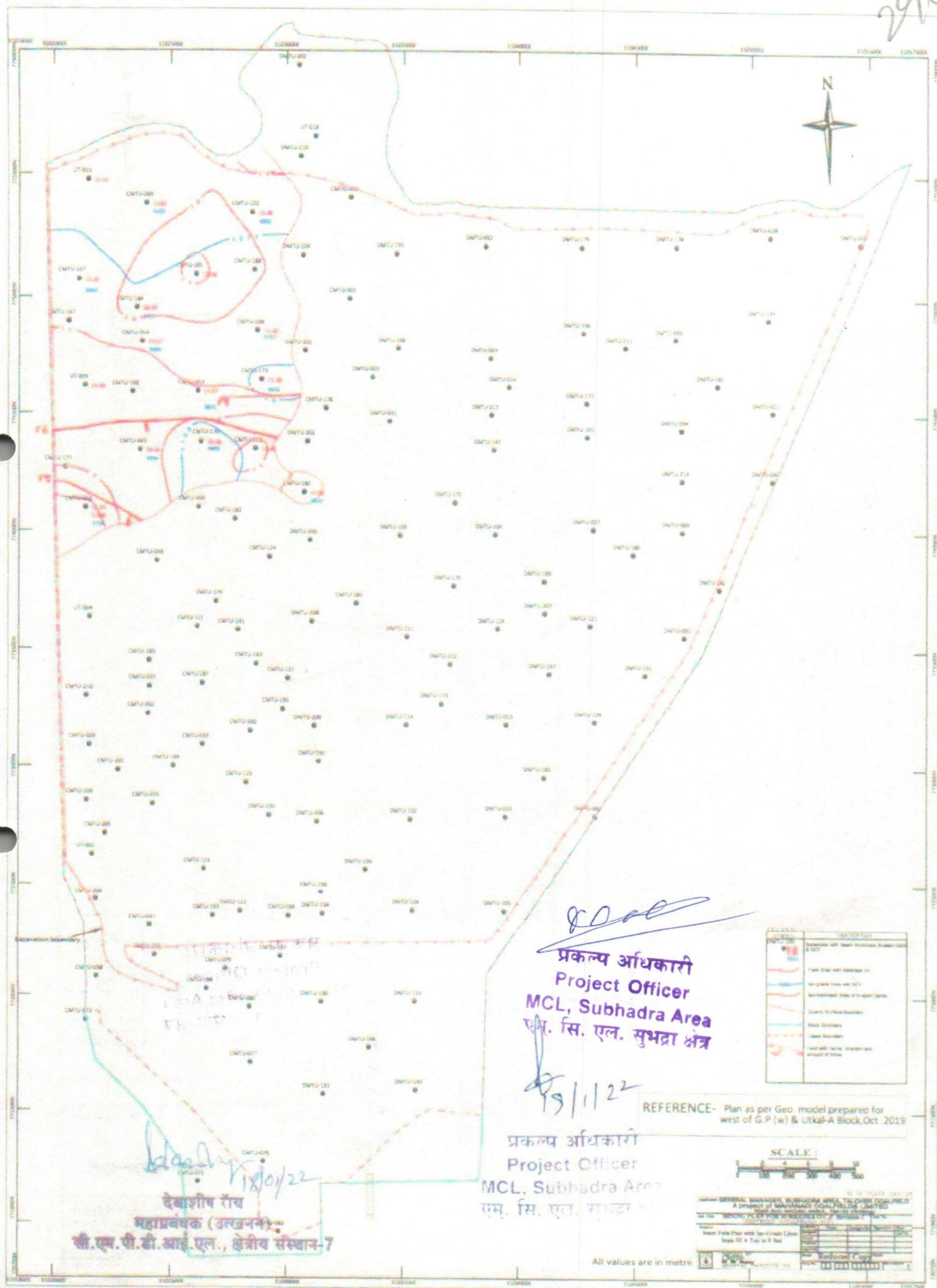
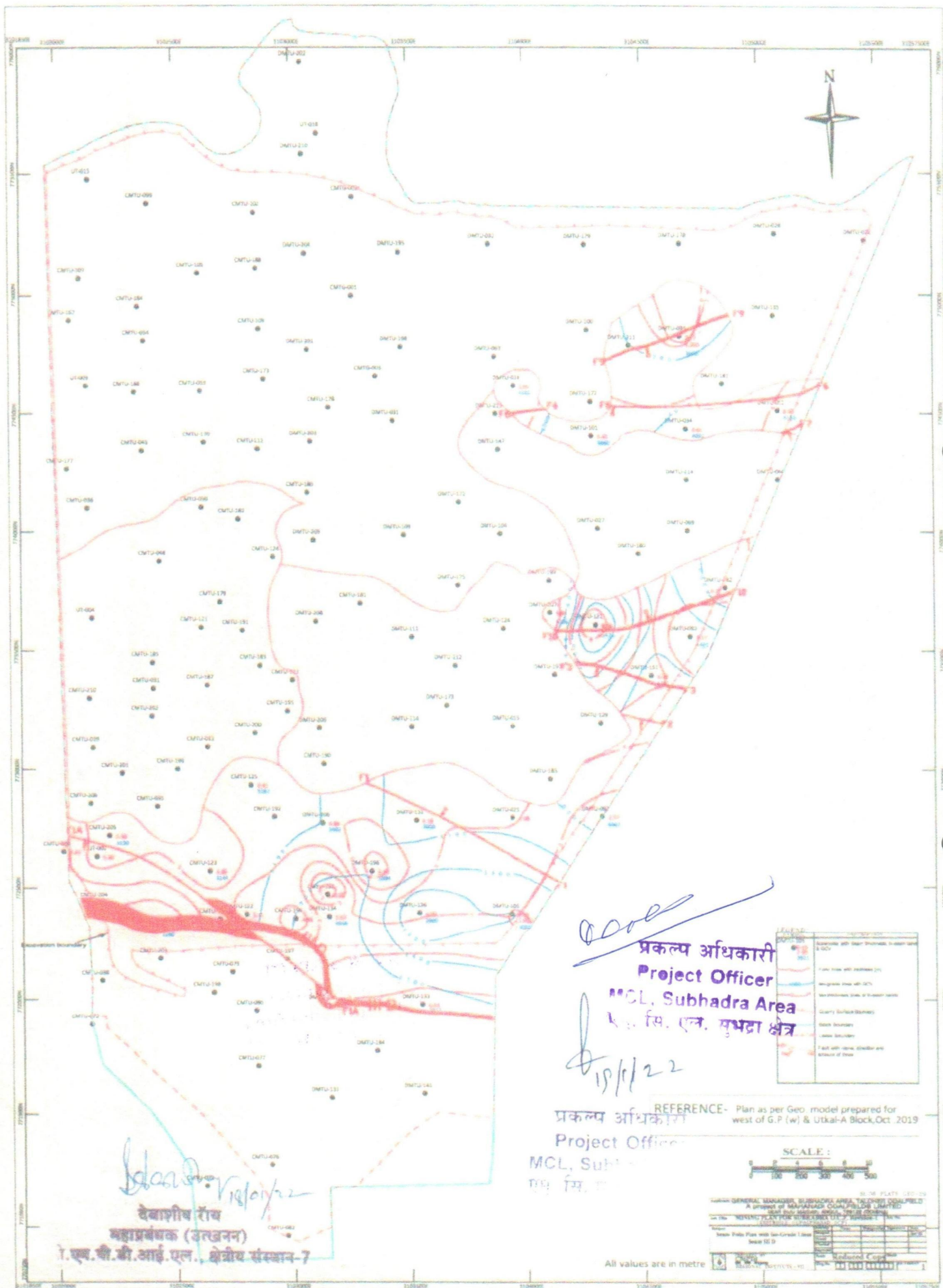
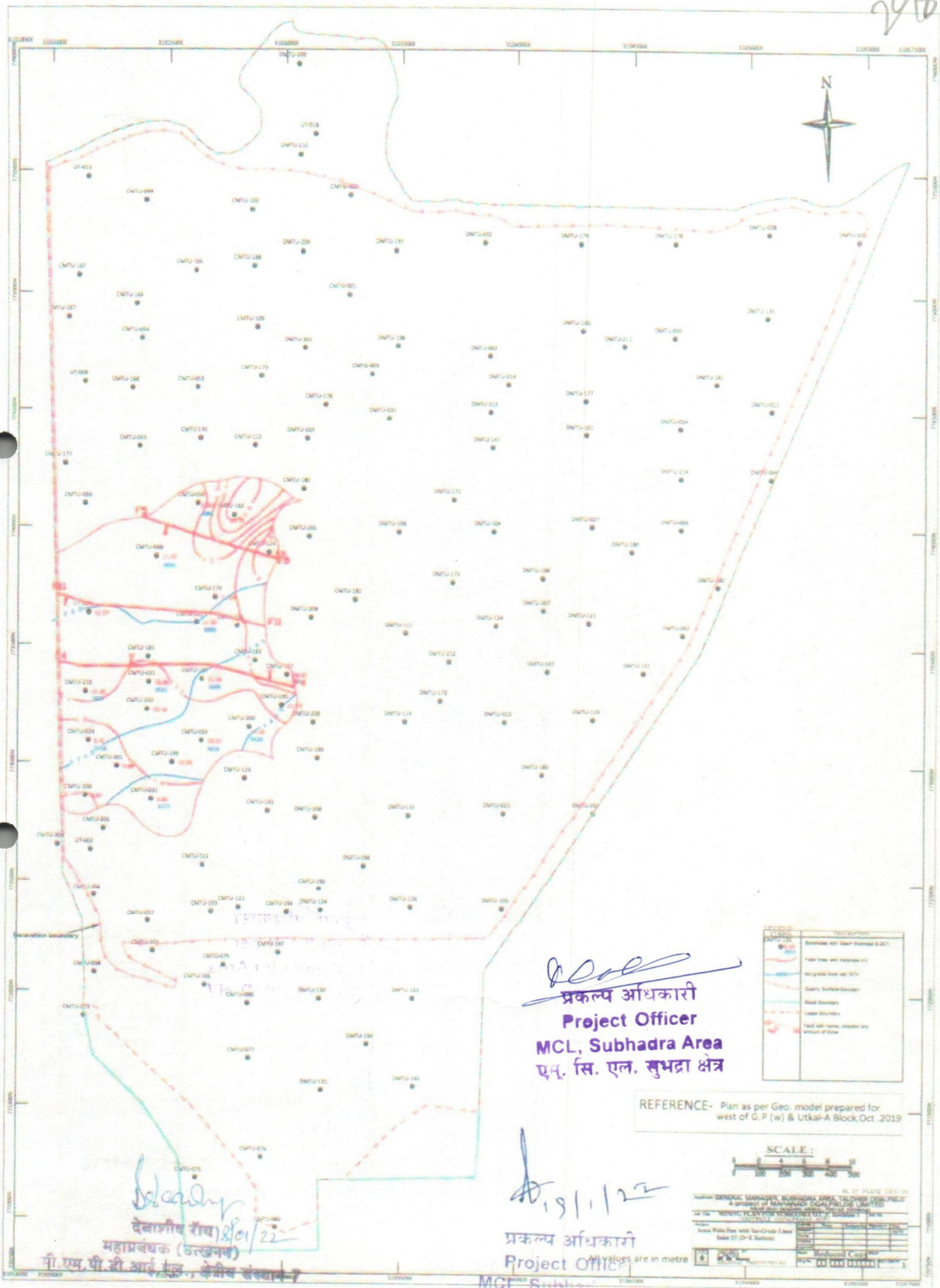






208

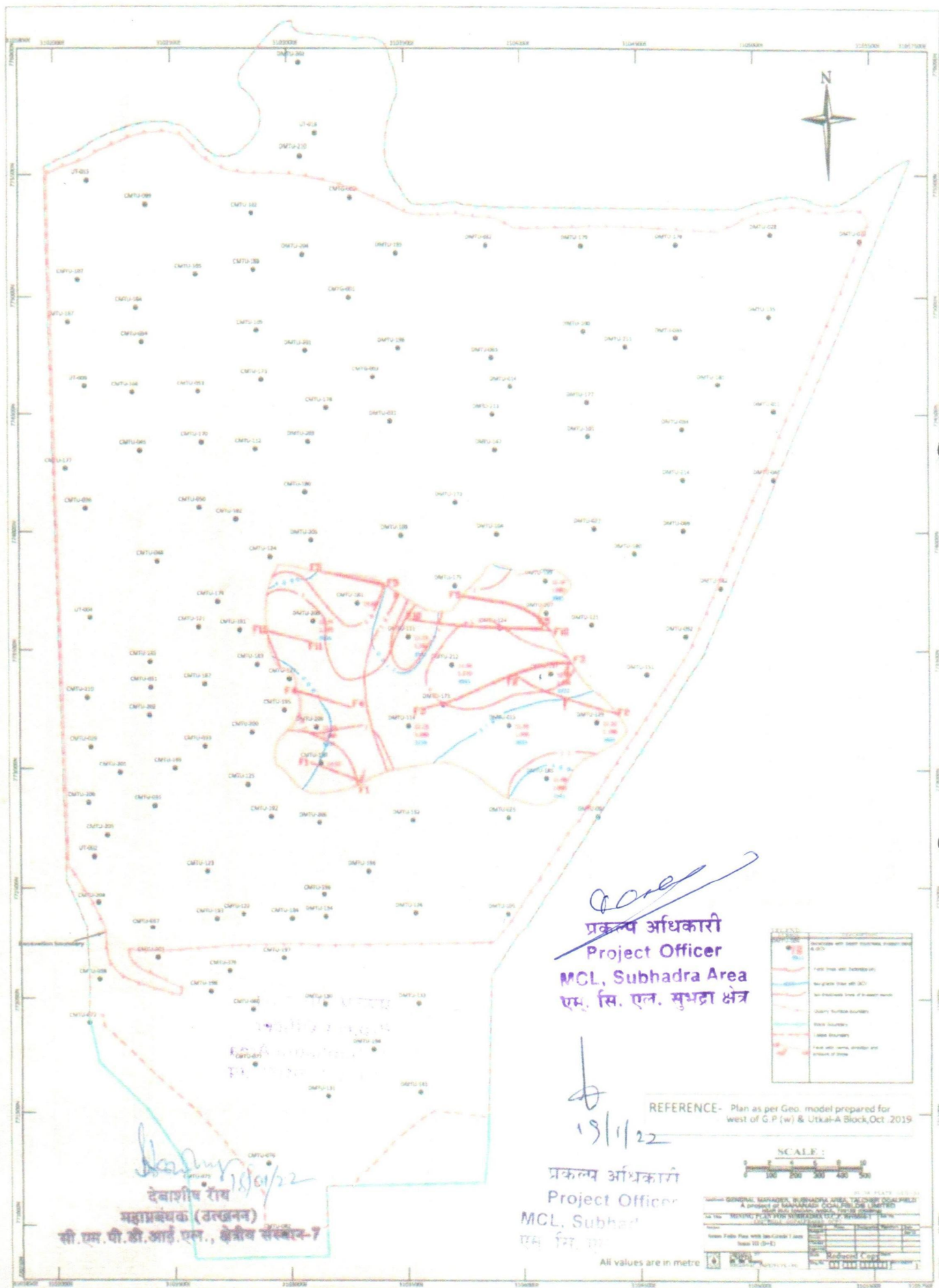


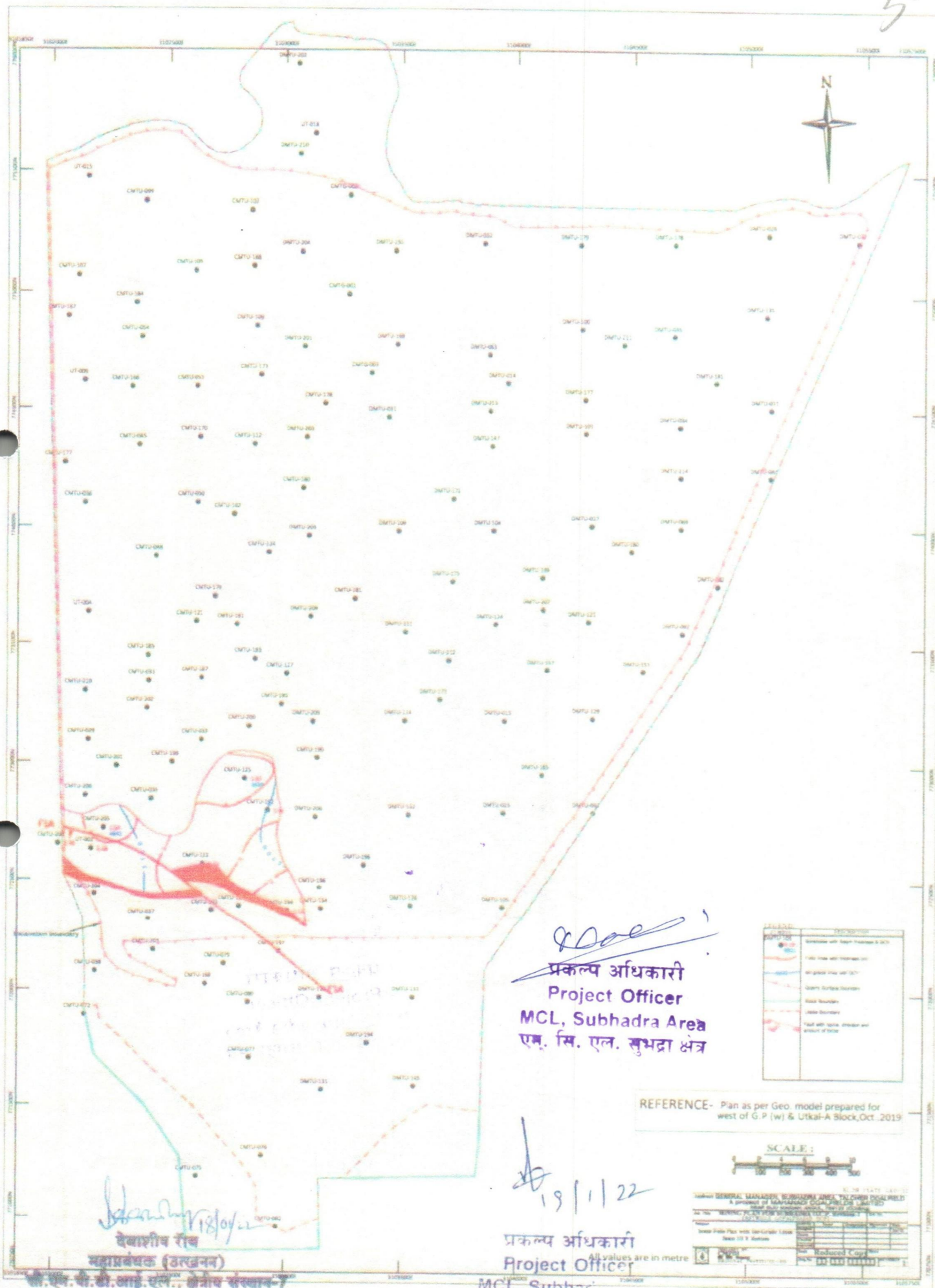
[Signature]
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एच. सि. एन. सुभद्रा क्षेत्र

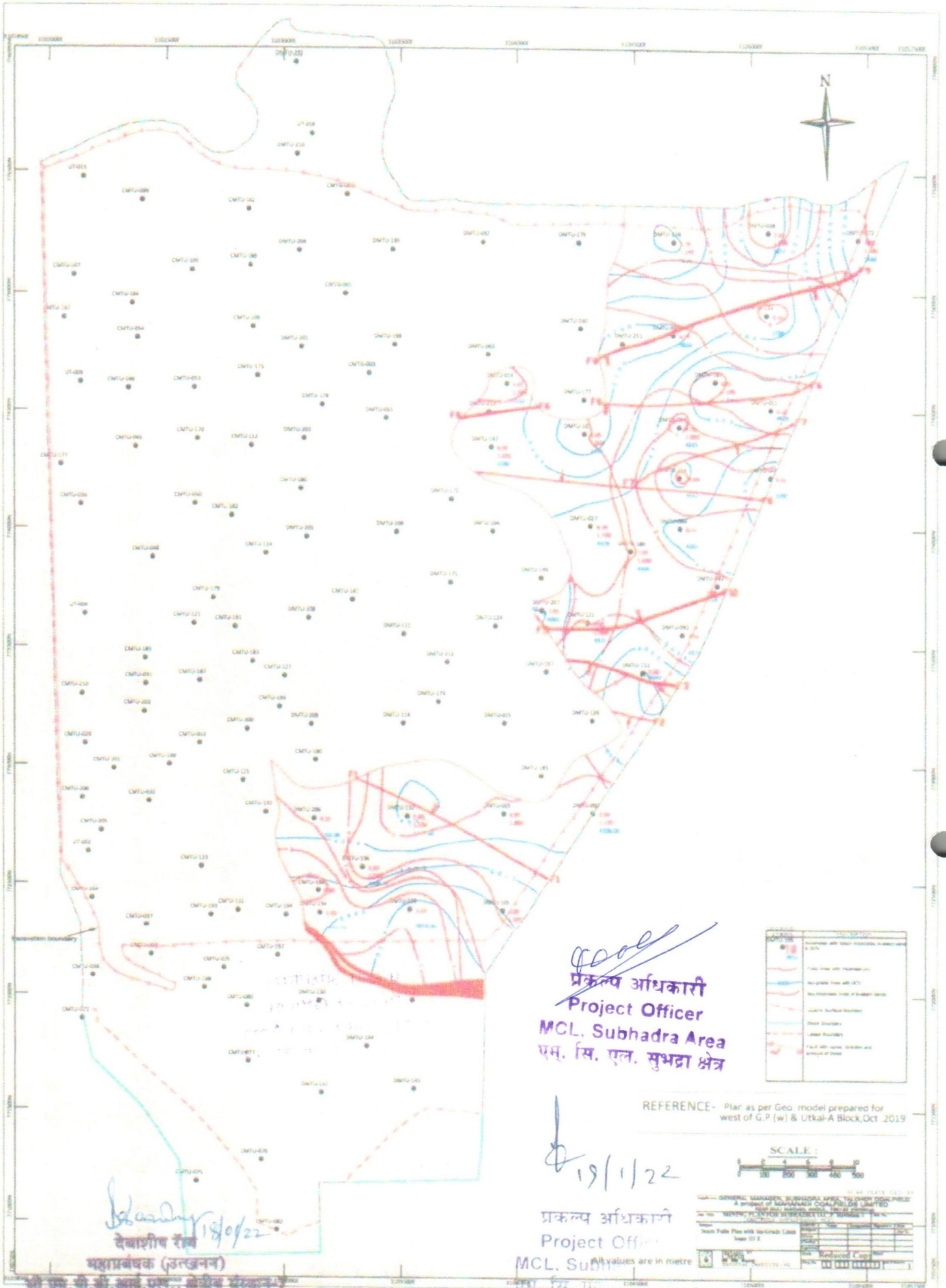
[Signature]
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एच. सि. एन. सुभद्रा क्षेत्र

[Signature]
देवाश्री रॉय
महाप्रबंधक (उत्खनन)
सी.एम.पी.डी.आई.एन. क्षेत्रीय संस्थान

Sl. No.	Name	Designation	Signature	Date
1	General Manager	Subhadra Area		
2	Project Officer	Subhadra Area		
3	Block Boundary			
4	Crack Boundary			
5	Fault with name, direction and amount of throw			







प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

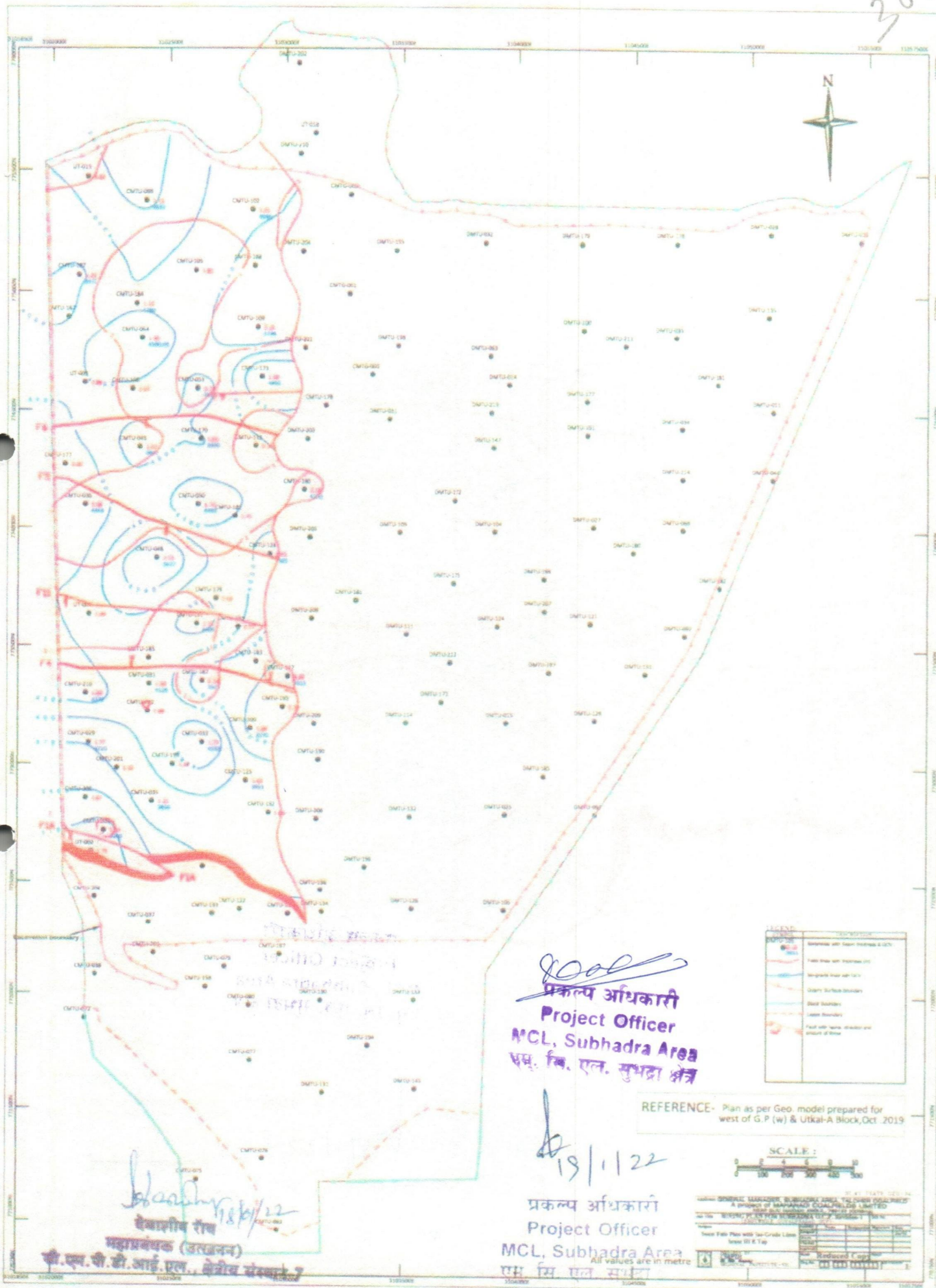
Symbol	Description
[Red line]	Boundary with Subhadra, Baramunda & S.C.
[Blue line]	Water line with thickness 100
[Green line]	Neighbourhood line with 100
[Yellow line]	Neighbourhood line of Subhadra
[Pink line]	Locality Boundary
[Blue line]	Road Boundary
[Green line]	Land Boundary
[Red line]	Field with name, location and boundary of Choudhary

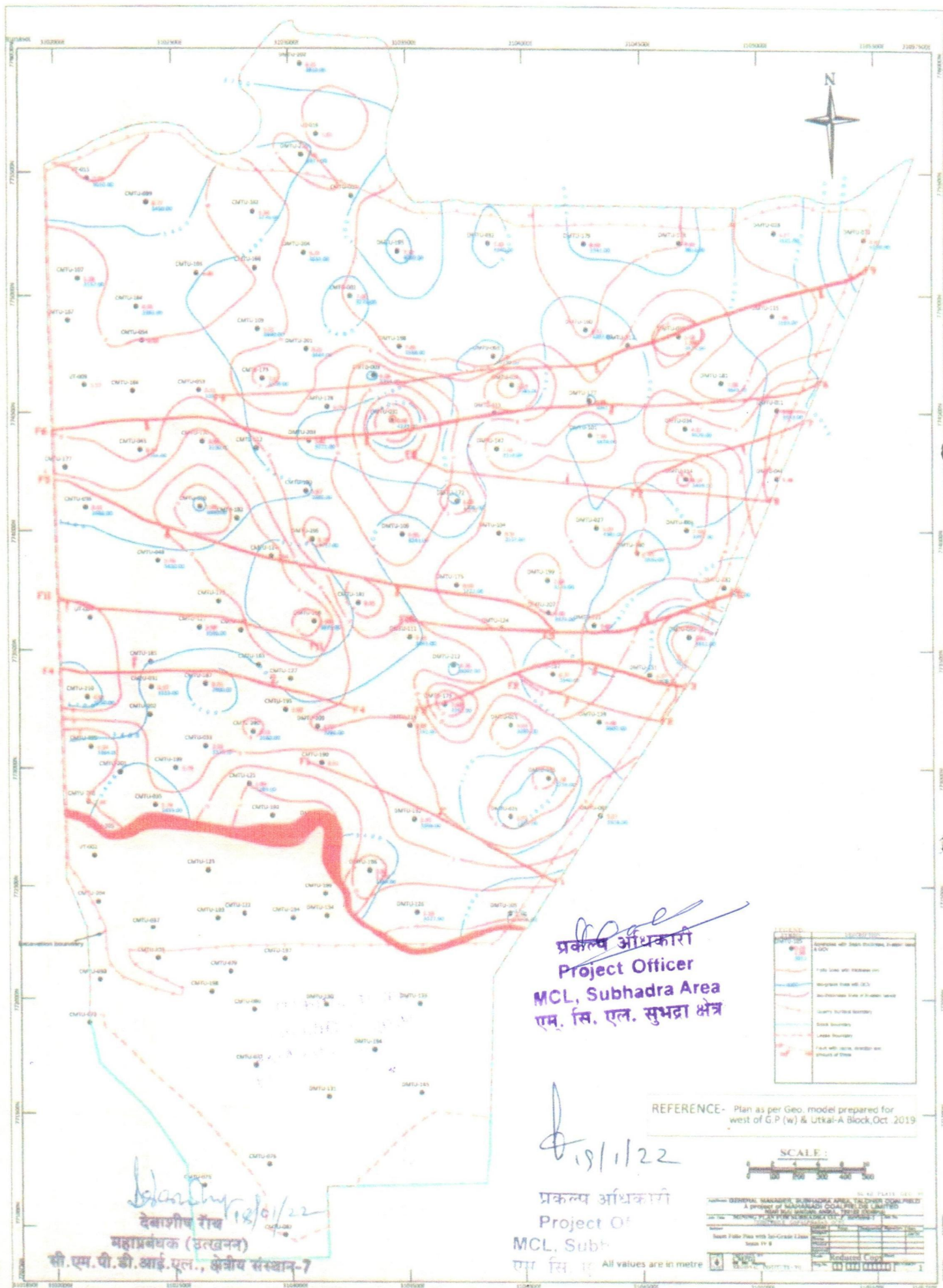
REFERENCE- Plan as per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

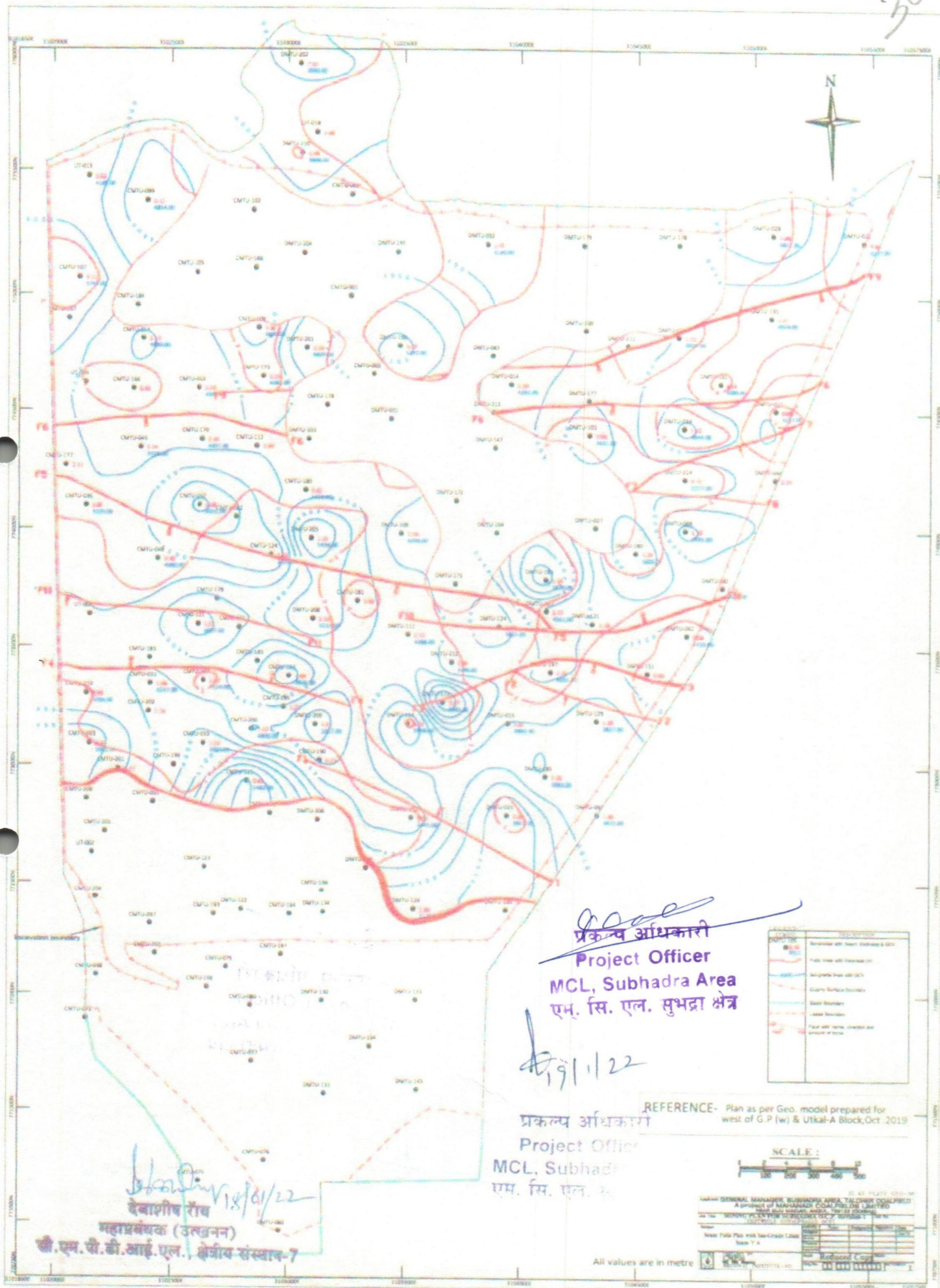


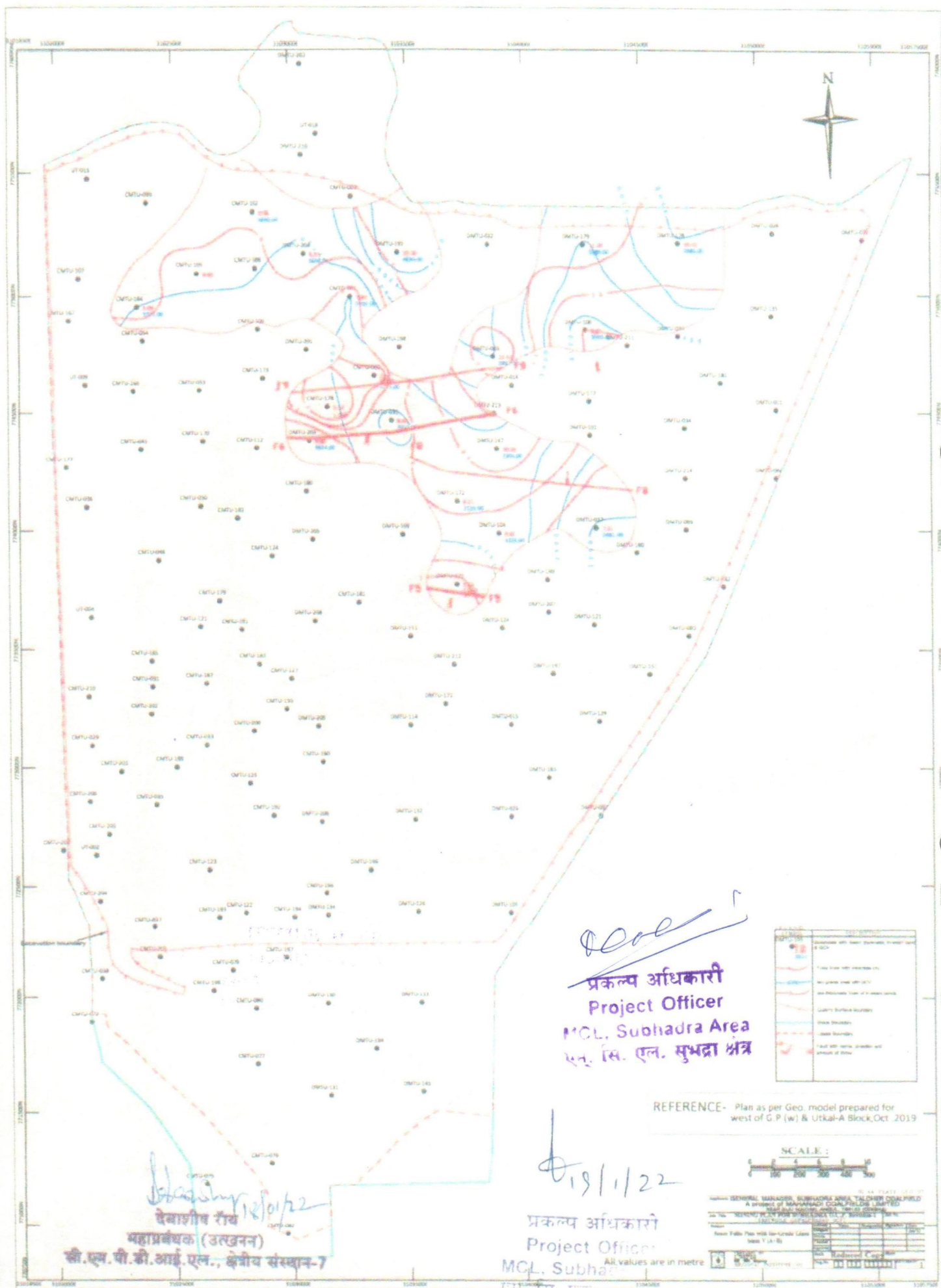
प्रकल्प अधिकारी
Project Officer
MCL, Subh...

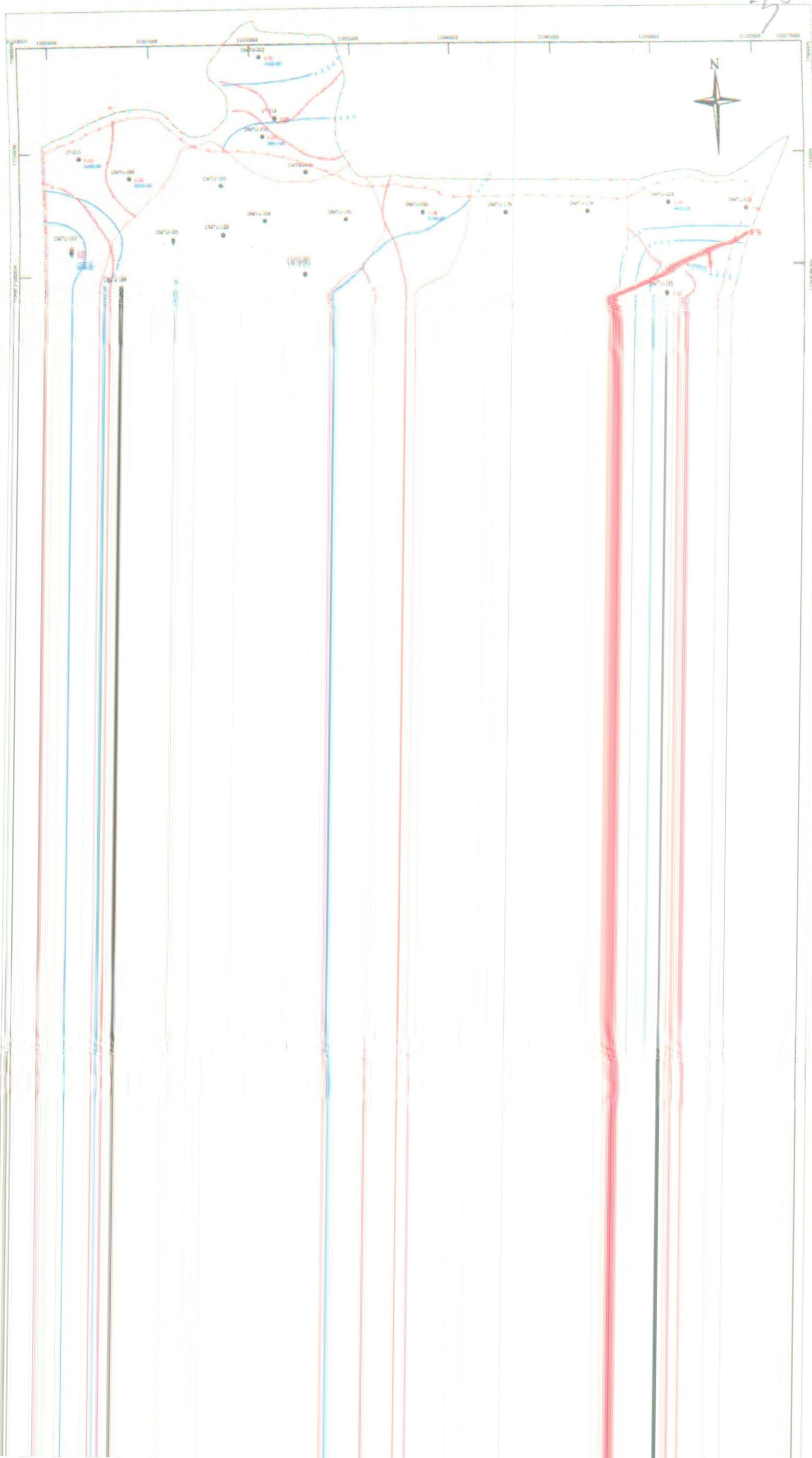
GENERAL INFORMATION		PROJECT INFORMATION	
Project Name	Subhadra Area	Project No.	...
Project Location	...	Project Date	...
Project Status	...	Project Budget	...
Project Manager	...	Project Officer	...

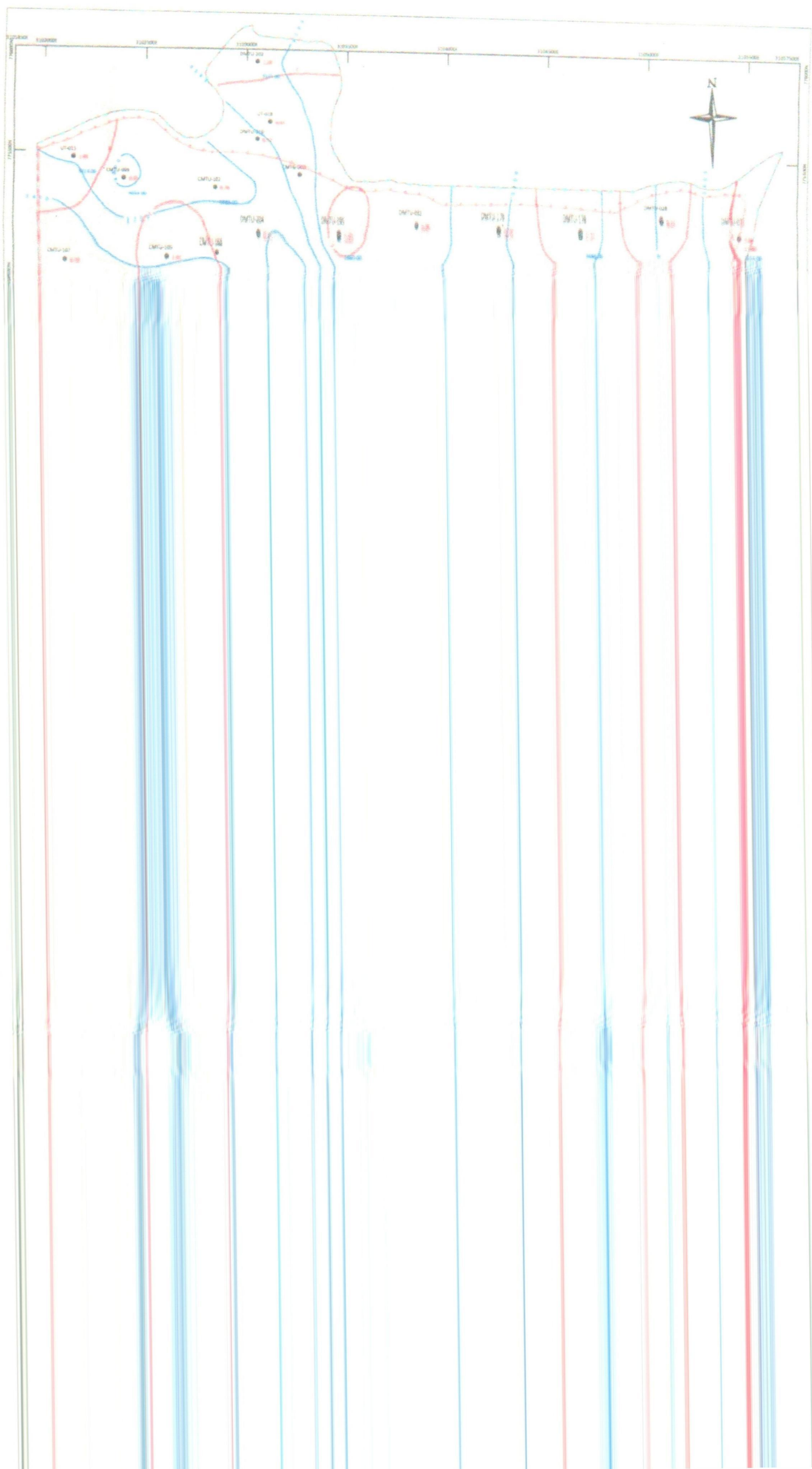




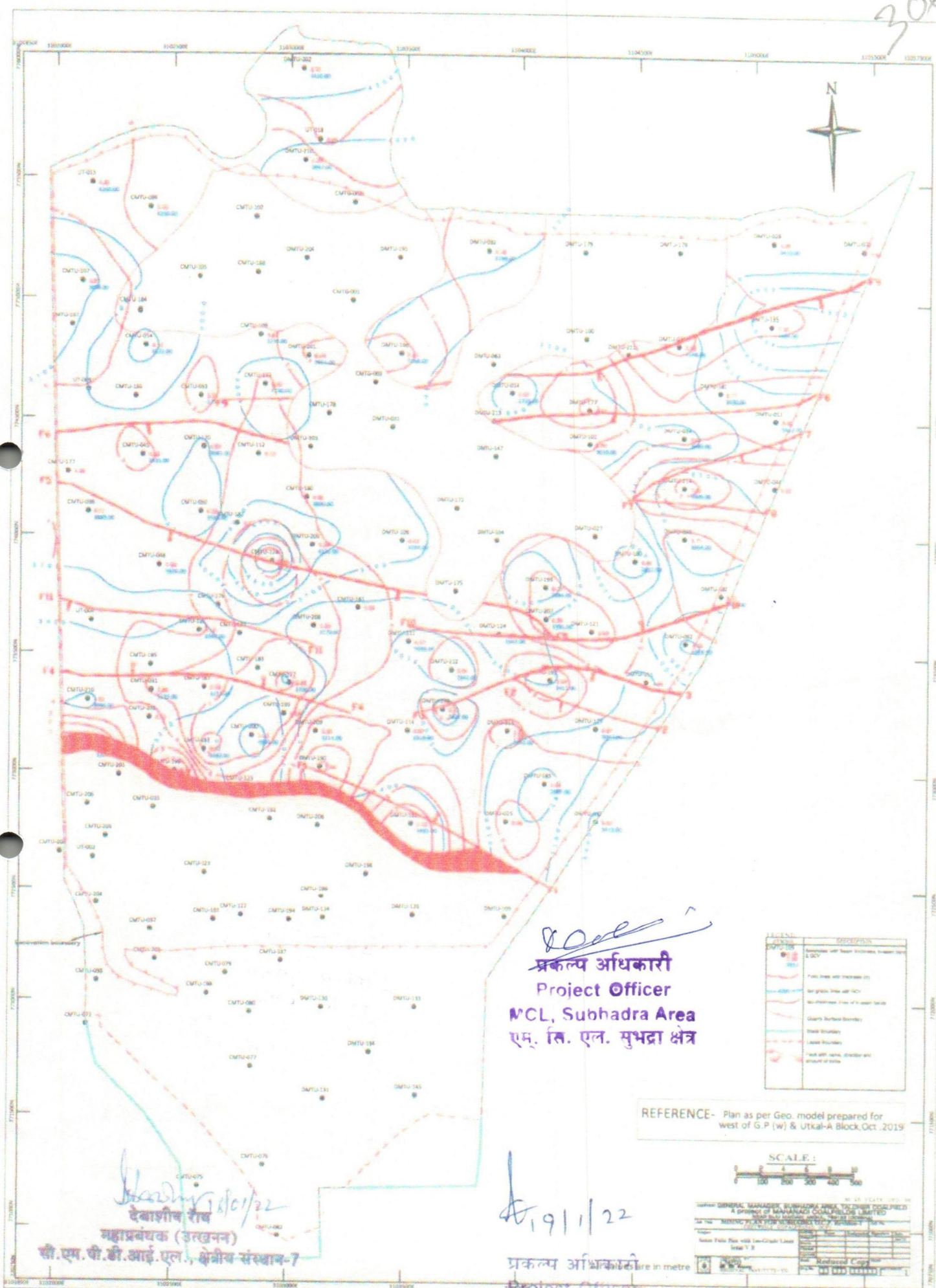








306



[Signature]
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. लि. एल. सुभद्रा क्षेत्र

LEGEND	
	Boundary with depth
	Fault line
	Geological boundary
	Contour line
	Road boundary
	Water body
	Other features

REFERENCE- Plan as per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

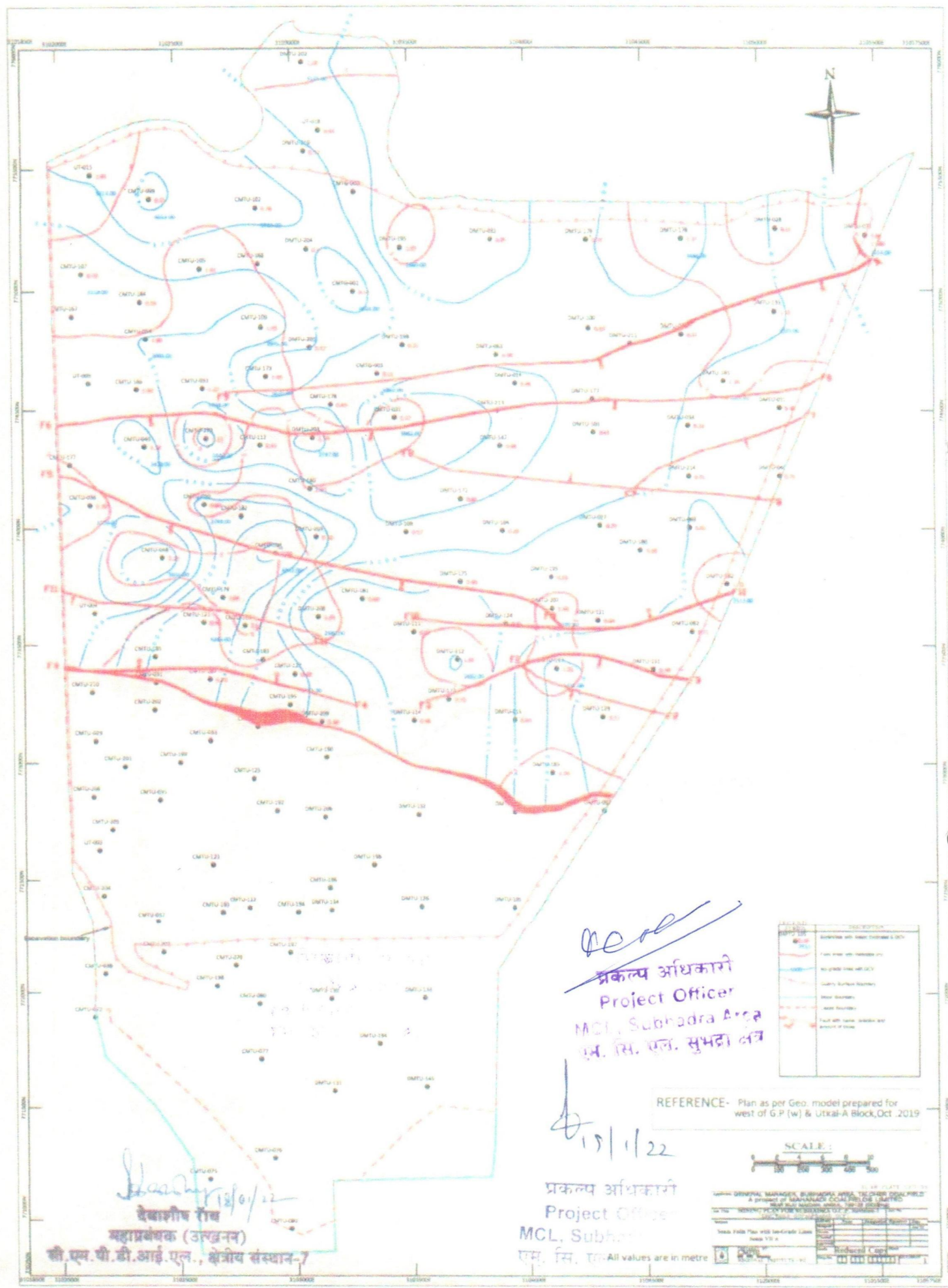


GENERAL INFORMATION	
Project Name	Subhadra Area
Scale	1:50,000
Projection	UTM
Zone	48Q
Datum	WGS 84
Units	Meters
Author	MCL
Year	2019

[Signature]
देवाशीष राय
महाप्रबंधक (उत्खनन)
सी.एम.पी.डी.आई.एल., क्षेत्रीय संस्थान-7

[Signature]
प्रकल्प अधिकारी
Project Officer

MCL, Subhadra
 एम लि. एल.



Handwritten signature
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

REFERENCE- Plan as per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

Handwritten date
 15/11/22

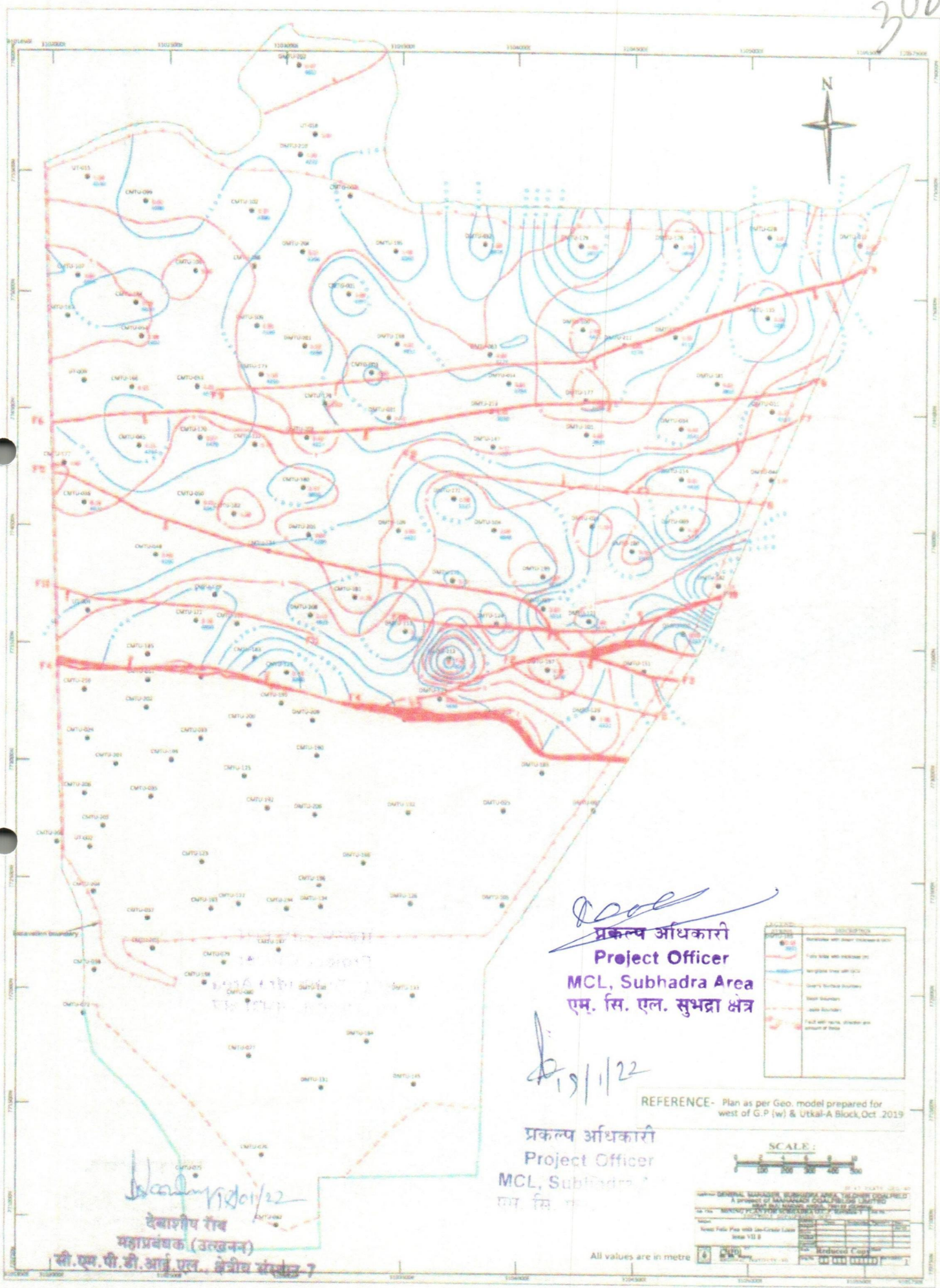
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra
एम. सि. एल.

SYMBOL	DESCRIPTION
	Boundary with known coordinates & data
	Fault line with thickness 100
	Fault line with thickness 200
	Country boundary
	State boundary
	District boundary
	Fault with name, direction and amount of throw



Handwritten signature
 15/11/22
सहायक निदेशक (अभियन्ता)
जी.एम.पी.डी.आई.एल., क्षेत्रीय संस्थान-7

NO.	DESCRIPTION	UNIT	VALUE
1	Geological Survey of India, Bangalore		
2	Geological Survey of India, Dehra Dun		
3	Geological Survey of India, Shimla		
4	Geological Survey of India, Varanasi		
5	Geological Survey of India, Lucknow		
6	Geological Survey of India, Patna		
7	Geological Survey of India, Ranchi		
8	Geological Survey of India, Bhubaneswar		
9	Geological Survey of India, Cuttack		
10	Geological Survey of India, Bhubaneswar		



[Signature]
प्रकल्प अधिकारी
Project Officer

MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

[Signature]
 19/1/22

प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

Symbol	Description
[Red line]	Boundary with other divisions & blocks
[Blue line]	Water body with thickness (m)
[Dashed line]	Proposed line with 100m
[Dotted line]	Survey's Northward direction
[Solid line]	State boundary
[Dashed line]	Local boundary
[Red line]	Field with name, direction and amount of flow

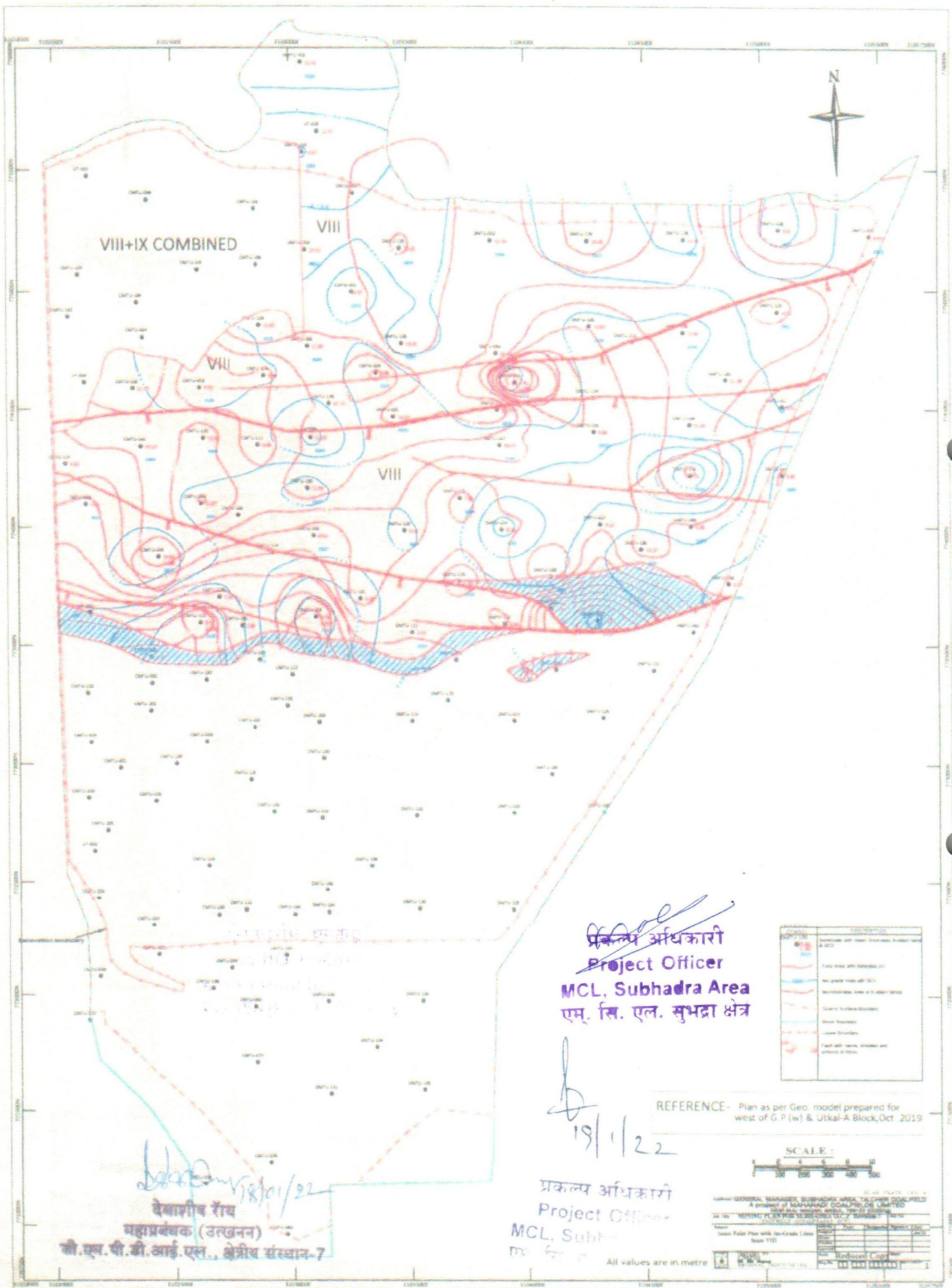
REFERENCE- Plan as per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

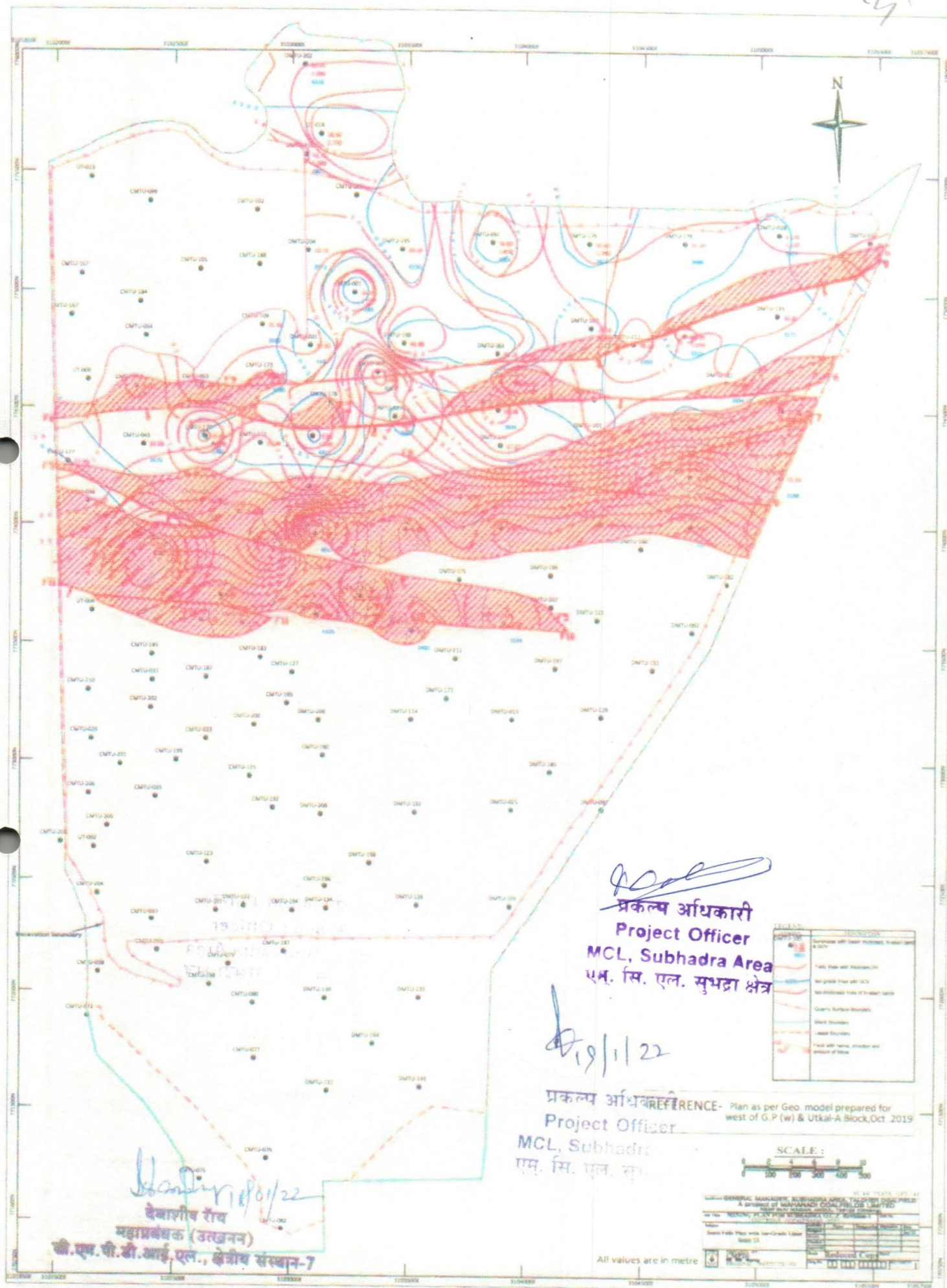


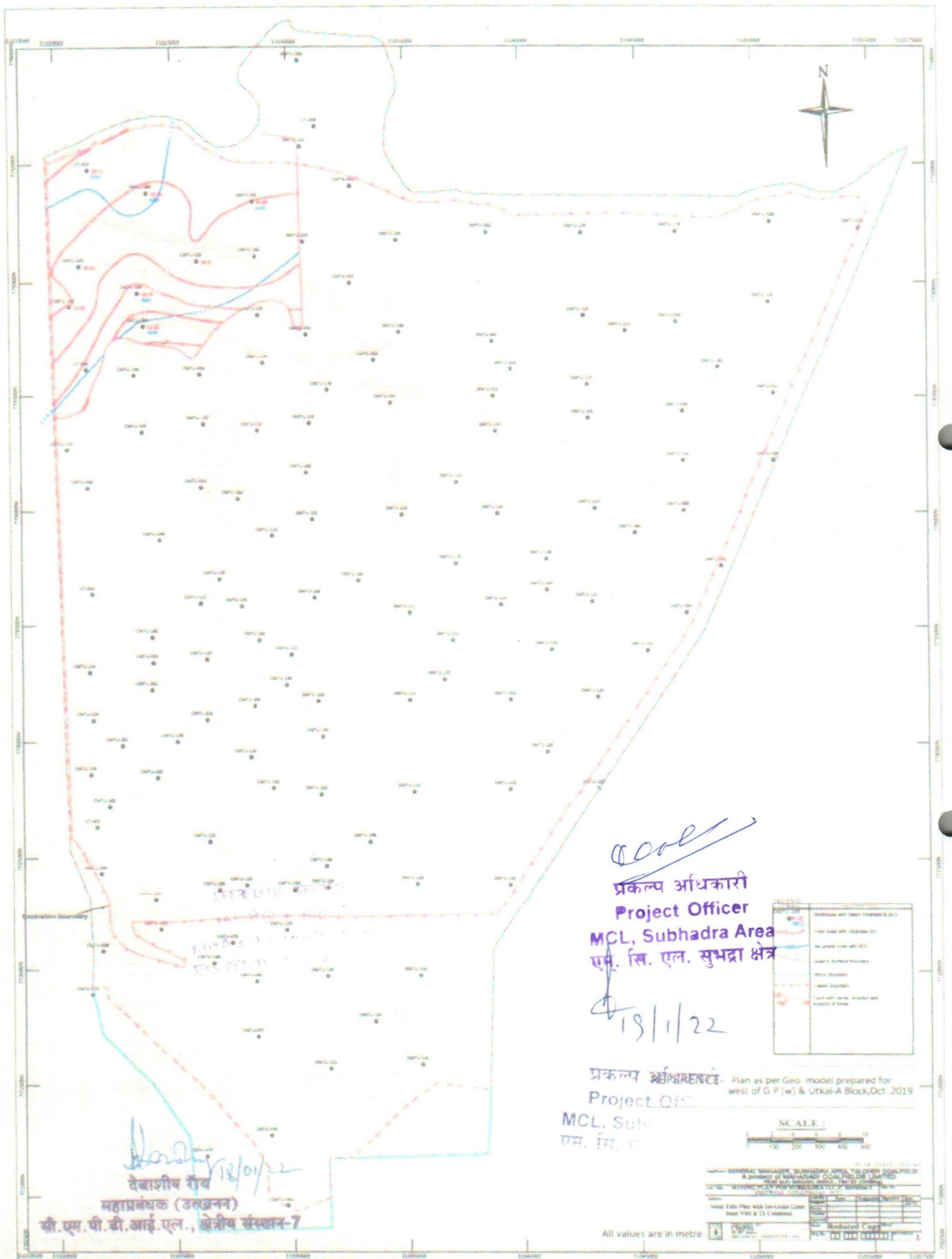
GENERAL INFORMATION		PROJECT INFORMATION	
Project Name	Subhadra Area	Project No.	
Project Location	Subhadra Area	Project Date	
Project Status	Completed	Project Cost	
Project Manager	Project Officer	Project Engineer	
Project Supervisor	Project Officer	Project Assistant	
Project Inspector	Project Officer	Project Clerk	
Project Accountant	Project Officer	Project Storekeeper	
Project Transporter	Project Officer	Project Driver	
Project Fuel	Project Officer	Project Maintenance	
Project Medical	Project Officer	Project Security	
Project Food	Project Officer	Project Communication	
Project Clothing	Project Officer	Project Transportation	
Project Accommodation	Project Officer	Project Maintenance	
Project Entertainment	Project Officer	Project Security	
Project Health	Project Officer	Project Communication	
Project Education	Project Officer	Project Transportation	
Project Recreation	Project Officer	Project Maintenance	
Project Social	Project Officer	Project Security	
Project Cultural	Project Officer	Project Communication	
Project Religious	Project Officer	Project Transportation	
Project Political	Project Officer	Project Maintenance	
Project Economic	Project Officer	Project Security	
Project Environmental	Project Officer	Project Communication	
Project Historical	Project Officer	Project Transportation	
Project Archaeological	Project Officer	Project Maintenance	
Project Anthropological	Project Officer	Project Security	
Project Linguistic	Project Officer	Project Communication	
Project Ethnographic	Project Officer	Project Transportation	
Project Folklore	Project Officer	Project Maintenance	
Project Mythology	Project Officer	Project Security	
Project Religion	Project Officer	Project Communication	
Project Philosophy	Project Officer	Project Transportation	
Project Science	Project Officer	Project Maintenance	
Project Technology	Project Officer	Project Security	
Project Art	Project Officer	Project Communication	
Project Literature	Project Officer	Project Transportation	
Project Music	Project Officer	Project Maintenance	
Project Dance	Project Officer	Project Security	
Project Theatre	Project Officer	Project Communication	
Project Film	Project Officer	Project Transportation	
Project Television	Project Officer	Project Maintenance	
Project Radio	Project Officer	Project Security	
Project Internet	Project Officer	Project Communication	
Project Mobile	Project Officer	Project Transportation	
Project Satellite	Project Officer	Project Maintenance	
Project Space	Project Officer	Project Security	
Project Earth	Project Officer	Project Communication	
Project Sun	Project Officer	Project Transportation	
Project Moon	Project Officer	Project Maintenance	
Project Stars	Project Officer	Project Security	
Project Planets	Project Officer	Project Communication	
Project Comets	Project Officer	Project Transportation	
Project Meteors	Project Officer	Project Maintenance	
Project Asteroids	Project Officer	Project Security	
Project Galaxies	Project Officer	Project Communication	
Project Universe	Project Officer	Project Transportation	

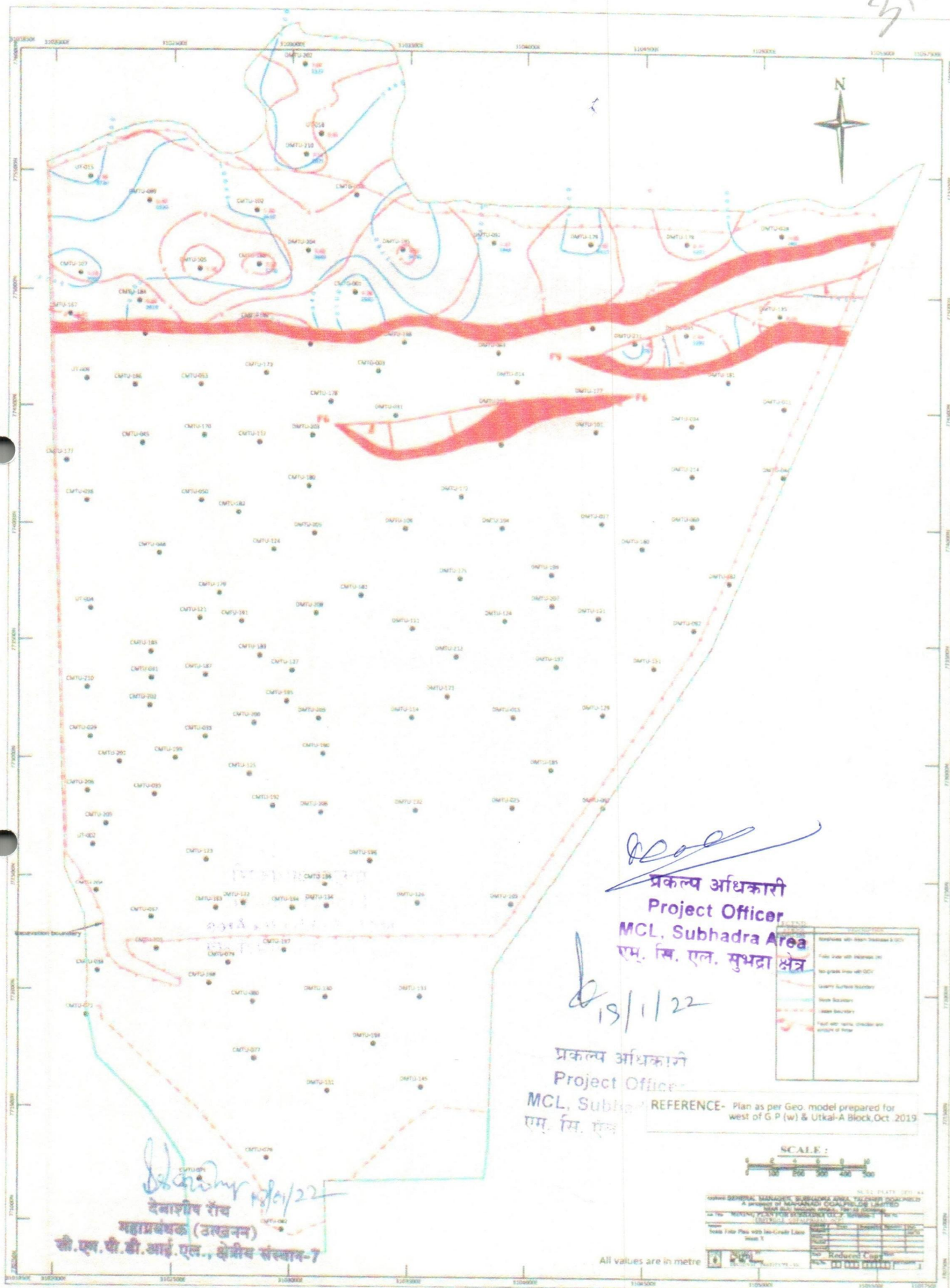
All values are in metre

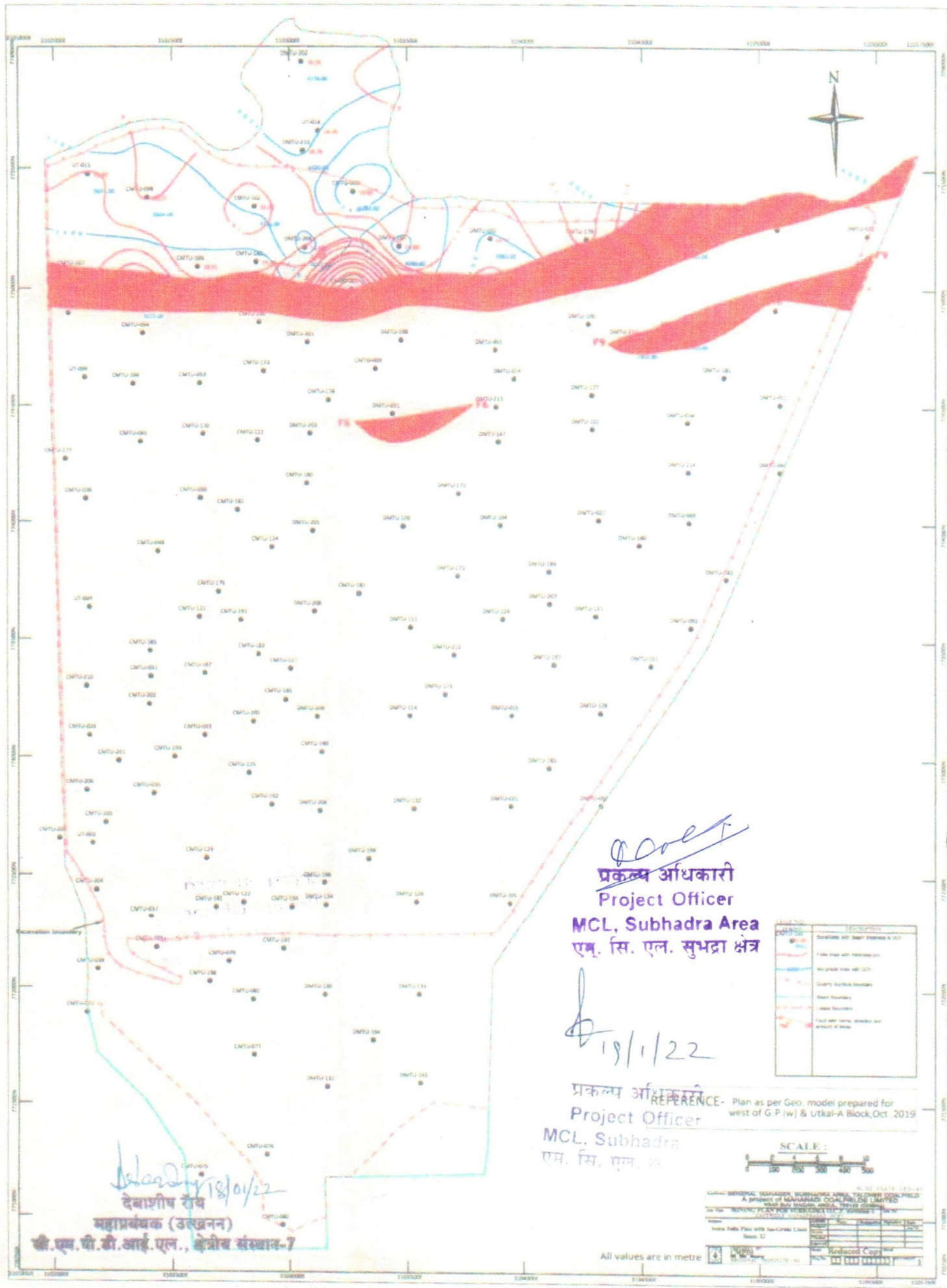
[Signature]
 19/1/22
देवाशय रौद्र
महाप्रबंधक (उत्खनन)
सी.एम.पी.डी.आर. एल. क्षेत्रीय संयंत्र 7











prakash
प्रकल्प अधिकारी

Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

18/1/22

प्रकल्प अधिकारी
Project Officer
MCL, Subhadra
एम. सि. एल. सु.

REFERENCE- Plan as per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

LEGEND	
	Dotted line with open circles (1:1000)
	Solid line with open circles (1:1000)
	Dashed line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)
	Dotted line with open circles (1:1000)



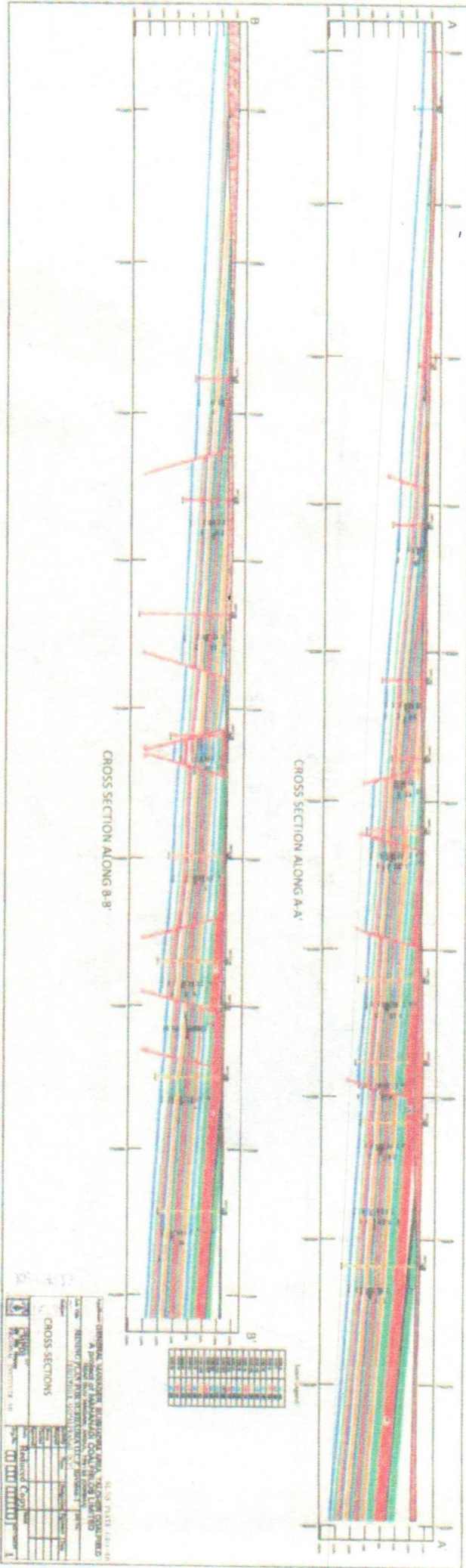
REVISIONS	
No.	Description
1	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
2	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
3	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
4	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
5	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
6	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
7	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
8	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
9	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019
10	As per Geo. model prepared for west of G.P (w) & Utkal-A Block, Oct. 2019

18/01/22
देवाजीय राय

महाप्रबंधक (उत्खनन)
जी.एम.पी.डी.आई.एल., क्षेत्रीय संस्थान-7

All values are in metre

314



8000

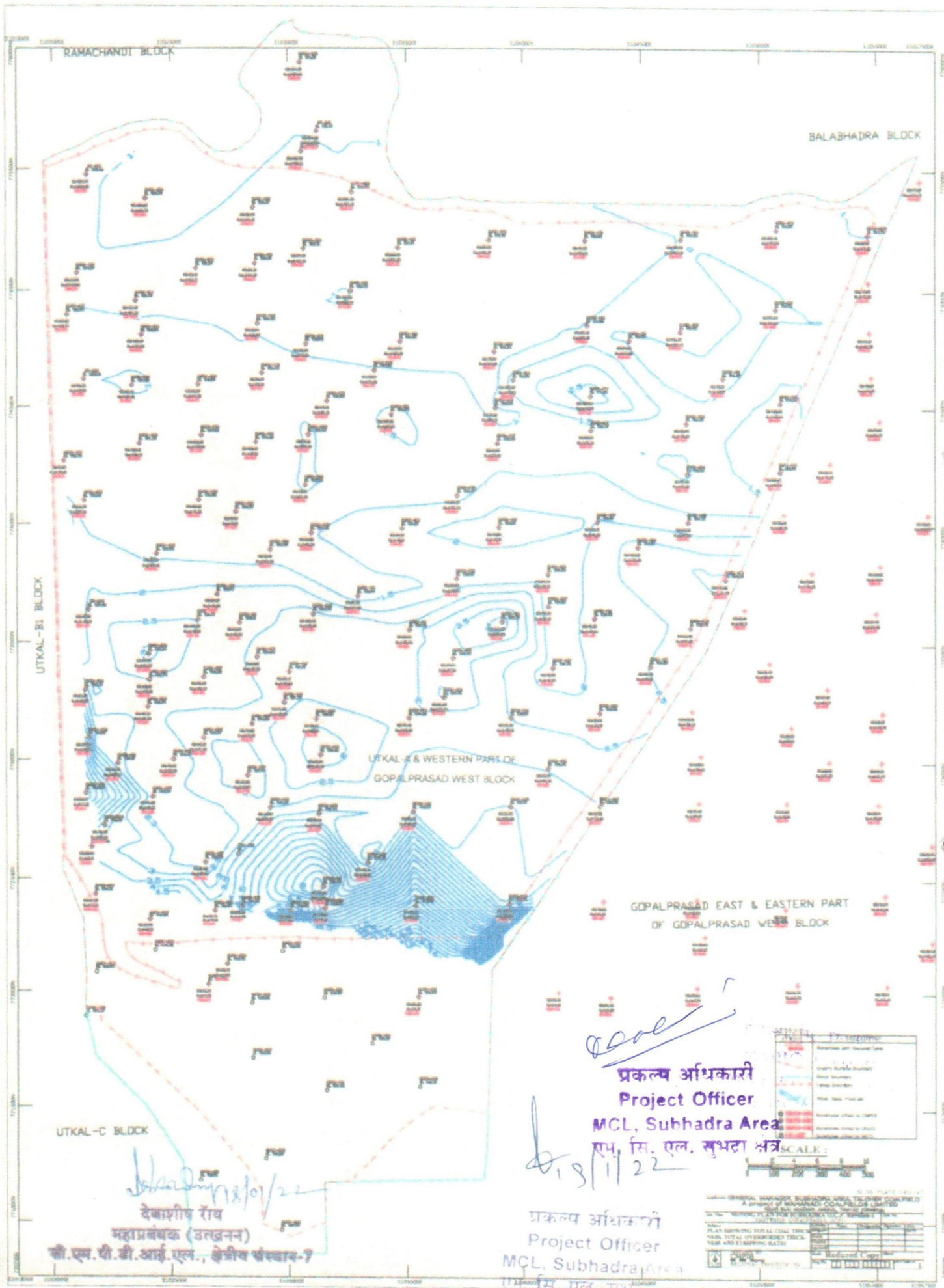
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

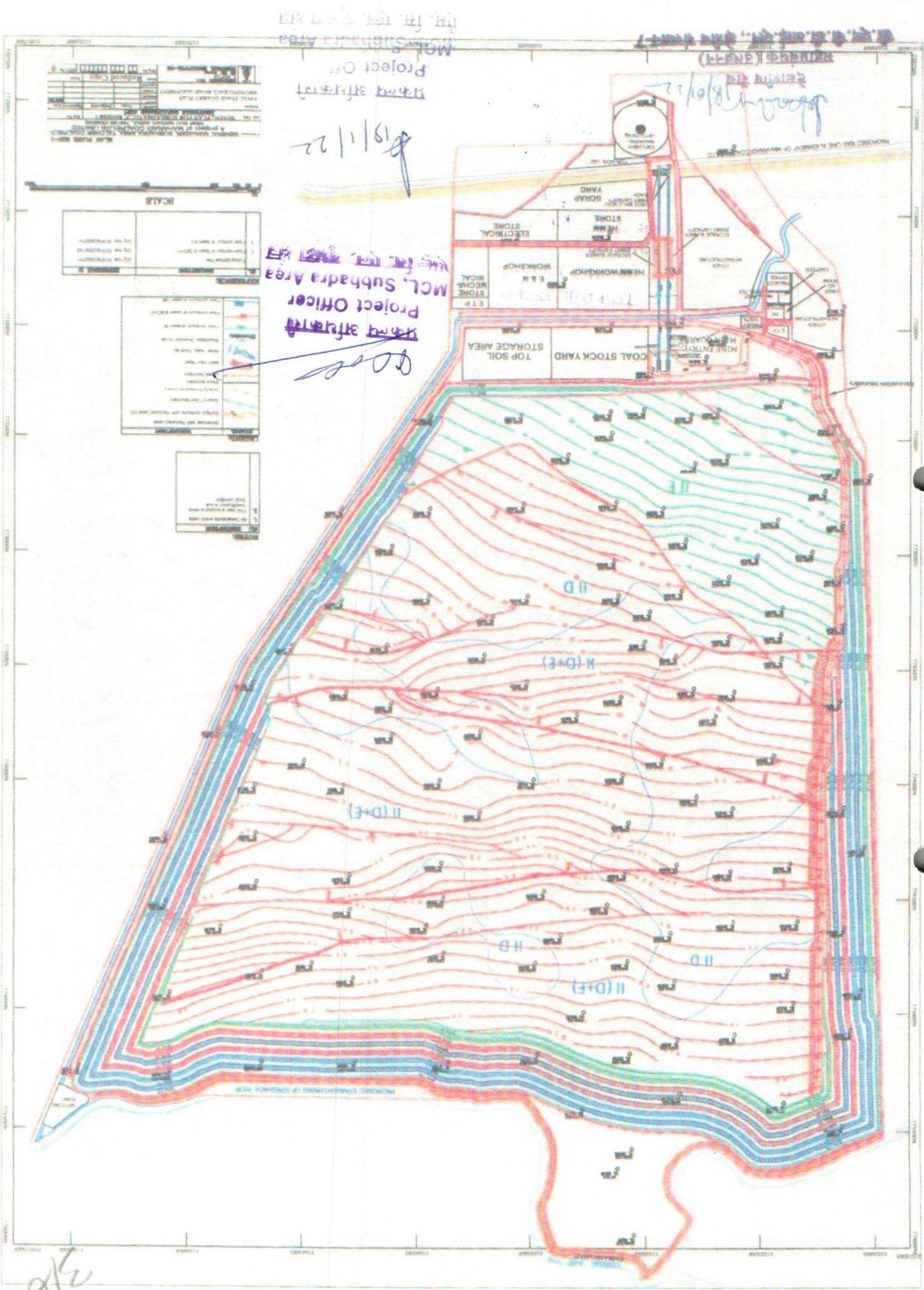
18/01/22
देवाशीव रॉय

महाप्रबंधक (उत्खनन)
सी. एम. पी. डी. आई. एल., क्षेत्रीय संस्थान-7

18/01/22

प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र





MCL Subhadra Area
Project Officer
18/11/22

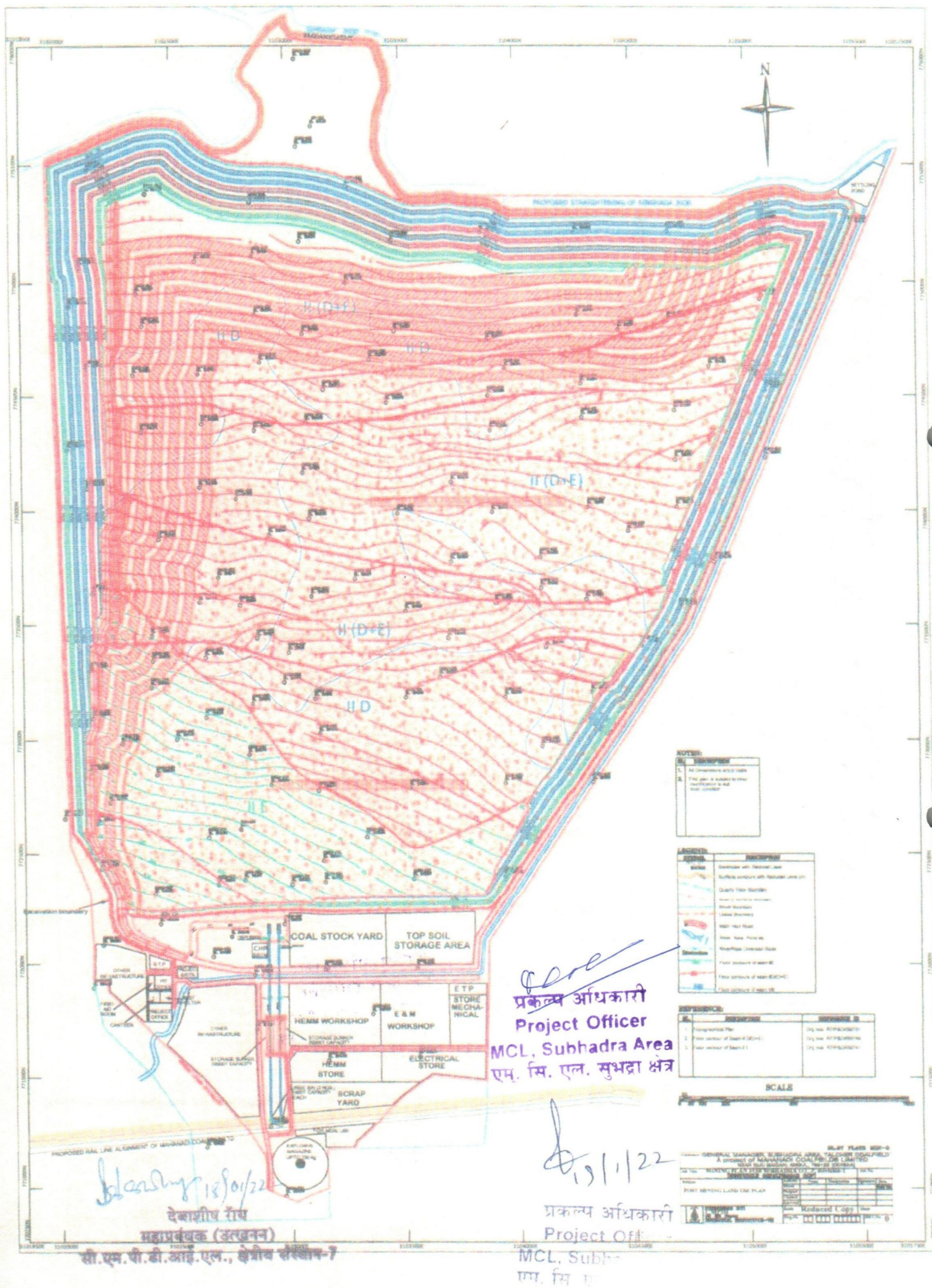
18/11/22
Project Officer

MCL Subhadra Area
Project Officer
18/11/22

SCALE

LEGEND

3/6



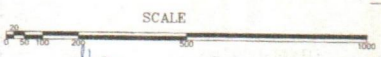
3/8



NOTES:
 1. All Dimensions are in metre
 2. This plan is subject to minor modification to suit local condition

SYMBOL	DESCRIPTION
	Spot Height
	Surface contour with Reduced Level (RL)
	Quarry Floor Boundary
	Quarry Surface Boundary
	Block Boundary
	Lease Boundary
	Main Road
	River, Nala, Pond etc.
	Road/Railway Diversion Road
	Floor contours of seam VI
	Floor contours of seam VII
	Floor contours of seam VIII

SL	DESCRIPTION	REFERENCE ID
1.	Topographical Plan	Slg. No. B7/P40/00273
2.	Floor contour of Seam VII	Slg. No. B7/P40/00274
3.	Floor contour of Seam VIII	Slg. No. B7/P40/00275



[Signature]
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. सि. एल. सुभद्रा क्षेत्र

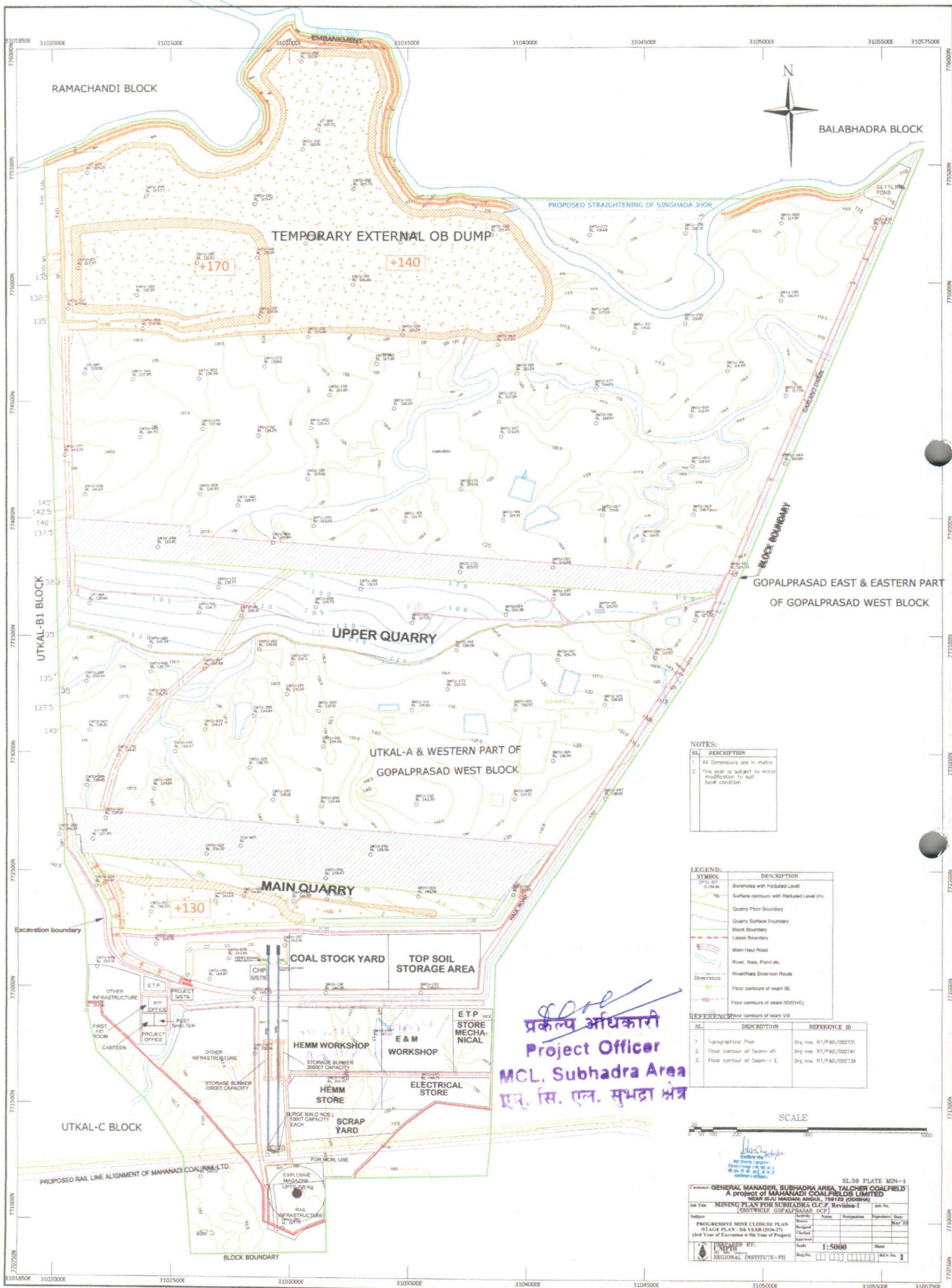
GENERAL MANAGER, SUBHADRA AREA, TALCHER COALFIELD
 A PROJECT OF MAHANADI COALFIELDS LIMITED
 NEAR BLAU MAHARAJA ANSUL, THRIEST (ODISHA)
 MINING PLAN FOR SUBHADRA O.C.P. Revision-2
 (NEARBY GOPALPRASAD O.C.P.)

Author	Drawn	Checked	Approved	Date
				Mar 25

PROGRESSIVE MINE CLOSURE PLAN
 STAGE PLAN - 1st YEAR (2024-25)
 (1st Year of Execution in 1st Year of Project)

PREPARED BY:
 C.M.O.
 REGIONAL INSTITUTE-VII

Scale: 1:5000
 Sheet: 1
 REV. No. 1



NOTES:

1. All Dimensions are in metre
2. This plan is subject to minor modification to suit local condition

LEGEND:

SYMBOL	DESCRIPTION
Boreholes with Reduced Level	
Surface contours with Reduced Level (m)	
Quarry Floor Boundary	
Quarry Surface Boundary	
Block Boundary	
Lease Boundary	
Main Road	
River, Nala, Pond etc.	
River/Lease Diversion Route	
Floor contours of seam SE	
Floor contours of seam HCH+E	
Floor contours of seam VII	

REFERENCE

SL	DESCRIPTION	REFERENCE ID
1.	Topographical Plan	Drig. nos. R7/P80/002731
2.	Floor contour of Seam-VII	Drig. nos. R7/P80/002741
3.	Floor contour of Seam-I E	Drig. nos. R7/P80/002739



Customer: GENERAL MANAGER, SUBHADRA AREA, TALCHER COALFIELD
A project of MAHANADI COALFIELDS LIMITED
SECTOR: SUBHADRA AREA, TALCHER COALFIELD

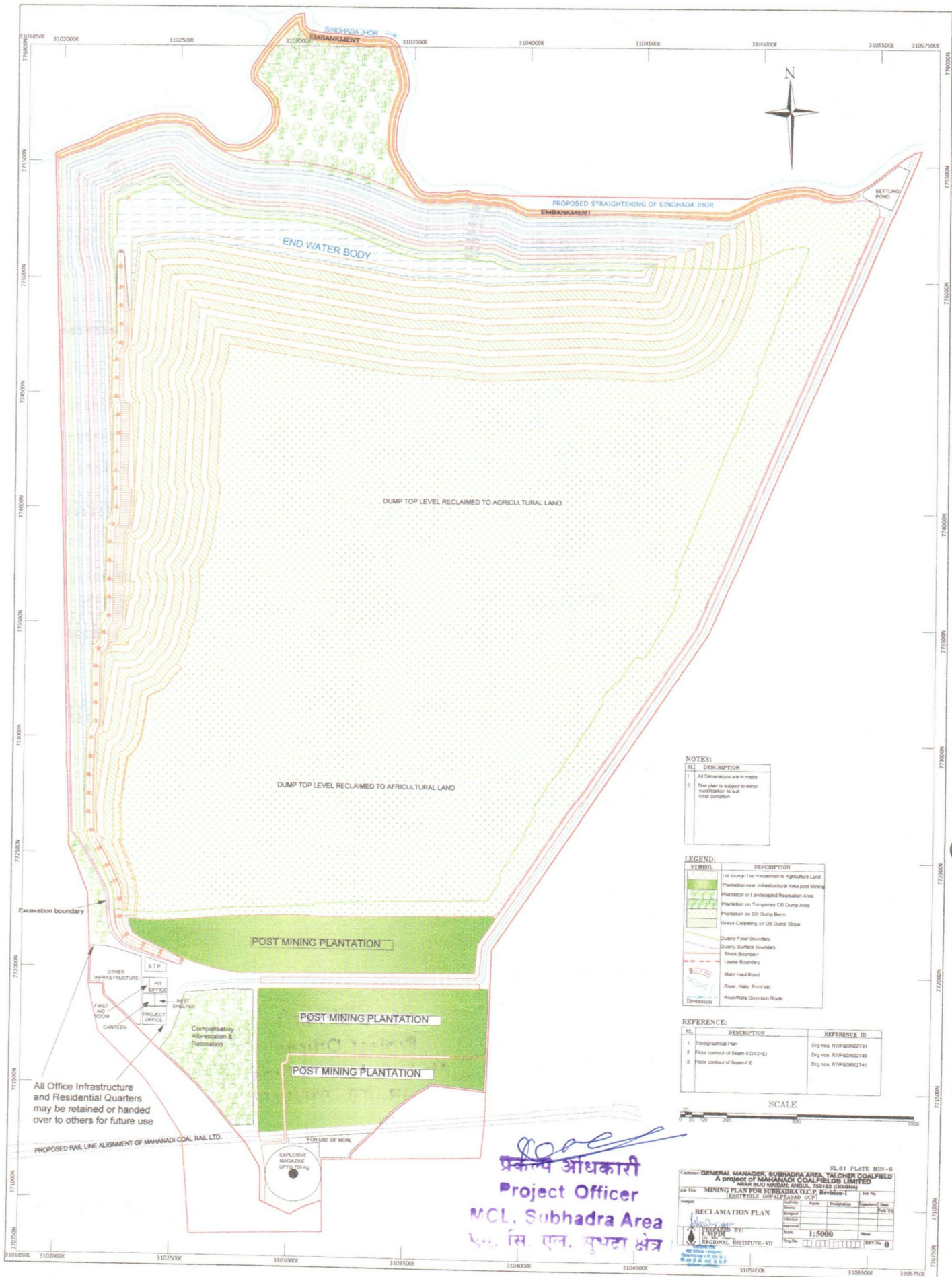
Job Title: MINING PLAN FOR SUBHADRA O.C.P. Revision-1
Subject: PROGRESSIVE MINE CLOSURE PLAN
STAGE PLAN - 5th YEAR (2016-17)
(3rd Year of Excavation in 5th Year of Project)

Prepared By: REGIONAL INSTITUTE-VII
Scale: 1:5000
Sheet: 1

प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एच. सि. एल. सुभद्रा क्षेत्र

226





NOTES:

SL	DESCRIPTION
1.	All dimensions are in meters
2.	This plan is subject to minor modification to suit local condition

LEGEND:

SYMBOL	DESCRIPTION
[Green hatched box]	Old Dump Top Reclaimed to Agriculture Land
[Green box]	Plantation over rehabilitated Area post Mining
[Green box]	Plantation on Landscaped Recreation Area
[Green box]	Plantation on Temporary Old Dump Area
[Green box]	Plantation on Old Dump Berm
[Green box]	Grass Carpeting on Old Dump Slope
[Yellow line]	Quarry Floor Boundary
[Yellow line]	Quarry Surface Boundary
[Red dashed line]	Block Boundary
[Red dashed line]	Lease Boundary
[Blue line]	Main Road
[Blue line]	River, Nala, Pond etc.
[Blue line]	River/Nala Diversion Route

REFERENCE:

SL	DESCRIPTION	REFERENCE ID
1.	Topographical Plan	Orig. nos. R/1/P&D/002731
2.	Floor contour of Seam-II (D1+E)	Orig. nos. R/1/P&D/002749
3.	Floor contour of Seam-II E	Orig. nos. R/1/P&D/002741

SCALE
0 50 100 200 300 400 500

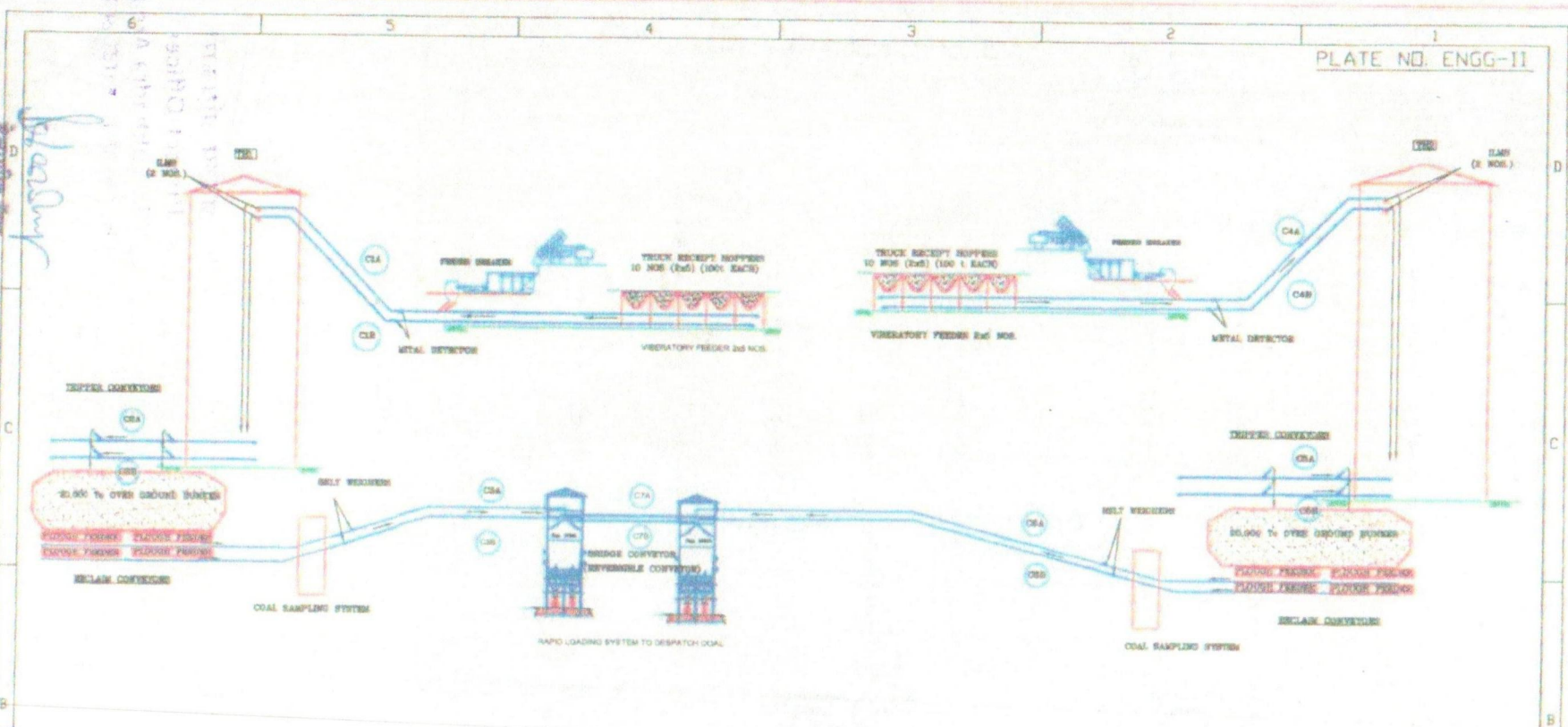
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
प.सि. एन. कुमरा क्षेत्र

GENERAL MANAGER, SUBHADRA AREA, TALCHER COALFIELD
A Project of MAHANADI COALFIELDS LIMITED
Jharkhand, India
Jharkhand, India
Jharkhand, India

RECLAMATION PLAN

Prepared by: [Signature]
Checked by: [Signature]
Approved by: [Signature]
Scale: 1:5000
Sheet: [Blank]
REV: 0

PLATE NO. ENGG-II



LIST OF EQUIPMENT

Sl. No.	PARTICULARS	UNIT	QTY
1	RAPID LOADING SYSTEM-5000-8000 tps LOADING CAPACITY INCLUDING ARC BREAKER PNE-WEIGH HOPPER, TELESCOPE CRUTER, AIR COMPRESSOR, HYDRAULIC SYSTEM, TEST WEIGHT PAPER & FITTING WITH ELECTRIC PRINTED DISPLAY FACILITY ETC.	NO	2
2	AUTOMATIC COAL SAMPLING SYSTEM	NO	2
3	PLAUGH FEEDER, 3000 TPD RATED CAPACITY	NO	2
4	VIBRO FEEDER, 450 TPD CAPACITY	NO	10
5	FEEDER BREAKER, 450 TPD CAPACITY	NO	2
6	MOTORIZED ROVER, CAPACITY AND LIFT AS PER SYSTEM REQUIREMENT	NO	12

Sl. No.	PARTICULARS	UNIT	QTY
1	24-LINE ELECTRIC SEPARATOR FOR 1800MM BELT	NO	4
2	MOTORIZED FLAP GATE	LS	AS REQ.
3	CHUTE ASSEMBLY WITH LINER	NO	AS REQ.
4	DART SUPPRESSION SYSTEM WITH PNEUMATIC & OTHER ACCESSORIES	NO	AS REQ.
5	PNEUMATIC SYSTEM AND PLANT CLEANING SYSTEM	NO	AS REQ.
6	MISC EQUIPMENT FOR ANY MORE LEFT OUT ITEM REQUIRED TO COMPLETE	NO	AS REQ.

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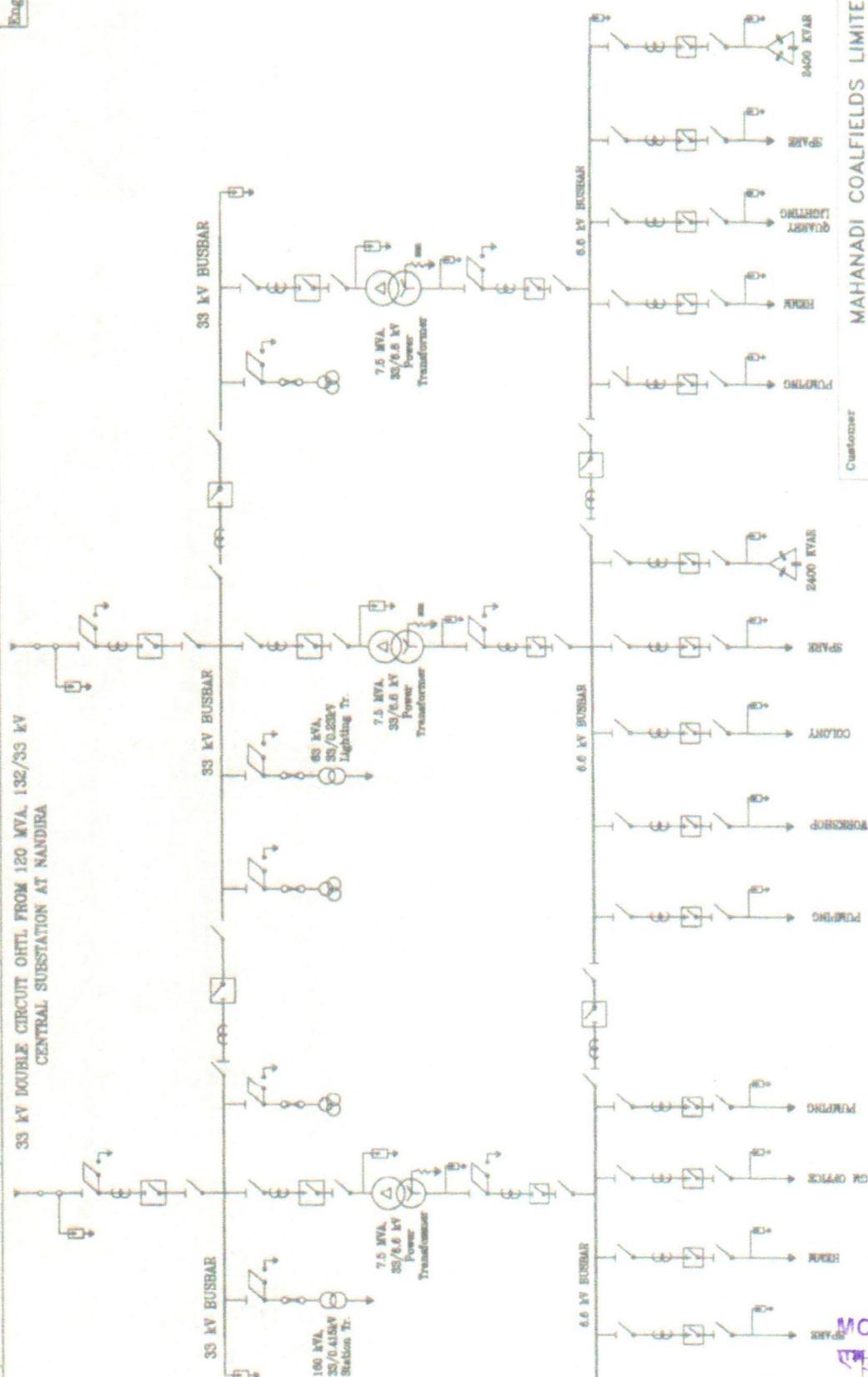
Customer		MAHANADI COALFIELDS LIMITED			
Job Title		PROJECT REPORT FOR SUBHADRA OCP (25 MTP)		Job No. 702244	
Subject		COAL FLOW DIAGRAM			
Activity	Name	Designation	Signature	Date	
Drawn	J. K. DIXIT	Mgr. (E&M)		April '21	
Designed	J. K. DIXIT	Mgr. (E&M)		April '21	
Checked	S. K. MATHY	G. M. (E&M)		April '21	
Approved	S. K. MATHY	H. O. D. (E&M)		April '21	
Scale	NTH			Sheet 1 of 1	
Drw. No.	R7	E&M	301255	REV. No. 3	



CMPDI
ISO 9001 Company

प्र. एम. सी. डी. अर्वा. एल., क्षेत्रीय कार्यालय-7
प्र. एम. सी. डी. अर्वा. एल., क्षेत्रीय कार्यालय-7
प्र. एम. सी. डी. अर्वा. एल., क्षेत्रीय कार्यालय-7
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Handwritten signature/initials



18/01/22

देवाशीष रॉय
महाप्रबंधक (उत्खनन)

सी.एन.पी.डी.आई.एन., क्षेत्रीय संस्करण-7

19/1/22

प्रकल्प अधिकारी
Project Officer

MCL, Subhad
एन. सि. पब्ल. म

MAHANADI COALFIELDS LIMITED

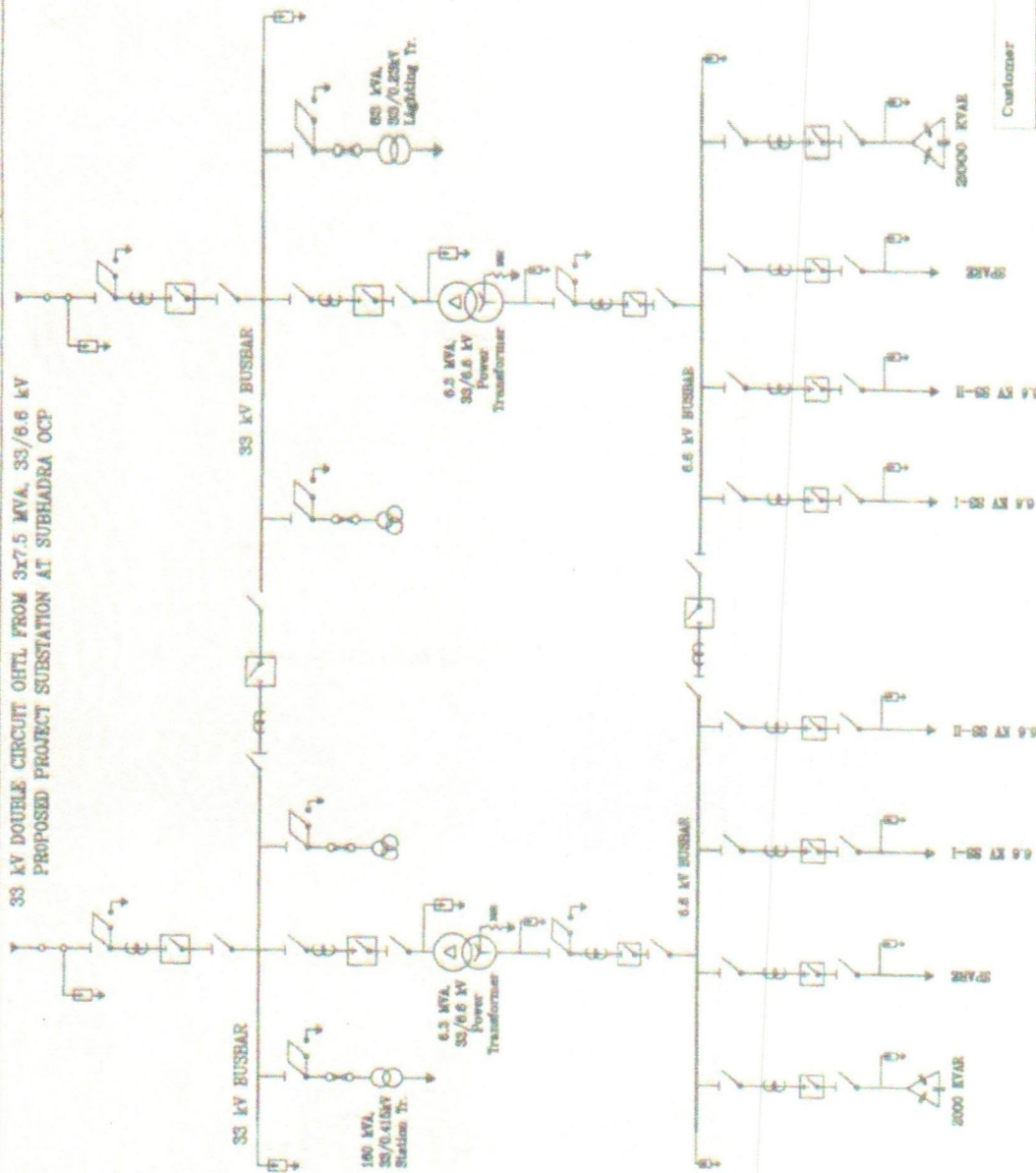
Job Title	MDO VARIANT FOR PR OF SUBHADRA OCP (25 Mty)				Job No.	702244
Subject	SINGLE LINE DIAGRAM OF 33/0.6 KV PROJECT SUBSTATION				Region Code	0000000000
	Activity	Resource	Development Unit		Sheet	1
	Drawn	P. K. Bandy	Pr. M. (Draw)			
	Designed	L. L. Bandy	Mgr. (Draw)			
	Checked	L. L. Bandy	Sup. (Draw)			
	Approved	S. K. Bandy	S. K. (Draw)			
	Sketch					
			M.T.F.			
	Drawn	04/7	04/11/20	04/11/20	04/11/20	0
	CMPDI ISO 9001 Company					

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Core
प्रकल्प अधिकारी
Project Officer
MCL, Subhadra Area
एम. लि. एन. सुभद्रा क्षेत्र

Q. NO.	DESCRIPTION
1.	LIGHTNING ARRESTOR
2.	ISOLATOR
3.	ISOLATOR WITH EARTHING
4.	POTENTIAL TRANSFORMER
5.	CURRENT TRANSFORMER
6.	POWER TRANSFORMER
7.	VACUUM CIRCUIT BREAKER
8.	DO FUSE

33 kV DOUBLE CIRCUIT OHTL FROM 3x7.5 MVA, 33/6.6 kV
PROPOSED PROJECT SUBSTATION AT SUBHADRA OCP



LEGEND

No.	Description
1.	33/6.6 kV LIGHTNING ARRESTOR
2.	33 & 6.6 kV ISOLATOR
3.	33 & 6.6 kV CIRCULAR WITH ES
4.	POTENTIAL TRANSFORMER
5.	CURRENT TRANSFORMER
6.	POWER TRANSFORMER
7.	VACUUM CIRCUIT BREAKER
8.	DC FUSE
9.	33 kV DC OVERHEAD LINE

Customer: MAHANADI COALFIELDS LIMITED

Job Title: MCO VARIANT FOR PR OF SUBHADRA OCP (25 MTP)

Job No. 702244

Subject: SINGLE LINE DIAGRAM OF
33/6.6 kV CHP SUBSTATION

Availability	Revision	Description	Date
Drawn	1.0	1.0	10/01/2022
Designed	1.1	1.1	10/01/2022
Checked	1.1	1.1	10/01/2022
Approved	1.1	1.1	10/01/2022

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