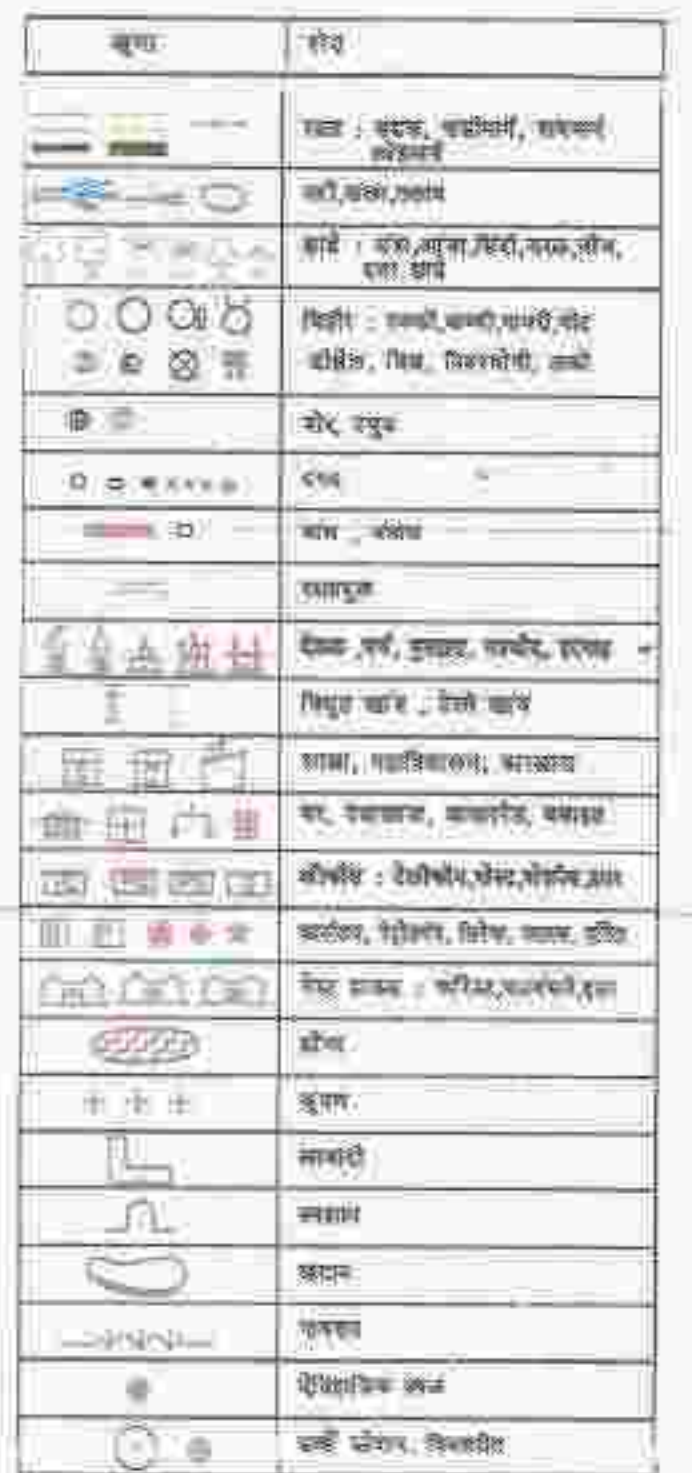


# PLATES



|                                          |
|------------------------------------------|
| M/s SHANTI G.D. ISPAT & POWER PVT. LTD.  |
| KHASARA PLAN                             |
| MINING PLAN                              |
| GUGULDOH MANGANESE ORE BLOCK             |
| VILLAGE -GUGULDOH AREA - 105.00 Ha.      |
| TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.) |
| SCALE 1:5,000                            |

अनुमोदित  
APPROVED

PLATE- 2

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21°29'

21°28'

21°27'

21°26'

21°25'

21°24'

21°23'

21°22'

79°29'

79°28'

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75°8'

75°7'

75°6'

75°5'

75°4'

75°3'

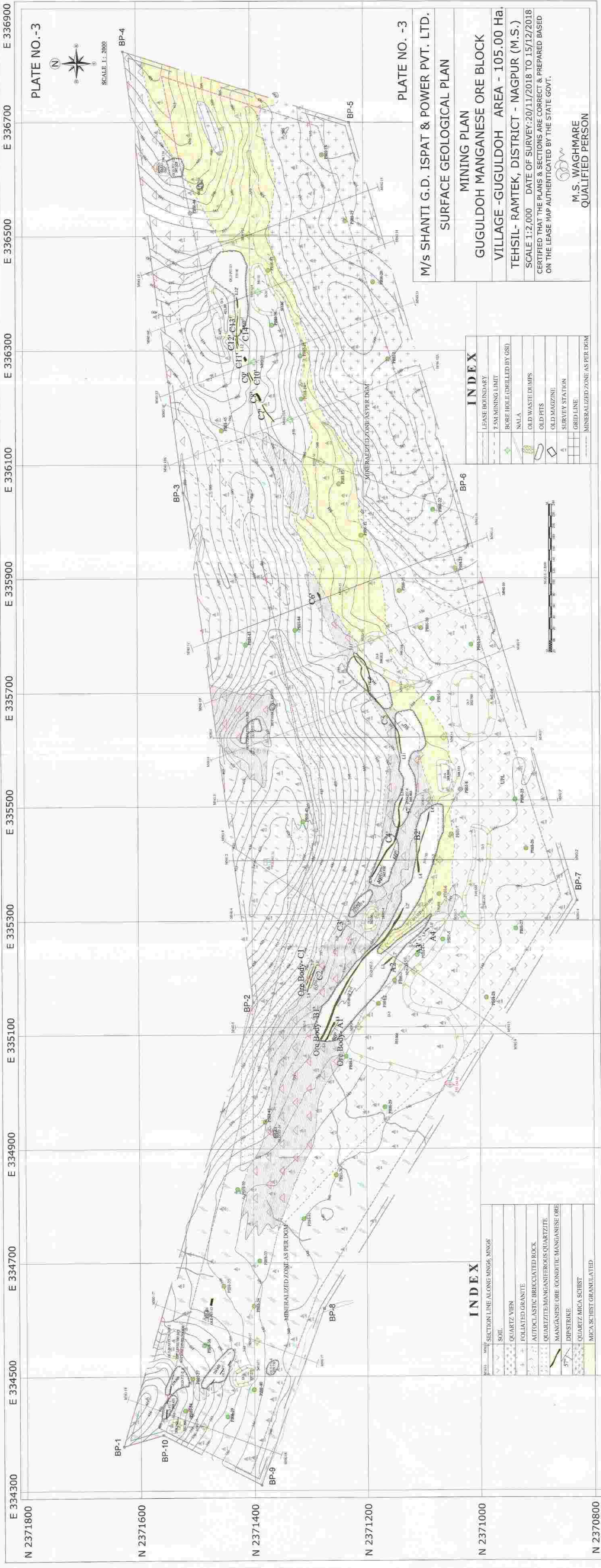
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75°0'

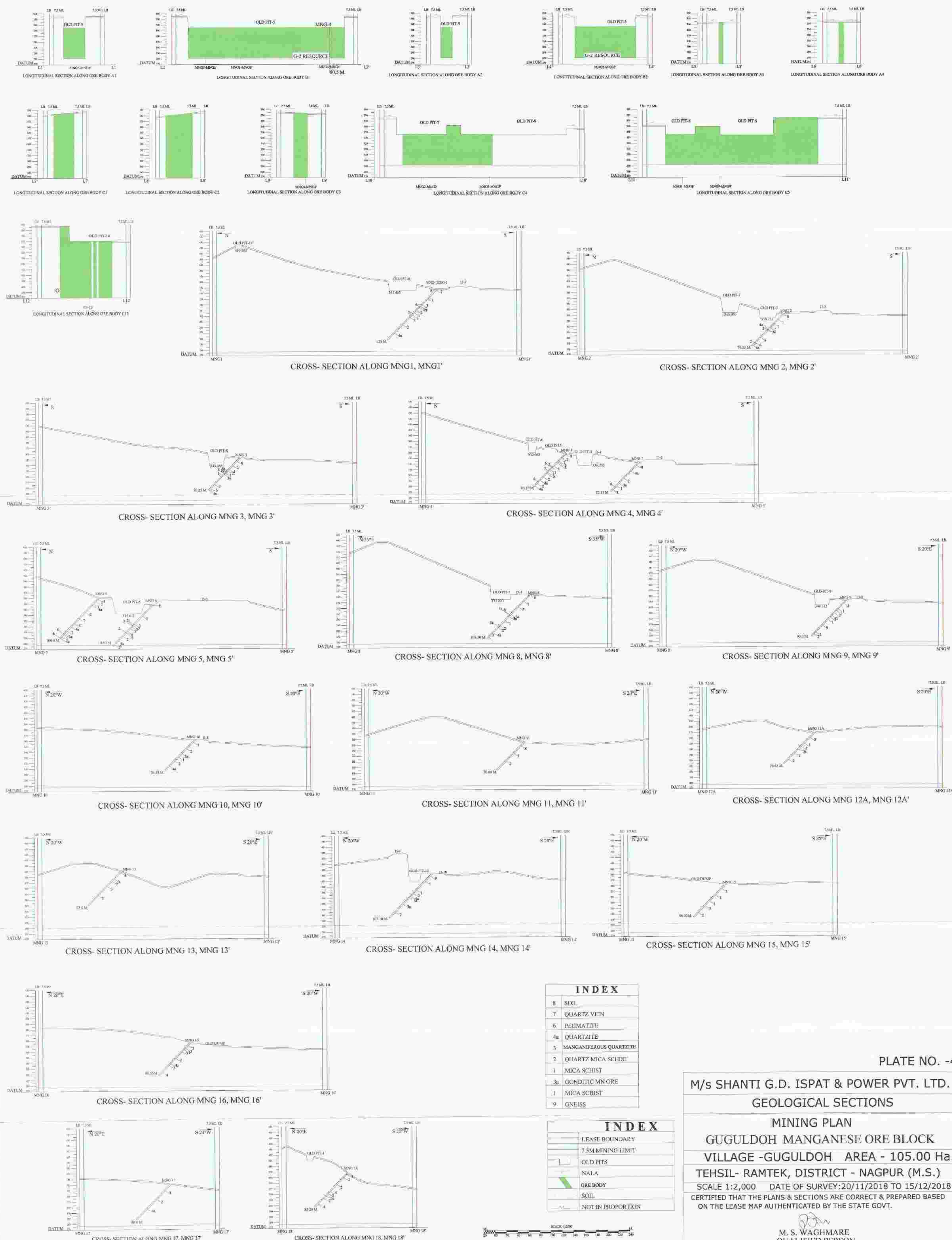
74°59'

74°



| INDEX                      |                             |
|----------------------------|-----------------------------|
| LEASE BOUNDARY             | 7.5M MINING LIMIT           |
| BORE HOLE (DRILLED BY GSI) | NALA                        |
| OLD WASTE DUMPS            | OLD PITS                    |
| OLD MAGAZINE               | SURVEY STATION              |
| GRID LINE                  | MINERALIZED ZONE AS PER DGM |

| INDEX                                  |                                   |
|----------------------------------------|-----------------------------------|
| SECTION LINE ALONG MNG6, MNG6          | SOIL                              |
| QUARTZ VERN                            | FOLIATED GRANITE                  |
| AUTOCLASTIC BRECCIATED ROCK            | QUARTZITE/MANGANIFEROUS QUARTZITE |
| MANGANESE ORE (CONDITIC MANGANESE ORE) | DIP/STRIKE                        |
| QUARTZ MICA SCHIST                     | MICA SCHIST GRANULATED            |



E 334300 E 334500 E 334700 E 334900 E 335100 E 335300 E 335500 E 335700 E 335900 E 336100 E 336300 E 336500 E 336700 E 336900

N 2371800

N 2371600

N 2371400

N 2371200

N 2371000

N 2370800

PLATE NO.-5



SCALE 1: 2000

BP-4

BP-1

BP-10

BP-9

BP-2

BP-3

BP-8

BP-5

BP-6

BP-7

PLATE NO. -5

M/s SHANTI G.D. ISPAT & POWER PVT. LTD.

SURFACE PLAN

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

VILLAGE -GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M.S. WAGHMARE

QUALIFIED PERSON

INDEX

|       |                            |
|-------|----------------------------|
| — — — | LEASE BOUNDARY             |
| - - - | 7.5M MINING LIMIT          |
| ◆     | BORE HOLE (DRILLED BY GSI) |
| —     | NALA                       |
| —     | OLD WASTE DUMPS            |
| —     | OLD PITS                   |
| —     | OLD MAGAZINE               |
| —     | SURVEY STATION             |
| —     | GRID LINE                  |



E 334300

E 334500

E 334700

E 334900

E 335100

E 335300

E 335500

E 335700

E 335900

E 336100

E 336300

E 336500

E 336700

E 336900

N 2371800

N 2371600

N 2371400

N 2371200

N 2371000

N 2370800

PLATE NO. -6.1



SCALE 1: 2000



| INDEX                       |  |
|-----------------------------|--|
| LEASE BOUNDARY              |  |
| 7.5M MINING LIMIT           |  |
| BORE HOLE (DRILLED BY GSI)  |  |
| NALA                        |  |
| OLD WASTE DUMPS             |  |
| OLD PITS                    |  |
| OLD MAGAZINE                |  |
| SURVEY STATION              |  |
| GRID LINE                   |  |
| MINERALIZED ZONE AS PER DGM |  |

PLATE NO. -6.1

M/s SHANTI G.D. ISPAT & POWER PVT. LTD.  
DEVELOPMENT & PRODUCTION PLAN I YEAR

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

VILLAGE -GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED  
ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

E 334300 E 334500 E 334700 E 334900 E 335100 E 335300 E 335500 E 335700 E 335900 E 336100 E 336300 E 336500 E 336700 E 336900

N 2371800

N 2371600

N 2371400

N 2371200

N 2371000

N 2370800

PLATE NO.-6.2



SCALE 1:2000



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N 2371800 N 2371600 N 2371400 N 2371200 N 2371000 N 2370800

PLATE NO.-6.3



| INDEX |                             |
|-------|-----------------------------|
|       | LEASE BOUNDARY              |
|       | 7.5M MINING LIMIT           |
|       | BORE HOLE (DRILLED BY GSI)  |
|       | NALA                        |
|       | OLD WASTE DUMPS             |
|       | OLD PITS                    |
|       | OLD MAGAZINE                |
|       | SURVEY STATION              |
|       | GRID LINE                   |
|       | MINERALIZED ZONE AS PER DGM |

PLATE NO. -6.3

M/s SHANTI G.D. ISPAT & POWER PVT. LTD.

DEVELOPMENT & PRODUCTION PLAN III YEAR

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

VILLAGE -GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

E 334300 E 334500 E 334700 E 334900 E 335100 E 335300 E 335500 E 335700 E 335900 E 336100 E 336300 E 336500 E 336700 E 336900

PLATE NO.-6.4



PLATE NO. -6.4

M/s SHANTI G.D. ISPAT & POWER PVT. LTD.

DEVELOPMENT & PRODUCTION PLAN IV YEAR

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

VILLAGE -GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

| INDEX                       |       |
|-----------------------------|-------|
| LEASE BOUNDARY              | ---   |
| 7.5M MINING LIMIT           | - - - |
| BORE HOLE (DRILLED BY GSI)  | ○     |
| NALA                        | ~     |
| OLD WASTE DUMPS             | ■     |
| OLD PITS                    | □     |
| OLD MAGZINE                 | ◇     |
| SURVEY STATION              | +     |
| GRID LINE                   |       |
| MINERALIZED ZONE AS PER DGM | ■     |



BP-1 BP-10 BP-9 BP-8 BP-7 BP-6 BP-5 BP-4 BP-3 BP-2

RETAINING WALL

PROPOSED OFFICE  
PROPOSED REST SHELTER  
PROPOSED WORKSHOP

PROPOSED ROAD

SETTLING TANK  
10X10X5 M.

CHECK DAM  
2.0X2.0 X5 M (L)

PROPOSED REJECT STACK

MINERALIZED ZONE AS PER DGM

MINERALIZED ZONE AS PER DGM

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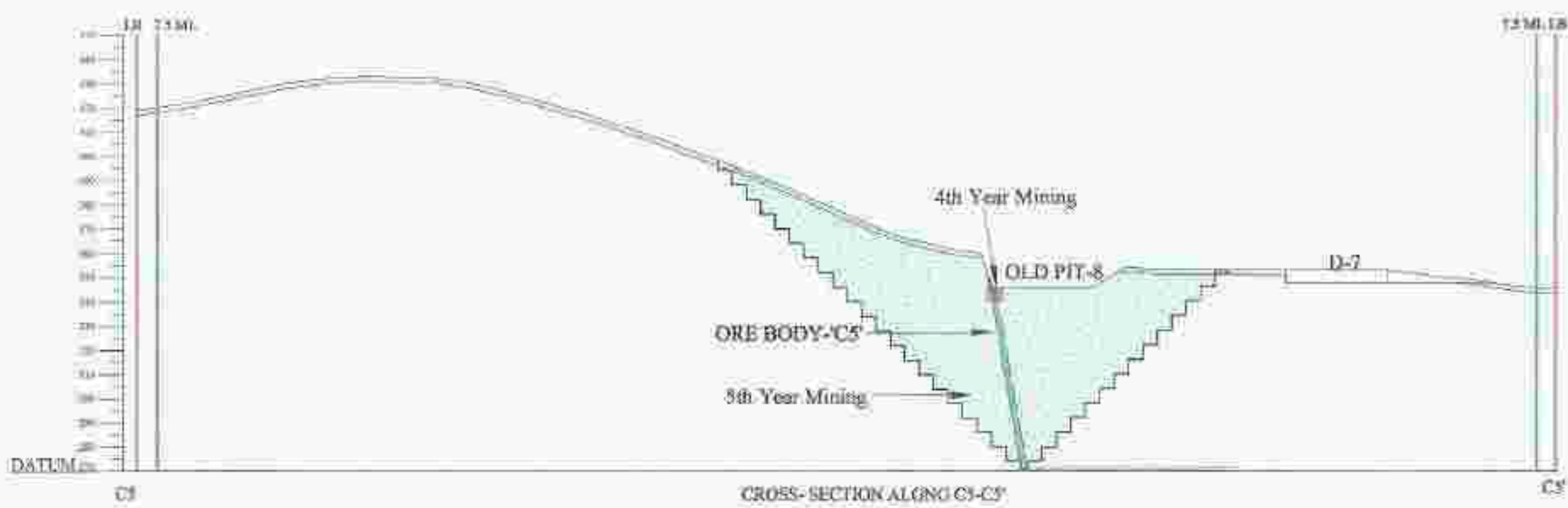
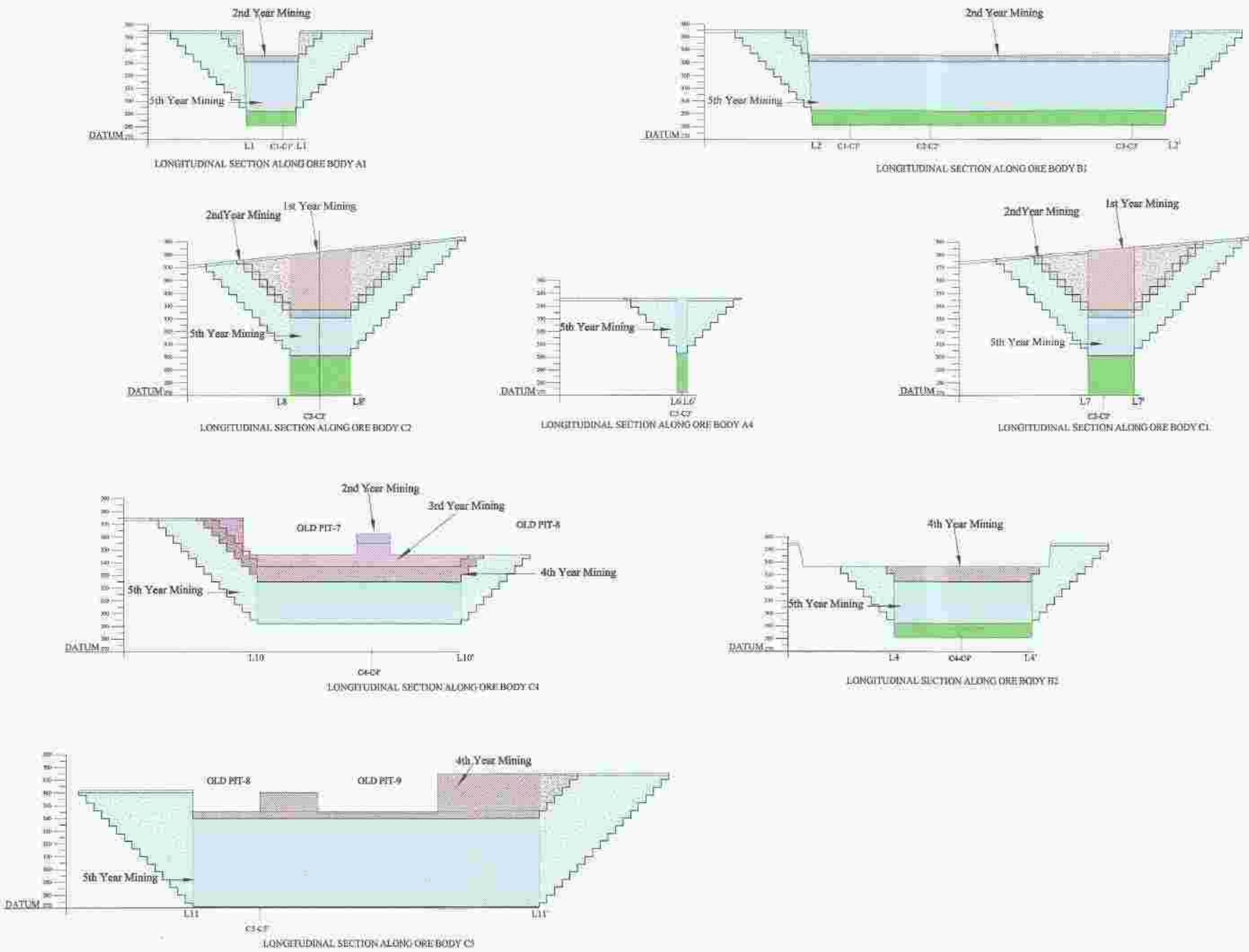
MINERALIZED ZONE AS PER DGM

MINERALIZED ZONE AS PER DGM

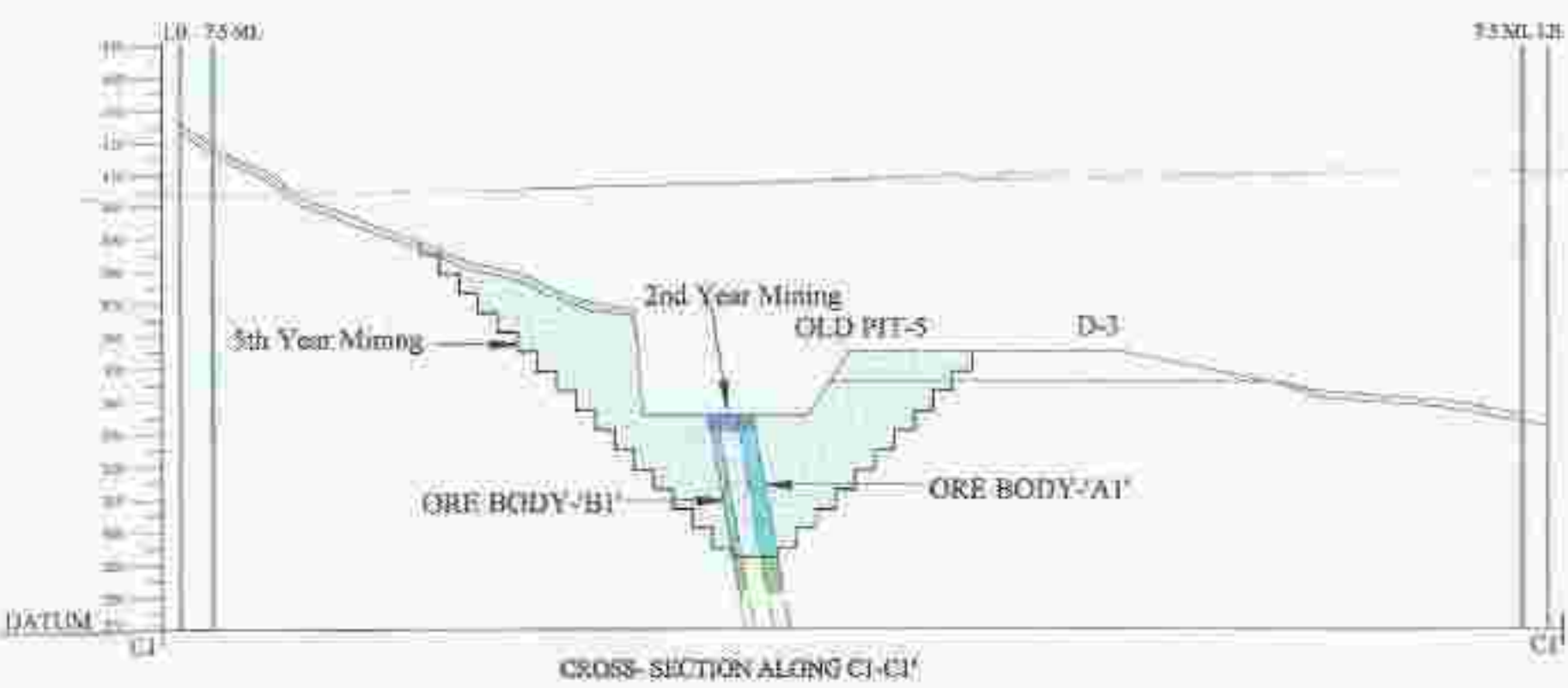
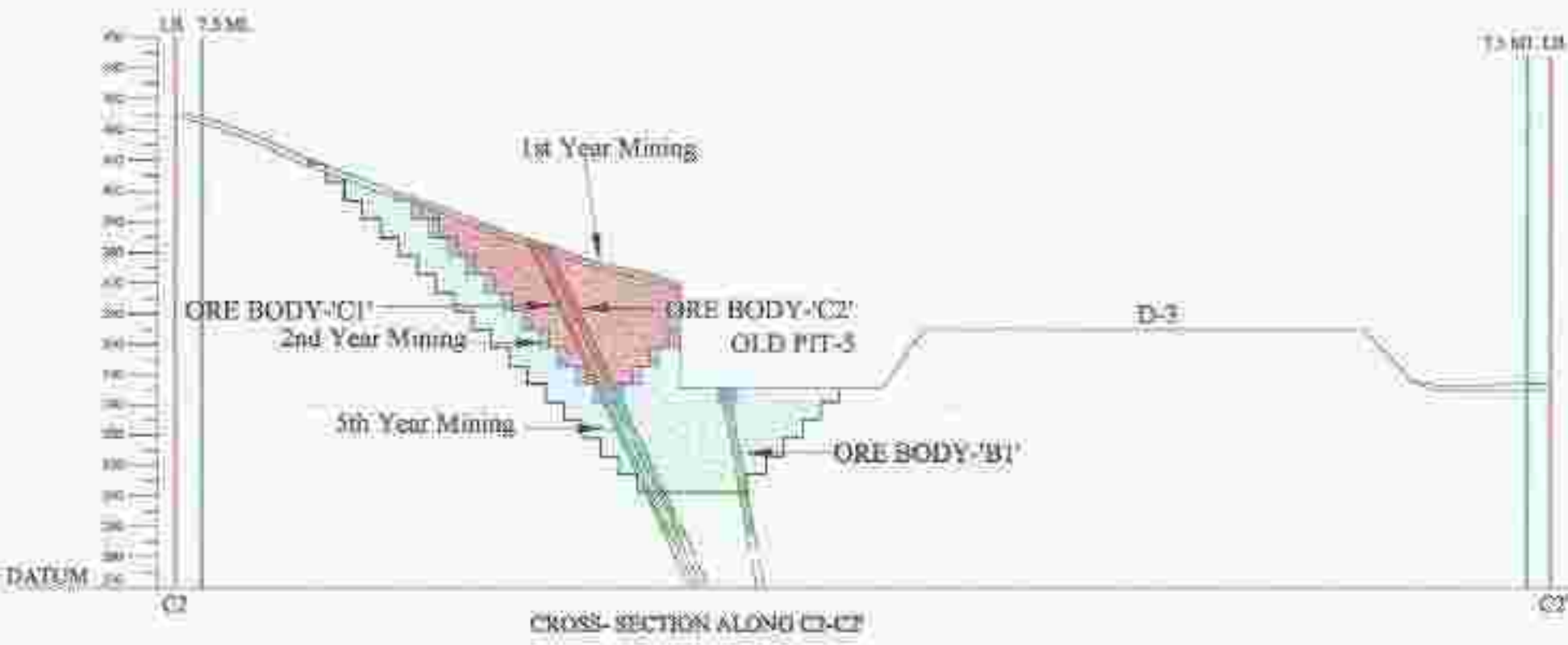
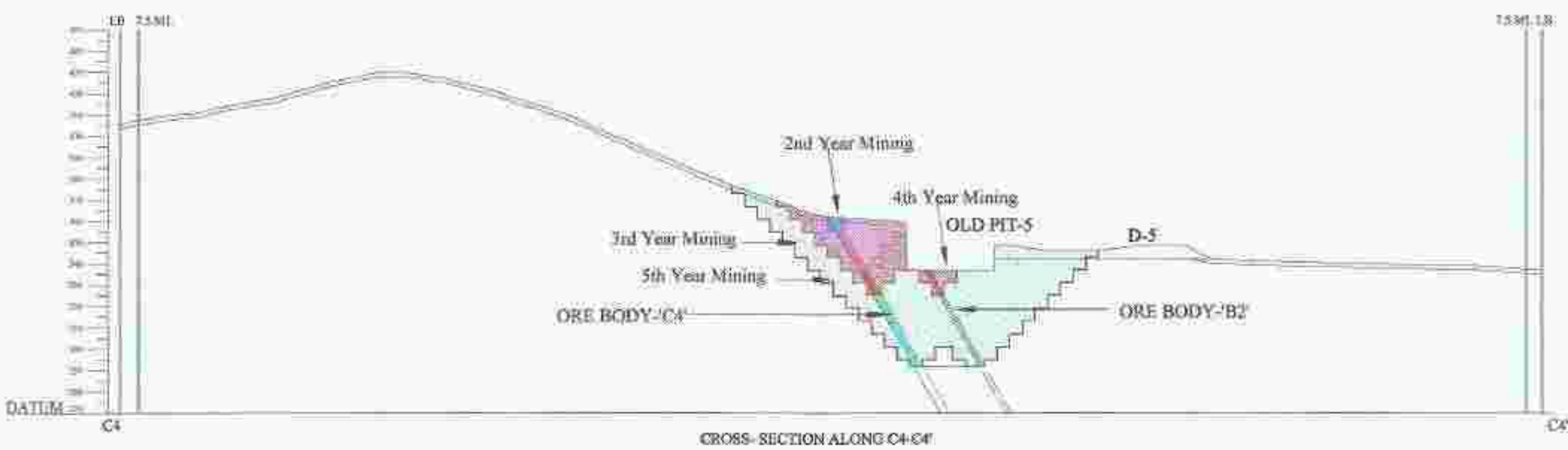
MINERALIZED ZONE AS PER DGM

MINERALIZED ZONE AS PER DGM

अनुमोदित  
APPROVED



| INDEX |                   |
|-------|-------------------|
|       | LEASE BOUNDARY    |
|       | 7.5M MINING LIMIT |
|       | OLD PIT'S         |
|       | NALA              |
|       | ORE BODY          |
|       | SOIL              |



M/s SHANTI G.D. ISPAT & POWER PVT. LTD.  
DEVELOPMENT & PRODUCTION SECTIONS  
MINING PLAN  
GUGULDOH MANGANESE ORE BLOCK  
VILLAGE -GUGULDOH AREA - 105.00 Ha.  
TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)  
SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018  
CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED  
ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

E 334300 E 334500 E 334700 E 334900 E 335100 E 335300 E 335500 E 335700 E 335900 E 336100 E 336300 E 336500 E 336700 E 336900

N 2371800

N 2371600

N 2371400

N 2371200

N 2371000

N 2370800

PLATE NO. -6.5



SCALE 1 : 2000

BP-4

BP-1

BP-10

BP-9

BP-8

BP-5

BP-6

BP-7

RETAINING WALL

1st year

2nd year

3rd year

4th year

5th year

C12 C13

C11

C9

C10

C7

C6

C5

C4

C3

C2

C1

B2

B1

A4

A3

A2

A1

L1

L2

L3

L4

L5



PLATE NO. -6.5

M/S SHANTI G.D. ISPAT & POWER PVT. LTD.  
DEVELOPMENT & PRODUCTION PLAN V YEAR

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK  
VILLAGE -GUGULDOH AREA - 105.00 Ha.  
TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018  
CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED  
ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

INDEX

|                            |                             |
|----------------------------|-----------------------------|
| LEASE BOUNDARY             | MINERALIZED ZONE AS PER DGM |
| 7.5M MINING LIMIT          |                             |
| BORE HOLE (DRILLED BY GSI) |                             |
| NALA                       |                             |
| OLD WASTE DUMPS            |                             |
| OLD PITS                   |                             |
| OLD MAUZINE                |                             |
| SURVEY STATION             |                             |
| GRID LINE                  |                             |



CASE 1: 2000



M/s SHANTI G.D. ISPAT & POWER PVT. LTD.

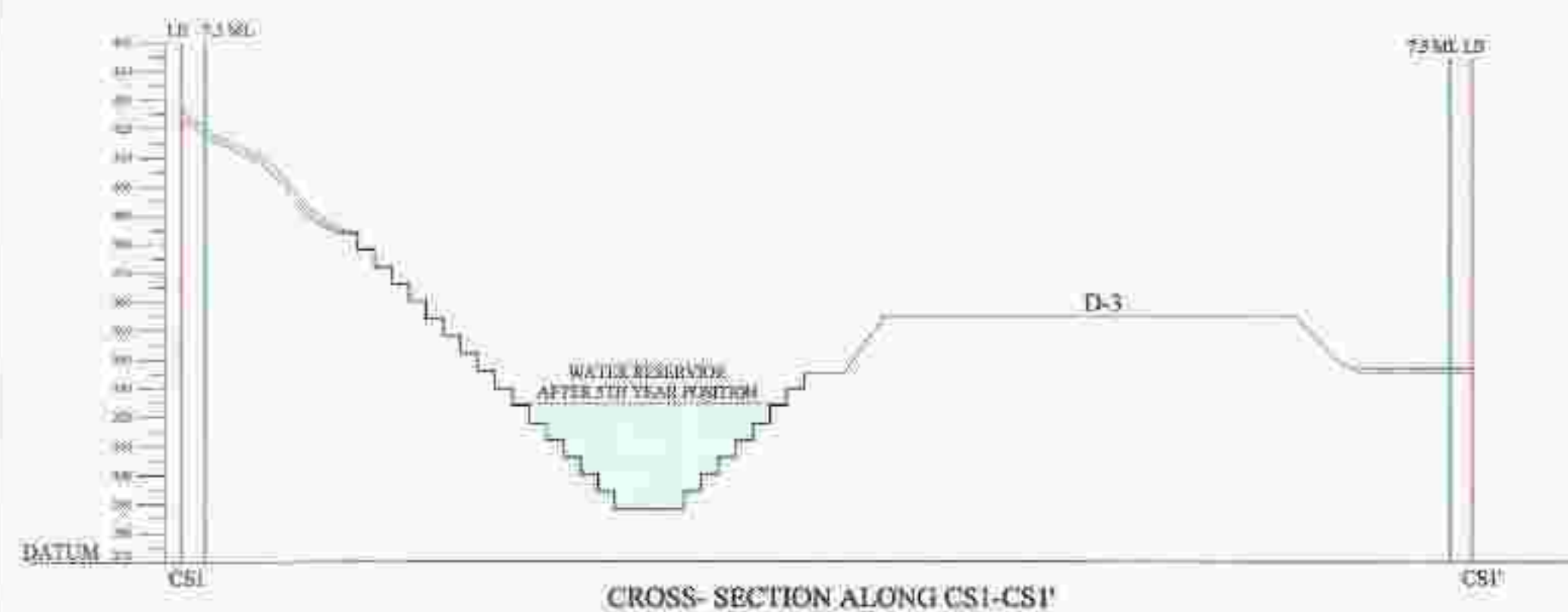
## CONCEPTUAL PLAN

## MINING PLAN

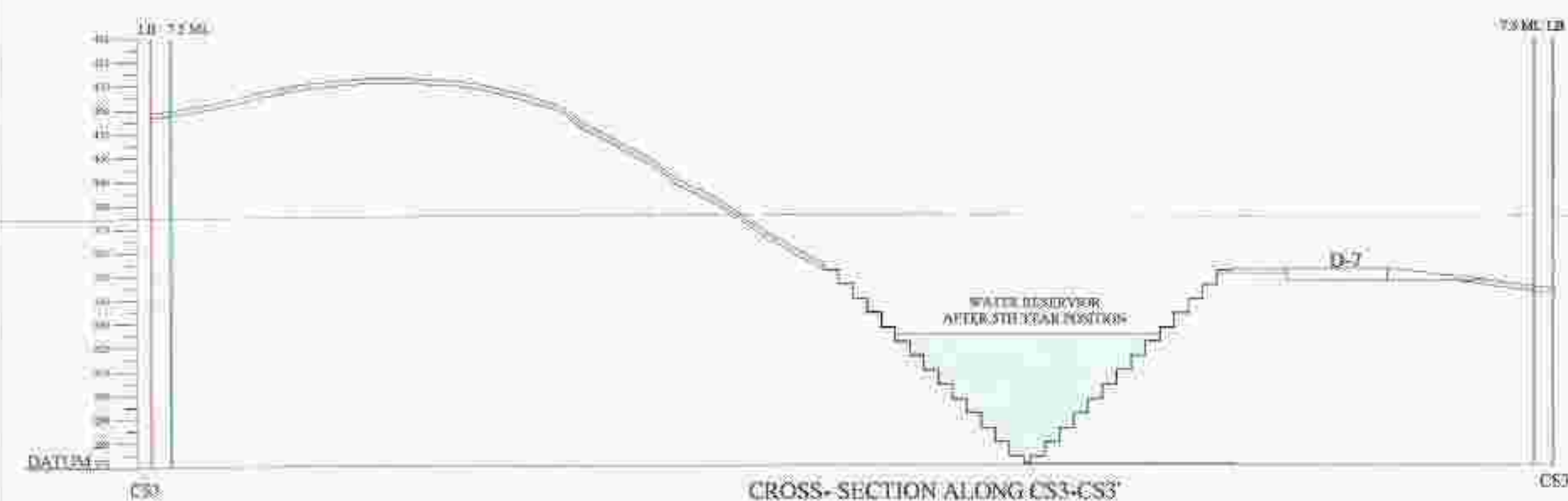
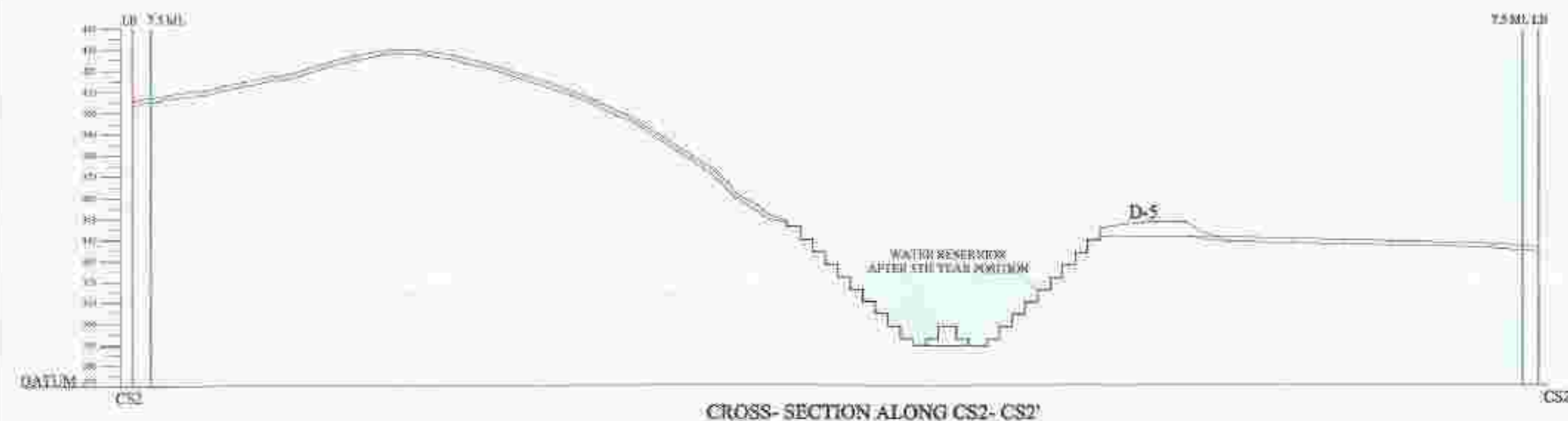
GUGULDOH MANGANESE ORE BLOCK  
VILLAGE -GUGULDOH AREA - 105.00 Ha.  
TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)  
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M. S. WAGHMARE  
QUALIFIED PERSON

| INDEX                      |  |
|----------------------------|--|
| LEASE BOUNDARY             |  |
| 7.5M MINING LIMIT          |  |
| BORE HOLE (DRILLED BY GSI) |  |
| NALA                       |  |
| OLD WASTE DUMPS            |  |
| OLD PITS                   |  |
| OLD MAGAZINE               |  |
| SURVEY STATION             |  |
| GRID LINE                  |  |
| WATER RESERVOIR            |  |



| INDEX |                   |
|-------|-------------------|
|       | LEASE BOUNDARY    |
|       | 7.5M MINING LIMIT |
|       | WATER RESERVIOR   |
|       | SOIL              |



M/s SHANTI G.D. ISPAT & POWER PVT. LTD.

CONCEPTUAL SECTIONS

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

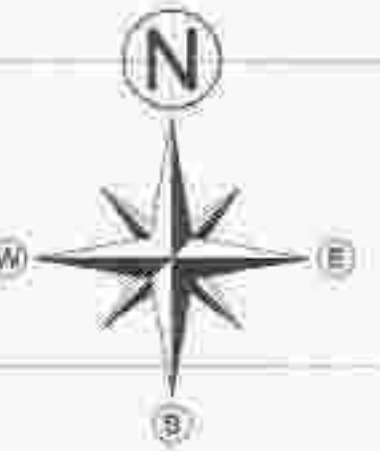
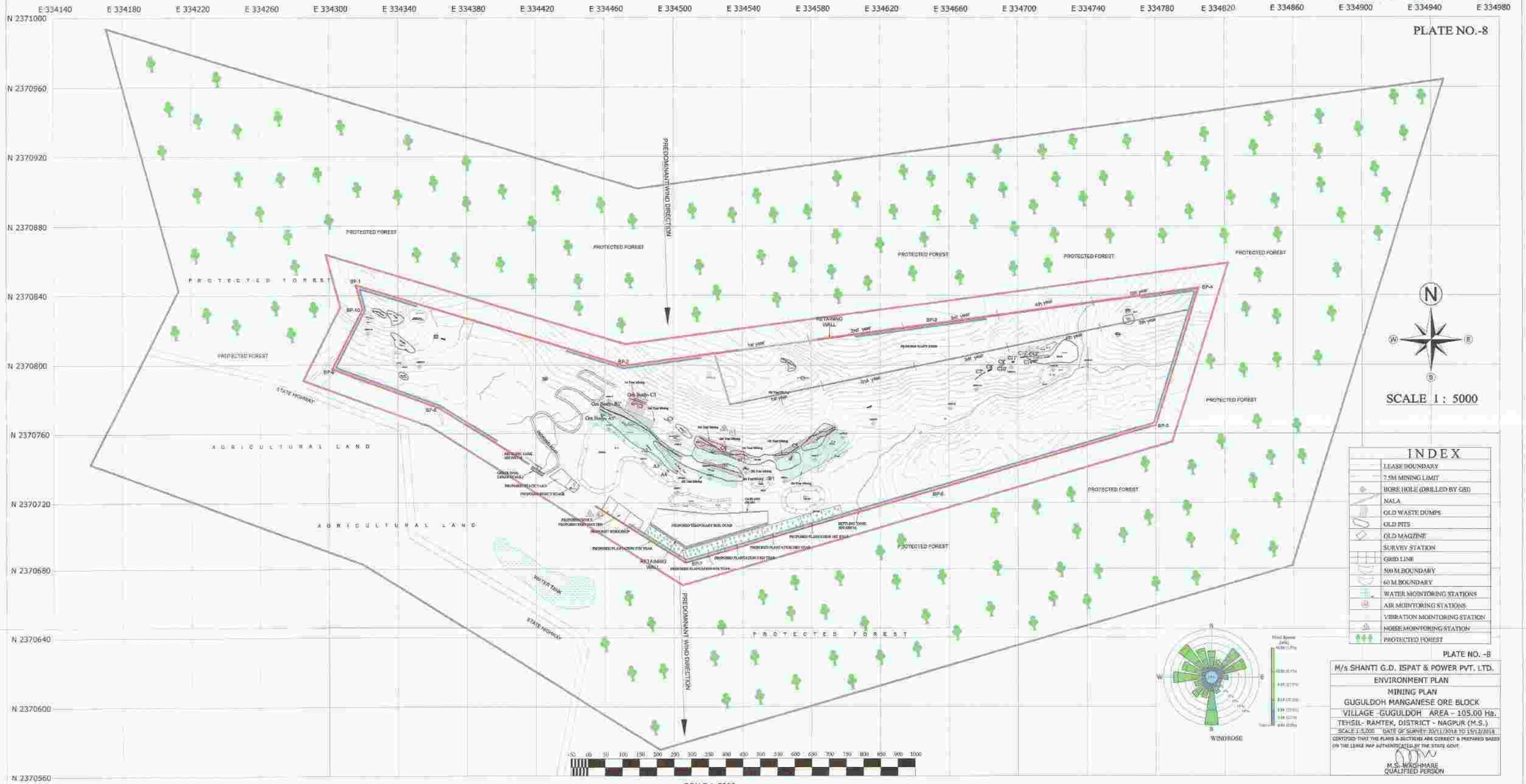
VILLAGE -GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON



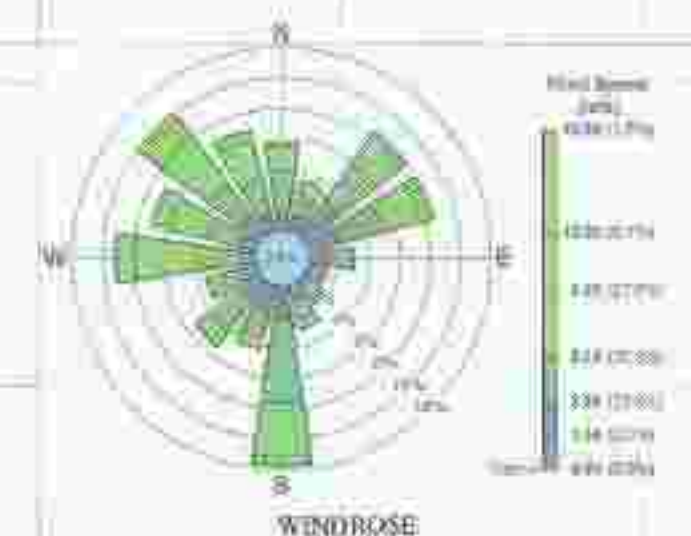
SCALE 1 : 5000

INDEX

|  |                              |
|--|------------------------------|
|  | LEASE BOUNDARY               |
|  | 25M MINING LIMIT             |
|  | BORE HOLE (DRILLED BY GSI)   |
|  | NALA                         |
|  | OLD WASTE DUMPS              |
|  | OLD PITS                     |
|  | OLD MAGAZINE                 |
|  | SURVEY STATION               |
|  | GRID LINE                    |
|  | 300 M BOUNDARY               |
|  | 60 M BOUNDARY                |
|  | WATER MONITORING STATIONS    |
|  | AIR MONITORING STATIONS      |
|  | VIBRATION MONITORING STATION |
|  | NOISE MONITORING STATION     |
|  | PROTECTED FOREST             |

PLATE NO.-8

M/s SHANTI G.D. ISPAT & POWER PVT. LTD.  
ENVIRONMENT PLAN  
MINING PLAN  
GUGULDOH MANGANESE ORE BLOCK  
VILLAGE - GUGULDOH AREA - 105.00 Ha.  
TEHSIL - RAMTEK, DISTRICT - NAGPUR (M.S.)  
SCALE 1:5000 DATE OF SURVEY 20/11/2018 TO 15/12/2018  
CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEGAL MAP AUTHENTICATED BY THE STATE GOVT.  
M.S. WACHHARE  
QUALIFIED PERSON



SCALE 1:5000

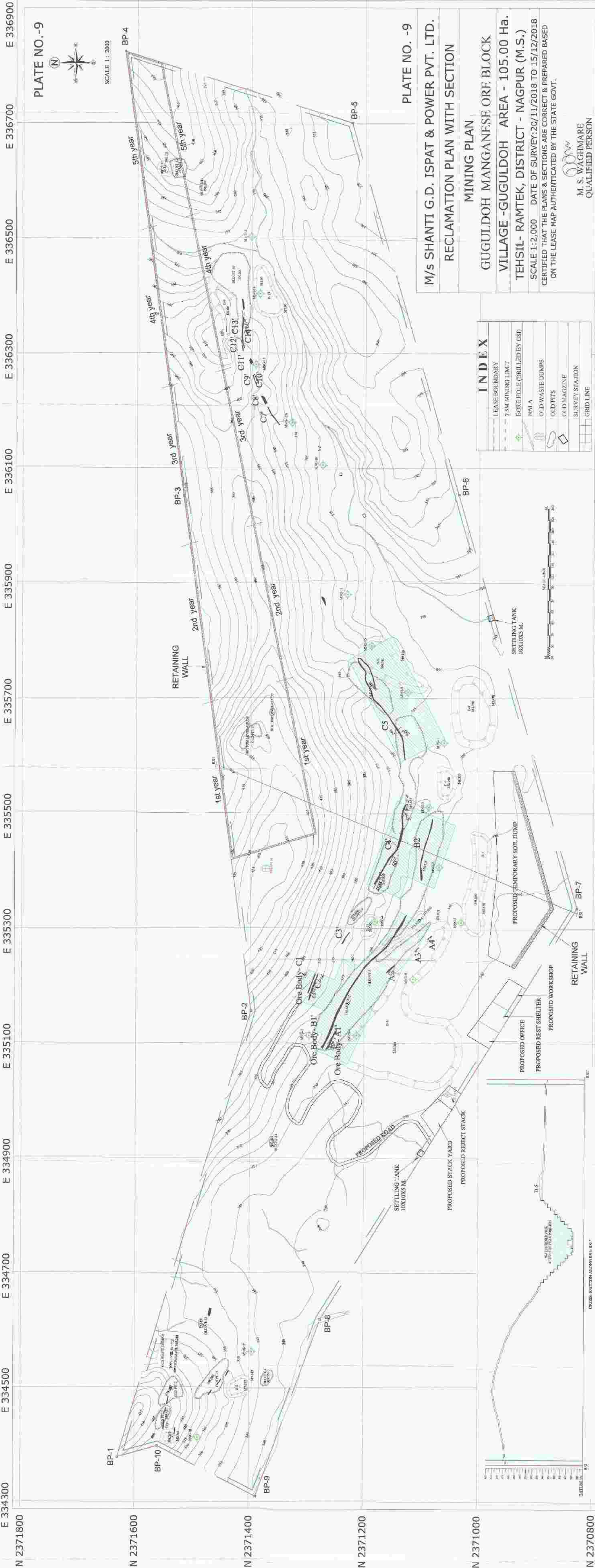


PLATE NO.-9



SCALE 1 : 2000

PLATE NO. -9

M/S SHANTI G.D. ISPAT & POWER PVT. LTD.

RECLAMATION PLAN WITH SECTION

MINING PLAN

GUGULDOH MANGANESE ORE BLOCK

VILLAGE - GUGULDOH AREA - 105.00 Ha.

TEHSIL- RAMTEK, DISTRICT - NAGPUR (M.S.)

SCALE 1:2,000 DATE OF SURVEY:20/11/2018 TO 15/12/2018

CERTIFIED THAT THE PLANS & SECTIONS ARE CORRECT & PREPARED BASED ON THE LEASE MAP AUTHENTICATED BY THE STATE GOVT.

M. S. WAGHMARE  
QUALIFIED PERSON

INDEX

|                |                   |                            |     |                 |          |              |                |           |
|----------------|-------------------|----------------------------|-----|-----------------|----------|--------------|----------------|-----------|
| LEASE BOUNDARY | 7.5M MINING LIMIT | BORE HOLE (DRILLED BY GSI) | N/A | OLD WASTE DUMPS | OLD PITS | OLD MAGAZINE | SURVEY STATION | GRID LINE |
|----------------|-------------------|----------------------------|-----|-----------------|----------|--------------|----------------|-----------|

SETTLING TANK  
10X10X5 M.



PROPOSED TEMPORARY SOIL DUMP

PROPOSED OFFICE  
PROPOSED REST SHELTER  
PROPOSED WORKSHOP

CROSS SECTION ALONG RS1- RS1'

E 334300 E 334500 E 334700 E 334900 E 335100 E 335300 E 335500 E 335700 E 335900 E 336100 E 336300 E 336500 E 336700 E 336900

N 2371800

N 2371600

N 2371400

N 2371200

N 2371000

N 2370800

PLATE NO.-10



SCALE 1: 2000

BP-4

5th year

4th year

3rd year

2nd year

1st year

RETAINING WALL

BP-3

BP-2

BP-1

BP-10

BP-9

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# DGPS SURVEY MAP OF GUGALDOH BLOCK ON KHASARA MAP INDICATING BOUNDARY PILLARS

Mineral - Manganese ore Area - 105.00 Ha. Taluka- Ramtek, District - Nagpur

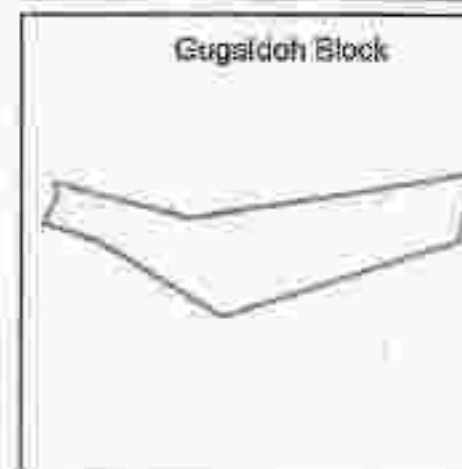
PLATE-11

## Legend

- Boundary Pillars
- Block Boundary



1:11,000



| Sr. No. | Boundary Pillars | LATITUDE       | LONGITUDE      |
|---------|------------------|----------------|----------------|
| 1       | BP-1             | 21° 26' 18.82" | 79° 24' 06.57" |
| 2       | BP-2             | 21° 26' 11.55" | 79° 24' 33.67" |
| 3       | BP-3             | 21° 26' 15.74" | 79° 25' 04.74" |
| 4       | BP-4             | 21° 26' 19.38" | 79° 25' 31.55" |
| 5       | BP-5             | 21° 26' 06.40" | 79° 25' 27.36" |
| 6       | BP-6             | 21° 25' 0.08"  | 79° 25' 04.98" |
| 7       | BP-7             | 21° 25' 53.06" | 79° 24' 40.10" |
| 8       | BP-8             | 21° 26' 7.38"  | 79° 24' 15.07" |
| 9       | BP-9             | 21° 26' 10.94" | 79° 24' 04.29" |
| 10      | BP-10            | 21° 26' 16.56" | 79° 24' 07.27" |

Surveyed and Checked  
Department of Industries,  
Government of Maharashtra,  
Nagpur



Directorate of Geology and Mining

Dept. of Industries, Govt. of Maharashtra,  
Kharaj Bhawan Shivali Nagar, Nagpur - 40