLED BY CMPDI
---	PROPOSED MINE LEASE BOUNDARY
---	QUARRY SURFACE BOUNDARY
---	QUARRY FLOOR BOUNDARY
---	SURFACE CONTOUR WITH R.L. FROM OR
---	FLOOR CONTOUR L1
---	FLOOR CONTOUR OF SEAM RAMPUR-I
---	FLOOR CONTOUR OF SEAM LAKURA-I
---	COAL BENCH
---	O.B. BENCH
---	HAUL ROAD
---	WGR RAIL
---	QUARRY SLOPE
---	RIVER/NALA
---	GREEN BELT
---	GRASS CARPETING ON BACKFILL AREA
---	COAL STOCKYARD
---	INTERNAL/EXTERNAL DUMP
---	DOZER AND DUMPER PARKING
---	SETTLING TANK
---	EMBANKMENT



NOTES

1. FIGURES GIVEN IN DRAWING ARE IN METER.

2. THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS.

3. THE GRID COORDINATES IS BASED ON UTM COORDINATES.

4. THE PROPOSED EXTERNAL O.B. DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.

5. BY ORSAC ON 25.06.2015 CERTIFIED BY CMPDI.

6. POSITION OF GARIA NALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR, FLOW OF NALA MAY VARY. POSITION OF NALA SHOWN IN PLAN IS AS PER AVAILABLE OR.

REFERENCES

SL.	DESCRIPTION
1.	SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
2.	FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO 15(DRG. NO.-R7/GEO/004977)
3.	FINAL STAGE EXCAVATION PLAN-DRG.NO-R7/PND/002081 PLATE NO-45
4.	FLOOR CONTOUR PLAN OF L1 (DRG. NO.-R7/GEO/004979)
5.	PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK,MODIFIED & RESUBMITTED ON FEBRUARY 2018,PREPARED BY CMPDI,RI-7.

Customer:- **ODISHA COAL AND POWER LIMITED**

Job Title:- MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-II) DIST-SUNDARGARH,ODISHA

Job No.: 780051

Subject:- EXCAVATION & CLOSURE PLAN DURING 30th YEAR OF OPERATION.

Activity	Name	Designation	Signature	Date
Drawnby	PRITAM BISWAS	Asst. Mangr.		Aug-2019
Designedby	S.K. BHAR	Chief Mgr.(Excav)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K.SRIVASTAVA	R.D.		

Scale: 1 : 10,000

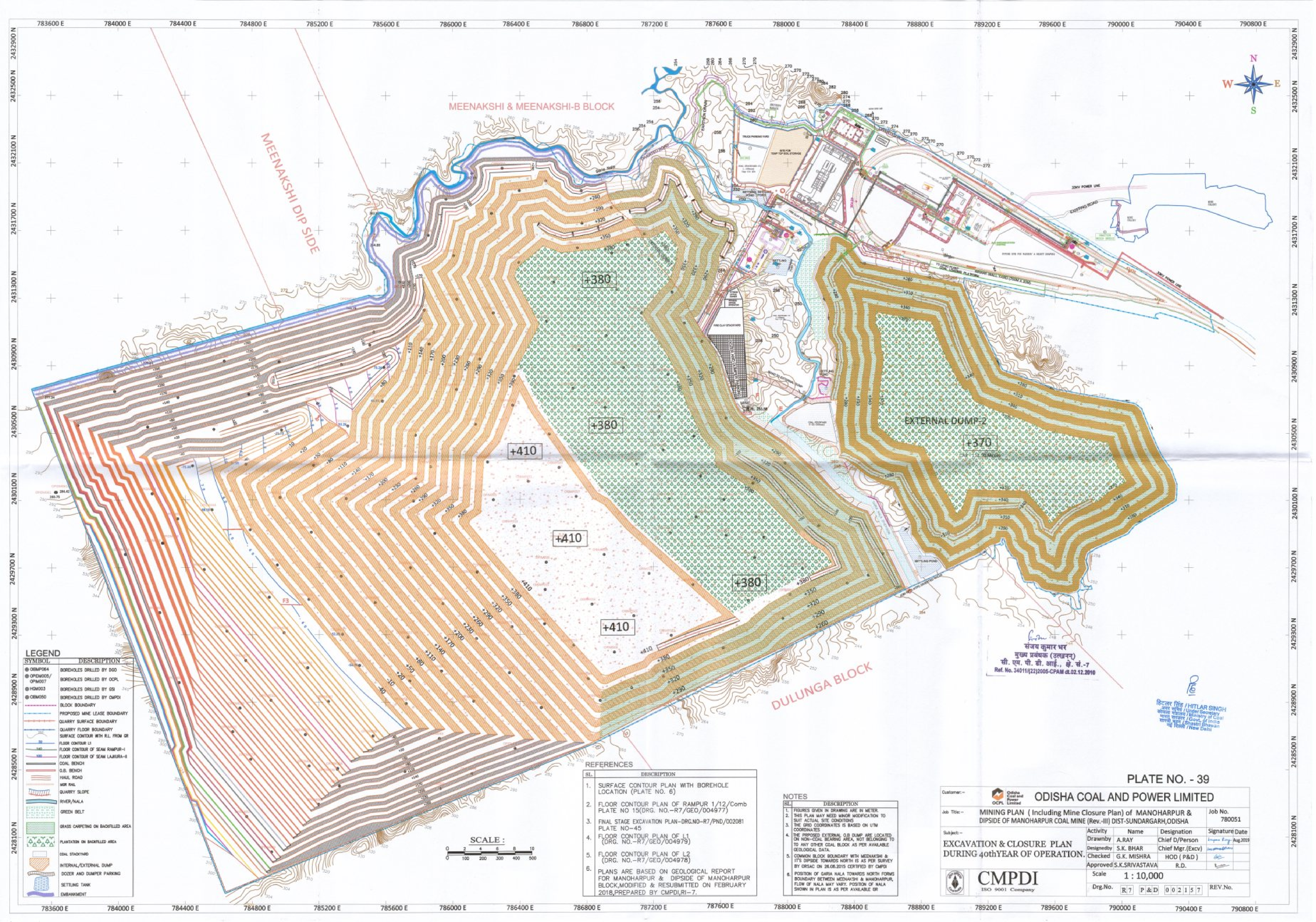
Drp.No.: R7 P&D 002156 **REV.No.:**

CMPDI
ISO 9001 Company

PLATE NO. - 38

संजय कुमार भार
मुख्य प्रबंधक (उत्खनन)
सी. एम. पी. डी. आई., ब्लॉक-7
Ref. No. 34011/(22)2005-CPAM dt.02.12.2010

हिटलर सिंह / HITLAR SINGH
अवर सचिव / Under Secretary
मंत्रालय / Ministry of Coal
भारत सरकार / Govt. of India
शांति नगर / Shanti Nagar
नई दिल्ली / New Delhi



LEGEND

SYMBOL	DESCRIPTION
● OBM064	BOREHOLES DRILLED BY DDO
● OBM005/ OBM007	BOREHOLES DRILLED BY OCL
● OBM003	BOREHOLES DRILLED BY GS
● OBM030	BOREHOLES DRILLED BY CMPDI
---	BLOCK BOUNDARY
---	PROPOSED MINE LEASE BOUNDARY
---	QUARRY SURFACE BOUNDARY
---	QUARRY FLOOR BOUNDARY
---	SURFACE CONTOUR WITH R.L. FROM OR
---	FLOOR CONTOUR L1
---	FLOOR CONTOUR OF SEAM RAMPUR-I
---	FLOOR CONTOUR OF SEAM LAJURA-II
---	COAL BENCH
---	O.B. BENCH
---	HAUL ROAD
---	WGR RAIL
---	QUARRY SLOPE
---	RIVER/NALA
---	GREEN BELT
---	GRASS CARPETING ON BACKFILLED AREA
---	PLANTATION ON BACKFILLED AREA
---	COAL STOCKYARD
---	INTERNAL/EXTERNAL DUMP
---	DOZER AND DUMPER PARKING
---	SETTLING TANK
---	EMBANKMENT



REFERENCES

SL.	DESCRIPTION
1.	SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
2.	FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb PLATE NO. 15(DRG. NO.-R7/GEO/004977)
3.	FINAL STAGE EXCAVATION PLAN-DRG.NO-R7/PND/002081 PLATE NO-45
4.	FLOOR CONTOUR PLAN OF L1 (DRG. NO.-R7/GEO/004979)
5.	FLOOR CONTOUR PLAN OF L2 (DRG. NO.-R7/GEO/004978)
6.	PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK,MODIFIED & RESUBMITTED ON FEBRUARY 2018,PREPARED BY CMPDI,RI-7.

NOTES

1. FIGURES GIVEN IN DRAWING ARE IN METERS.

2. THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS.

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4. THE PROPOSED EXTERNAL O.B. DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.

5. COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY OCLAC ON 26.06.2015 CERTIFIED BY CMPDI.

6. POSITION OF GARIA NALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR. FLOW OF NALA MAY VARY. POSITION OF NALA SHOWN IN PLAN IS AS PER AVAILABLE OR

Customer:- **ODISHA COAL AND POWER LIMITED**

Job Title:- MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev.-III) DIST-SUNDARGARH,ODISHA

Job No. 780051

Subject:- EXCAVATION & CLOSURE PLAN DURING 40th YEAR OF OPERATION

Activity	Name	Designation	Signature	Date
Drawn by	A.RAY	Chief D/Person		Aug-2025
Designed by	S.K. BHAR	Chief Mgr.(Exc)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K.SRIVASTAVA	R.D.		

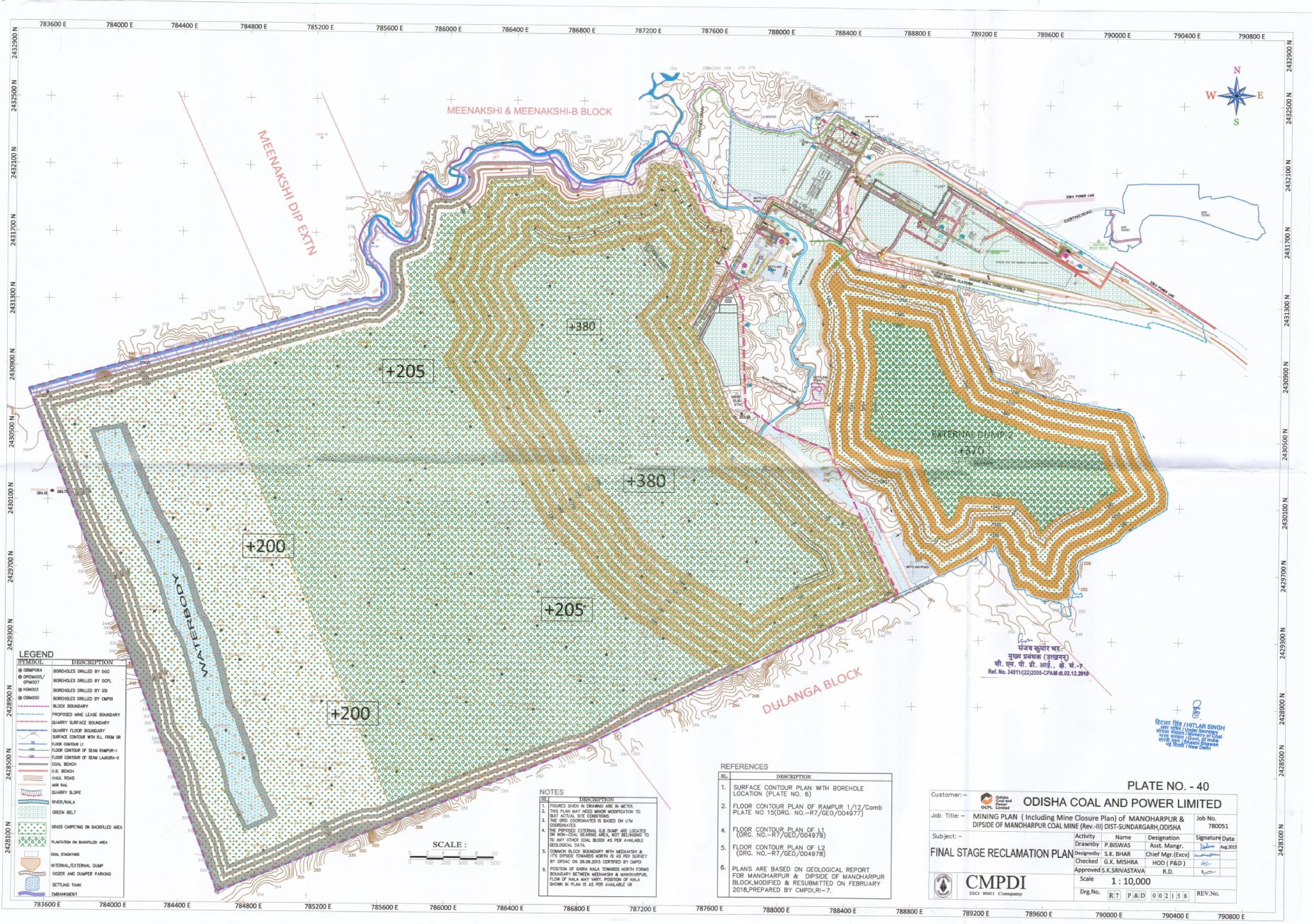
Scale 1 : 10,000

Drp.No. R7 P&D 002157 **REV.No.**

CMPDI
ISO 9001 Company

संजय कुमार भार
मुख्य प्रबंधक (उत्खनन)
सी. एम. पी. को. आई., से. सं.-7
Ref. No. 34011/22/2005-CPAM dt.02.12.2016

हिंदार सिंह / HITLAR SINGH
असिस्टेंट सचिव / Under Secretary
कोयला विभाग / Ministry of Coal
भारत सरकार / Govt. of India
शास्त्री भवन / Shastri Bhawan
नई दिल्ली / New Delhi



LEGEND

SYMBOL	DESCRIPTION
DBM004	BOREHOLES DRILLED BY DGO
DBM005/DBM007	BOREHOLES DRILLED BY OCP
DBM003	BOREHOLES DRILLED BY DB
DBM050	BOREHOLES DRILLED BY CMPDI
---	BLOCK BOUNDARY
---	PROPOSED MINE LEASE BOUNDARY
---	QUARRY SURFACE BOUNDARY
---	QUARRY FLOOR BOUNDARY
---	SURFACE CONTOUR WITH R.L. FROM GR
---	FLOOR CONTOUR L1
---	FLOOR CONTOUR OF SEAM RAMPUR-I
---	FLOOR CONTOUR OF SEAM LAKURA-II
---	COAL BENCH
---	O.S. BENCH
---	HAUL ROAD
---	WGR RAIL
---	QUARRY SLOPE
---	RIVER/NALA
---	GREEN BELT
---	GRASS CARPETING ON BACKFILLED AREA
---	PLANTATION ON BACKFILLED AREA
---	COAL STOCKYARD
---	INTERNAL/EXTERNAL DUMP
---	DOZER AND DUMPER PARKING
---	SETTLING TANK
---	EMBANKMENT

NOTES

1. FIGURES GIVEN IN DRAWING ARE IN METERS.

2. THIS PLAN MAY NEED MINOR MODIFICATION TO SUIT ACTUAL SITE CONDITIONS.

3. THE GRID COORDINATES IS BASED ON UTM COORDINATES.

4. THE PROPOSED EXTERNAL O.B. DUMP ARE LOCATED ON NON-COAL BEARING AREA, NOT BELONGING TO ANY OTHER COAL BLOCK AS PER AVAILABLE GEOLOGICAL DATA.

5. COMMON BLOCK BOUNDARY WITH MEENAKSHI & ITS DIPSIDE TOWARDS NORTH IS AS PER SURVEY BY OCPDI ON 26.06.2015 CERTIFIED BY CMPDI.

6. POSITION OF DARA NALA TOWARDS NORTH FORMS BOUNDARY BETWEEN MEENAKSHI & MANOHARPUR. FLOW OF NALA MAY VARY. POSITION OF NALA SHOWN IN PLAN IS AS PER AVAILABLE OR

- REFERENCES**
1. SURFACE CONTOUR PLAN WITH BOREHOLE LOCATION (PLATE NO. 6)
 2. FLOOR CONTOUR PLAN OF RAMPUR 1/12/Comb (PLATE NO 15(DRG. NO.-R7/GEO/004977))
 4. FLOOR CONTOUR PLAN OF L1 (DRG. NO.-R7/GEO/004979)
 5. FLOOR CONTOUR PLAN OF L2 (DRG. NO.-R7/GEO/004978)
 6. PLANS ARE BASED ON GEOLOGICAL REPORT FOR MANOHARPUR & DIPSIDE OF MANOHARPUR BLOCK, MODIFIED & RESUBMITTED ON FEBRUARY 2018, PREPARED BY CMPDI, RI-7.

Customer: **ODISHA COAL AND POWER LIMITED**

Job Title: **MINING PLAN (Including Mine Closure Plan) of MANOHARPUR & DIPSIDE OF MANOHARPUR COAL MINE (Rev-III) DIST-SUNDARGARH, ODISHA**

Subject: **FINAL STAGE RECLAMATION PLAN**

Job No. **780051**

Activity	Name	Designation	Signature	Date
Drawn by	P.BISWAS	Asst. Mangr.		Aug.2019
Designed by	S.K. BHAR	Chief Mgr.(Exc)		
Checked	G.K. MISHRA	HOD (P&D)		
Approved	S.K. SRIVASTAVA	R.D.		

Scale **1 : 10,000**

Org.No. **R7 P&D 002158** REV.No.

CMPDI
ISO 9001 Company

PLATE NO. - 40