

Pre-Feasibility Report
for
PENAGADAPA OC PROJECT
Kothagudem Area



Project Area: 415.768 Ha
Targeted Capacity
a. **Rated Capacity: 1.5 MTPA**
b. **Peak Capacity (@150% of the Rated Capacity): 2.25 MTPA**

Base Date – April' 2020

THE SINGARENI COLLIERIES COMPANY
LIMITED
(A GOVERNMENT COMPANY)

Department of Project Planning
(ISO 9001:2015 Certified)
P.O. Kothagudem Collieries – 507 101
Bhadradi Kothagudem District, Telangana State

February, 2022

.....

2.4 Need for the project and its importance to the Country and or Region:

.....

.....

.....

2.5 Demand-Supply Gap:

.....

.....M.....

Sl. No	Year	2020-21	2021-22	2022-23
01	Demand
02	Supply
03	Gap

2.6 Imports Vs Indigenous production:

.....

2.7 Export possibility:

.....

2.8 Domestic / export markets:

.....

3.6 Raw materials required along with estimated quantity, likely source, marketing area of final product, Mode of transport of raw Material and Finished Product:

- Raw materials required for the production of the product are as follows:

Material	Quantity/Annunum	Source
...
D...

- ...
- ...
- ...

3.7 Resource optimization/recycling and re-use envisaged in the project, if any

Resource optimization/recycling and re-use envisaged in the project is as follows:

...

3.8 Availability of water source, Energy/power requirement and source:

Availability of water source, Energy/power requirement and source is as follows:

- ...
- ...

D...	...
I...	...
...	...
M...	...

4. SITE ANALYSIS

4.1 Connectivity

- ♦
- ♦
- ♦

**4.2 Land Form, Land use and Land ownership:
(Pre-Mining Land Use pattern with land ownership)**

Land Type		Area
Agriculture	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
Barren land	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
Barren land	Barren land	
	Barren land	
Barren land		
Total		415.768

4.3 Topography (along with map):

Physiography:

- ♦
- ♦

Drainage:

- ♦

- ♦
- ♦
- ♦

4.4 Existing land use pattern (agriculture, non-agriculture, forest, water bodies(including area under CRZ)),shortest distances from the periphery of the project to periphery of the forests, national park, wild life sanctuary, eco sensitive areas, water bodies(distance from the HFL of the river). In case of industrial area, a copy of the Gazette notification should be given.

Land Type		Area
Agriculture	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Barren land	
	Road	
	Barren land	
Non-agriculture	Barren land	
	Barren land	
	Barren land	
	Road	
	Barren land	
Water bodies	Road	
	Barren land	
Barren land		
Total:		415.768

Parameters	Minimum	Maximum
...
...
...
...
D...

□

Coal production Plan:

YEAR		Coal Production Schedule	OB (MM ³)	SR
Year of Operation	Calendar Year			
		D...		
Grand Total		20.88	211.147	10.11

- ...
- ...

5.2 Population Projection:

A. Departmental	Equipment	Capacity	No.s
Reclamation	Dumper	100000	2
	Motor grader	100000	1
	Grader	100000	1
	Drum roller	100000	1
	Total		4
B. Out sourcing/MDO			
Coal (1.5 Mty)	Motor grader	100000	2
	Dumper	100000	1
	Motor grader	100000	1
	Grader	100000	1
	Motor grader	100000	1
	Dumper	100000	1
Overburden Removal (Avg.17.50 MM ³ /Yr)	Dumper	100000	1
	Dumper	100000	1
	Motor grader	100000	1
	Grader	100000	1
	Drum roller	100000	1
	Dumper	100000	1
Common	Grader	100000	1
	Grader	100000	1
	Motor grader	100000	1
	Motor grader	100000	1
	Dumper	100000	1
	Grader	100000	1
	Dumper	100000	1
	Total		122

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-
-
-
-
-
-
-
-

5.3 Land use planning (break up along with green belt etc.): (in Ha)

Type	Land use (Proposed)	Land use (End of life)	Land use (Post Closure)						
			Agricultural land	Plantation	Water body	Public/ Company Use	Forest land (Returned)	Un-disturbed	Total
Open cast mining area	119.945								119.945
Underground mining area	88.822								88.822
Open cast mining area (Green belt)									
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									128.621
Underground mining area (Total)									57.206
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									3.182
Underground mining area (Water body)									
Underground mining area (Public/ Company Use)									
Underground mining area (Forest land (Returned))									
Underground mining area (Un-disturbed)									
Underground mining area (Total)									0.380
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									1.661
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									10.753
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									4.901
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									0.297
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									
Open cast mining area (Water body)									
Open cast mining area (Public/ Company Use)									
Open cast mining area (Forest land (Returned))									
Open cast mining area (Un-disturbed)									
Open cast mining area (Total)									
Total	415.768	415.768	165.4718	4.1174	3.1919	242.9869			415.768

Note

- Open cast mining area (Water body)
- Open cast mining area (Public/ Company Use)
- Open cast mining area (Forest land (Returned))
- Open cast mining area (Un-disturbed)

5.4 Major Diversions

- ✓ The proposed diversion of the R... road... Conceptual Plan is enclosed as Plate No. VI
- ✓ The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI
- ✓ The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

5.5 Assessment of infrastructure Demand (physical & social):

The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

5.6 Amenities/Facilities:

The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

6. PROPOSED INFRASTRUCTURE:

6.1 Industrial Area (Processing Area):

The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

6.2 Residential Area (Non-Processing Area):

The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

6.3 Green Belt:

The proposed diversion of the... road... Conceptual Plan is enclosed as Plate No. VI

10. JUSTIFICATION

- The project is justified as it will provide employment opportunities for the local population and contribute to the economic development of the region.
- The project is justified as it will provide a reliable source of energy for the local population and contribute to the economic development of the region.
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□

11. RISK FACTORS ANALYSIS

- The project is subject to the risk of fluctuating coal prices, which could affect the project's profitability.
- The project is subject to the risk of fluctuating coal prices, which could affect the project's profitability.
- The project is subject to the risk of fluctuating coal prices, which could affect the project's profitability.

□

Government of India

Ministry of Coal

O/o the Nominated Authority

World Trade Centre, New Delhi

Office of the nominated authority constituted under section 6 of the Coal Mines (Special Provisions) Act, 2015.

Allotment order under clause (c) of sub-rule (2) of rule 7 and sub-rule (1) of rule 13

In re: **Penagaddppa Coal Mine** (the "mine") particulars of which is specified in **Annexure I**

Order no.: F. No. 103/7/2016/NA

Date: December 15, 2016

In favour of: **The Singareni Collieries Company Limited** incorporated in India under the Companies Act, 1956 with corporate identity number 'U10102TG1920SGC000571, whose registered office is at Kothagudem Collieries, Khammam – District, Telangana – 507101, India (the "Allottee")

For: Sale of Coal

WHEREAS, the nominated authority has, in accordance with the provisions the Coal Mines (Special Provisions) Act, 2015 (the "Act") and the Coal Mines (Special Provisions) Rules 2014 (the "rules") conducted the allotment of the relevant Schedule I coal mine;

AND WHEREAS the allottee is eligible to receive this allotment order with respect to the mine, including, inter-alia -

- (a) the coal bearing land acquired by the prior allottee and the lands, in or adjacent to the coal mines used for coal mining operations acquired by the prior allottee; and
- (b) any existing mine infrastructure as defined in clause (j) of sub-section (1) of section 3 of the Act;

AND WHEREAS the allottee has furnished performance bank guarantees dated i) November 22, 2016 for an amount equal to INR 38,96,00,000.00 (Indian Rupees Thirty Eight Crore and Ninety Six Lakh) issued by State Bank of Hyderabad and ii) November 22, 2016 for an amount equal to INR 40,00,00,000.00 (Indian Rupees Forty Crore) issued by State Bank of Hyderabad in accordance with the allotment document and in accordance with the provisions of sub-section (6) and sub-section (12) of section 8 of the Act;



AND WHEREAS the allottee has entered into an Allotment Agreement dated October 27, 2016 (as amended) with the nominated authority in accordance with the provisions of sub-rule (5) of rule 13.

NOW, THE NOMINATED AUTHORITY DOES ORDER:

1. On and from December 15, 2016 ("allotment date") and in accordance with sub-section (4) of section 8 read with sub-section (12) section 8 of the Act, with respect to the mine, the following shall stand fully and absolutely transferred and vested in the allottee, namely: -
 - (a) all the rights, title and interest of the prior allottee in and over the land and mine infrastructure free from all encumbrances;
 - (b) entitlement to a mining lease to be granted by the State Government with the terms and conditions of the Allotment Agreement forming a part of it on making an application;
 - (c) all statutory licences, permits, permissions, approvals or consents as per rules, required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 2**;
 - (d) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the Central Government, to the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 3**;
 - (e) entitlement to any statutory licence, permit, permission, approval or consent required to undertake coal mining operations in the mine, if already issued by the State Government, to the prior allottee on making an application on the same terms and conditions as were applicable to the prior allottee, as listed in the **Annexure 4**;
 - (f) rights appurtenant to the approved mining plan of the prior allottee;
 - (g) any subsisting contract in relation to coal mining operations, to which the prior allottee was a party and which is assumed, adopted and continued by the Allottee and listed in the **Annexure 5** shall stand novated (by virtue of a deemed consent from the relevant party(ies)), in accordance with the provisions of sub-section (1) of section 11 of the Act in favour of the allottee for the residual term or residual performance of such contract;
2. The Allottee may seek any change in the terms and conditions attached to such licence, permit, permission, approval or consent by making an application in accordance with applicable laws;
3. Hereinafter, the Allottee shall be entitled to take possession of the mine as specified in Annexure-1 without let or hindrance;



A handwritten signature in black ink, located at the bottom right of the page, next to the official stamp.

4. This allotment order is liable to be cancelled in accordance with the provisions of sub-rule (6) of rule 13.

[Handwritten signature]

[Handwritten signature: Vinod Kumar]

(By the nominated authority)



Annexures:

Annexure I: Particulars of the mine

Part A – Description of the mine

Coal Mine	Penagaddippa
Latitude	N 17°25'00" to 17°26'30"
Longitude	E 80°40'00" to 80°41'30"
Coalfield	Kothagudem Coalbelt, Godavari Valley Coalfield
District	Khammam
State	Telangana



Part B – Description of Land in relation to the mine

Type of Land: Freehold Land for Mining as per Mining Lease

Nil

Type of Land: Leasehold Land for Mining as per Mining Lease

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-



Part C – Description of Mine Infrastructure in relation to the mine

C1- Mine Infrastructure: Immovable Assets

Nil

C2- Mine Infrastructure: Land for Compensatory Afforestation

Type of Land: Freehold Land for Compensatory Afforestation

Nil

Type of Land: Leasehold Land for Compensatory Afforestation

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-

C3- Mine Infrastructure: Resettlement and Rehabilitation Land

Type of Land: Resettlement and Rehabilitation Freehold Land

Nil

Type of Land: Resettlement and Rehabilitation Leasehold Land

Nature	Area (Hectares)
Government Land	-
Private Land	-
Forest Land	-



Annexure 2: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government which are being transferred alongwith this Allocation order.

Not Applicable



Annexure 3: Particulars of statutory licences, permits, permissions, approvals or consents issued by the Central Government to be obtained on application by the Allottee.

Not Applicable



Annexure 4: Particulars of statutory licences, permits, permissions, approvals or consents issued by the State Government to be obtained on application by the Allottee.

Not Applicable



Annexure 5: Particulars of the contracts adopted by the Allottee.

The Allottee does not intend to adopt and continue with any of the contracts of the Prior Allottee.





cmpdi
A Mini Ratna Company

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी / भारत सरकार का एक लोक उपक्रम)
गोन्दवाना प्लेस, कान्के रोड, रांची - 834 031, झारखंड (भारत)
Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)
CORPORATE IDENTITY NUMBER - U14292.TN1975601001223

Ref. No: CMPDI/DG/148/Penagadapa/2021 /605

Date: 01.10.2021

To
Sri Manish Uniyal,
Under Secretary to the Govt. of India
O/o Nominated Authority
Ministry of Coal, Shastri Bhavan
New Delhi

Sub: Examination of GR-2019 and bounding coordinates of Penagadapa Coal Block

Dear Sir,

With reference to the observations of Nominated Authority, MoC, Govt. of India on the issues raised by the Mining Plan Committee, the SCCL approached CMPDIL for detailed examination of GR and scrutiny of exploration work carried-out by SCCL. Accordingly, the team of CMPDIL has visited the Penagadapa Coal Block during 20-09-2021 to 24-09-2021 and after examination, the findings of CMPDIL are as follows:

1. As per mine dossier, area of the block was 2.70 sq km and coal resources were 110.87 MT (up to I seam), where as in the GR submitted by SCCL in 2019, the block area remained same i.e. 2.70 sq km and resources instead of earlier auctioned 110.87 MT are 47.403 MT (37.98 pertaining to Index above I seam & I seam and 9.423 MT in Queen seam).
2. After examining the geological report, it has been seen that out of 2.70 sq.km block area only 2.18 sq.km is coal bearing and rest of the area is occupied by metamorphic rocks. Thus there is actual reduction in coal bearing area. The same has been also confirmed by field visit to the said block and adjacent blocks/mines.

Regarding coal resources in the block all the available GRs (1. Geological appraisal report on Penagadapa block – 1983, 2. Geological report on Penagadapa block – 2019) as provided by SCCL were studied. It has been seen that –

The 110.87 MT reserve estimation as made in Geological appraisal report on Penagadapa block - 1983 and furnished in CBDPA was based on available borehole data, visual core logging and the conventional method of estimation by considering total seam horizon of 30 m including Coal, shaly coal, carbonaceous shale and non-combustible bands in the coal block area of 270.206 Ha. In 1983, only geological appraisal report was prepared rather than geological report.

SCCL prepared a Geological Report during 2019 for the same coal block area of 270.206 Ha. In this report, exact delineation of faults / Metamorphic rocks contact by drilling additional 11 nos. of boreholes has been done. Thus, the exact coal and non-coal bearing area in the coal block of 270.206 Ha was found to be 218.50 Ha & 51.706 Ha respectively. The reserve estimation was made, using Minex 6.5.3, for an in-band thickness ranging from 5.44 to 16.85 m including coal, shaly coal & low carbonaceous shale and excluding high carbonaceous shale & non-combustible bands as per ISP Norms, 2017.



फोन नम्बर/Phone No. : 0651- 2232637

फैक्स नम्बर/Fax No. :

ई-मेल/E-mail: gmexpl.cmpdi@coalindia.in

वेब साईट/Website: www.cmpdi.co.in



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A Mini Ratna Company

सेन्ट्रल माईन प्लानिंग एण्ड डिजाइन इन्स्टीच्यूट लिमिटेड
(कोल इण्डिया लिमिटेड की अनुषंगी कम्पनी / भारत सरकार का एक लोक उपक्रम)
गोन्दवाना प्लेस, कान्के रोड, राँची - 834 031, झारखंड (भारत)
Central Mine Planning & Design Institute Limited
(A Subsidiary of Coal India Limited / Govt. of India Public Sector Undertaking)
Gondwana Place, Kanke Road, Ranchi - 834 031, Jharkhand (INDIA)
CORPORATE IDENTITY NUMBER - U14292TH1975601001223

With the aforesaid reasons, there is marked difference between initially estimated resources (110.87 MT) and presently explored reserves (41.77 MT).

Based on the data provided by SCCL, it is clearly seen that there is reduction in coal reserve and reduction in coal bearing area with respect to CBDPA.

3. The bounding co-ordinates of the block as per allotment order are Latitude 17° 25' 00" N to 17° 26' 30" N, Longitude 80° 40' 00" E to 80° 41' 30" E. The value of bounding co-ordinates of the block as per allotment order differ with the ones provided by SCCL in the authenticated proposed mine plan.
4. CMPDI team has examined the block boundary coordinates & Location of 2 boreholes of Penagadapa coal block with the help of ground DGPS survey with reference to SCCL authenticated proposed mine plan. Based on the examination of block boundary cardinal points & borehole locations on the ground are found to be correct with reference to SCCL authenticated proposed mine plan.
5. Thus, the bounding coordinates of the Penagadapa coal block as derived from block boundary cardinal points are same as per the SCCL authenticated proposed mine plan & given below for issuing revised bounding coordinates in the vesting order:

	MIN.	MAX.
LATITUDE	17° 24' 50.37" N	17° 26' 13.13" N
LONGITUDE	80° 39' 20.66" E	80° 40' 30.38" E

Thanking you,

Yours Faithfully

GM (Exploration)

CC:

1. O/o Nominated Authority, MoC, Shastri Bhavan, New Delhi.
2. Advisor (Projects), MoC, Shastri Bhavan, New Delhi.
3. Director (T/CRD), CMPDI, Gondwana Place, Kanke Road, Ranchi
4. GM TS to CMD, CMPDI, Gondwana Place, Kanke Road, Ranchi
5. GM (Exploration), SCCL, Kothagudem, Telangana
6. GM (UMD), CMPDI, CMPDI, Gondwana Place, Kanke Road, Ranchi



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वेब साइट/Website: www.cmpdi.co.in

File No. NA/103/7/2016
 Government of India
 Ministry of Coal
 O/o Nominated Authority

R.No.120-F, Shastri Bhawan, New Delhi-110001
 Dated: the 10th November, 2021

To,

Managing Director,
 The Singareni Collieries Company Ltd,
 Kothagudem Collieries,
 Khammam District,
 Telangana-507101

Subject: Request for accepting the GR-2019 and approving the bounding coordinates as per the GR of Penagadappa Coal Block – Reg

Reference:

- i) Letter dated 05.05.2021 received from SCCL on the subject captioned above(enclosed)
- ii) Letter dated 01.10.2021 received from CMPDIL as clarification in the matter (enclosed).

Sir,

The undersigned is directed to refer to letter dated 05.05.2021 received from SCCL on the subject mentioned above wherein it was requested from Nominated Authority to:

- i. accept the Geogical Report (GR-2019) prepared by SCCL; and
- ii. approve the block coordinates as furnished in GR -2019

2. Since matter involves technical aspect, comments of CMPDIL were requested by O/o Nominated Authority in the matter. CMPDIL vide letter dated 01.10.2021 furnished its comments in the matter which may be found enclosed.

3. On the basis of comments received from CMPDIL, Corrigendum to the Allotment order with following revised coordinates is being issued:

	MIN	MAX
LATITUDE	17°24'50.37" N	17°26'13.13" N
LONGITUDE	80°39'20.66" E	80°40'30.38" E

4. Further, on the matter of acceptance of GR by Nominated Authority, it is hereby submitted that there are no provisions either in Allotment Agreement or CMSP Act/Rules that confers authority to Nominated Authority to examine GR for its approval.

Yours faithfully,



[Manish Uniyal]

Under Secretary to the Government of India
Tel: 011-23384106

Encl: as above

Copy to:

Coal Controller, Coal Controller's Organization, 1, Council House Street, Kolkata-700001
email: : coalcont-wb@nic.in

**GOVERNMENT OF TELANGANA
DEPARTMENT OF MINES AND GEOLOGY**

From: Sri K. Jai Singh, M.Sc.,
Asst. Director of Mines and Geology (FAC),
Bhadradi Kothagudem.

To
The Director of Mines & Geology,
Hyderabad.

Lr.No.1924/ML/2020, Date. 03.02.2021

Sir,

Sub: Mines and Quarries – Application for appending the non coal bearing area of 197.268 Ha. Proposed for OB dumping quarry ventures and infrastructures in favour of M/s. The Singareni Collieries Company Limited for approval of “Mining plan for Penagadapa Block located at Penagadapa and Thippanapalli Villages at Chunchupalli and Chandrugunda Mandals in Forest and Non-Forest areas of Bhadradi Kothagudem District – Grant Proposal submitted – Reg.

Ref: Application No. KGM/EST/M/17/447 Dt.02.12.2020 from M/s. The Singareni Collieries Company Limited.

I invite kind attention to the subject and reference cited M/s. The Singareni Collieries Company Limited has filed an application with a request for appending the non coal bearing area of 197.268 ha to the sanctioned coal block by issuing a letter of intent in favour of M/s. The Singareni Collieries Company Limited., located at Penagadapa and Thippanapalli Villages at Chunchupalli and Chandrugunda Mandals in Bhadradi Kothagudem District.

The M/s. SCCL applied for an area of 197.268 ha of Non Coal Bearing Area for dumping of Over Burden and other allied activities.

The details of non coal bearing area as below.

S.no	Description	Comp. No. / Sy.No.	Range/ village	Extent in Hectares
1	Forest Land	31	Ramvaram	27.287
2	Non-Forest Land	146	Thippanapalli	168.706
		116	Thippanapalli	1.275
Total				197.268

Further, it is submitted that M/s. SCCL is holding 2 Mining leases for coal in Penagadapa village, Chunchupalli mandal in Bhadradi Kothagudem District as detailed below.

Sl. No	Name of Mining Lease	Lease Area (Ha.)	NFL	Forest Land		Grant Order Details	Lease Period
				Surface Rights	UG Rights		
1	2 nd Renewal of Mining Lease	5158.00	3692.00	291.82	1174.18	GOMs. 324 IND & Com (M-III) Dept. Dt.12.12.2008	27.04.2009 To 26.04.2029
2	1 st Renewal of GKOCF Phase-I	261.31	0.00	261.31	0.00	GOMs. 211 IND & Com (M-III) Dept. Dt.08.08.2008	19.09.2007 To 18.09.2034

PROJ PLAG
I.W.NO. 204-121
DATE 5.2.21

Sri M. Gangadhara
V. S. Rao

SOM

It is further submitted that as per DGPS map for appending Non-Coal Bearing area over an extent of 197.268 Ha. falls South of the mining lease No.2 in the above table.

Further, it is to submit that SCCL was allotted Penagadapa Coal Block for an extent of 270.206 Ha. by the Nominated Authority, Ministry of Coal, Govt. of India, for commercial mining, vide allotment order F.No.103/7/2016/NA. dt. 15.12.2016. Accordingly, the allotment agreement was entered vide certificate No. IN-DL-857579078236160, Dt. 28.08.2016.

The Mining lease of Penagadapa coal block is yet to be obtained for which Mining plan is to approved from the Ministry of Coal, Govt. of India. For approval of Mining Plan the Ministry of Coal, govt. of India has issued guidelines for preparation of Mining plan for Coal & lignite Blocks vide Office Memorandum . F.No. 34011/28/2019- CPAM, Dtd. 29.05.2020 for which Letter of intent/ GO from state Govt is required by appending the Non coal bearing area to the coal bearing area.

Further, SCCL informed that after completion of Geological report, SCCL is preparing Mining plan including Mine Closure Plan for Penagadapa Coal Block and estimated an extent of 197.268 Ha. of Non Coal Bearing Area is required for allied activities of Coal Mining such as dumping of Overburden, Infrastructure, safe barrier etc.. as already 51.706 ha. is available within the coal block as non coal bearing area and an extent of 145.562 Ha. of non coal bearing area falling outside the coal block is required for allied activities.

The block is mainly covered by Lower Kamthi (Raniganj) Formation on the surface. Archaean gneisses, granite and schists form the basement for these Lower Gondwana sediments. The stratigraphy of the block is in conformity with Kothagudem coal belt.

The Lower Gondwana sediments viz: Talchir, Barakar, Barren measures and Kamthi formations are well preserved in this coal block. Archaean gneisses, granite and schists form the basement for these Lower Gondwana sediments. The stratigraphy of the block is in conformity with Kothagudem coalbelt.

Further it is, submitted that M/s. SCCL informed that the detailed exploration in the proposed Penagadapa Open cast mine which was allotted to SCCL by the Government of India. As per the boreholes P/395, P/068, P/16, P/071, P/375, P/376 and P/144 drilled in the allotted block area, Metamorphic rocks were encountered at vertical depths of 37.00m, 4.88m, 60.62m, 62.03m, 70.60m, 32.91m and 24.72m respectively. The geological mapping data also confirms that there is no existence of Coal in an area of 197.268 Ha. proposed for allied activities of Penagadapa Opencast Mine, which is falling in and around Mohammad Nagar Village (145.562 Ha.) and partly in Penagadapa reserved forest (51.706 Ha.), Penagadapa, Chunchupalli Mandal, Bhadradi Kothagudem District, Telangana State.


The Surveyor of this office has verified that Geo co-ordinates of the non coal bearing area over an extent of 197.268 ha. falling in Penagadapa and Thippanapalli Villages at Chunchupalli and Chandrugunda Mandals in Bhadradi Kothagudem District are found in order.

Further it is submitted that the Director of Mines and Geology, Hyderabad vide memo No.7194/R1-1/2020 dated.26.08.2020 has communicated the guidelines for processing of representation/ applications of M/s. The Singareni Collieries Company Limited. Accordingly the proposals are submitted.

In view of the above circumstances, the appending non coal bearing area of 197.268 Ha. (51.706 Ha is within the allotted block + 145.562 Ha is outside the allotted block) to the allied activities of coal mining in Penagadapa and Thiippanapalli Villages of Forest and Non-Forest areas in Chunchupalli and Chandrugunda Mandals of Bhadradi Kothagudem District in favour of M/s. The Singareni Collieries Company Limited is recommended subject to acquisition of the land from the competent authority, subject to satisfaction of Mines & Minerals (Development & Regulation) Act 1957, Mineral Concession Rules 2016 and amendments thereon.

The connected record of Certificate of Penagadapa Coal Block allied, dated.20.08.2016 of M/s. The Singareni Collieries Company Limited containing current File pages from 01 to 50 in original is submitted herewith for taking further necessary action.

Yours faithfully,


Asst. Director of Mines and Geology(FAC),
Bhadradi Kothagudem.

Encls: (As Above)

Copy submitted to the Dy. Director of Mines and Geology, Warangal for favour of kind information.



The Singareni Collieries Company Limited

(A Government Company)
Kothagudem Collieries – 507 101,
Bhadradi Kothagudem Dist., Telangana

CIN : U10102TG1920SGC000571, Website: www.scclmines.com

Phone No: 08744-242873

Fax No.08744-242393

cosecy@scclmines.com

Ref No: CRP / CS / 54 / 570

Date: 30.10.2020.

G M (PP)

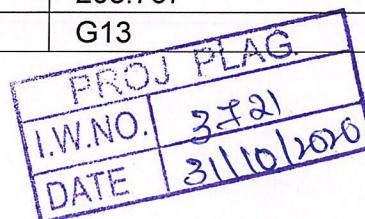
The extract of Minute No. 555:5.22 of Board of Directors meeting held on 03.10.2020 at Hyderabad is furnished below:

Sub: Approval for proposed Mining Plan of Penagadapa OC Project for submission to MoC, Gol.

- 5:22.1 The Board considered the note placed before it.
5:22.2 Director (Finance) & (P&P) (FAC) explained the salient features of the Project.

Description	Particulars
Type of the project	Opencast (OC) – Green Field
Location	Mohammad Nagar (V), Penagadapa, Chandrugonda (Mdl), Kothagudem, Bhadradi district, Telangana-507101 By Road: 14.5 Km By Rail: 15.3 Km By Aerial: 134 Km
Coal field	Godavari Valley Coal Filed
Coal Belt	Kothagudem Coal Bell
Area of the Block (Ha)	270.206
NCBA proposed for OB dumping and Infrastructure outside the block "Ha"	145.562 (NFL)
Project Area "Ha"	415.768 (FL: 243.479+ NFL:172.289)
Minimum depth of the quarry (m)	51
Maximum depth of the quarry (m)	220
Seams as per GR	2 (Index above 1 and 1 seam)
Seams not considered for Mining	Nil
Gradient	1 in 6.5 to 1 in 9
Borehole density (No/Sq.Km)	14
GR "Mte"	37.98
Extractable reserves "Mte"	20.69
Overburden (MM ³)	211.47 [Hard OB: 210.104; Topsoil 1.04 quarry]
Avg. Stripping Ratio (MM ³ /t)	10.20x10 ⁶
Capacity "Mty"	1.50 (Peak_2.25)
Life of the Project "Yrs" (from 2020-21)	17 (Peak_12)
Excavation Area (Ha)	208.767
Average Grade	G13

Contd..2.





The Singareni Collieries Company Limited

(A Government Company)

Kothagudem Collieries – 507 101,

Bhadradri Kothagudem Dist., Telangana

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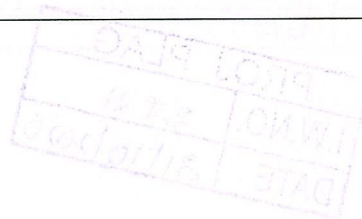
Ref No: CRP / CS / 54 / 570

Date: 20 .10 .2020.

-2-

Description	Particulars
Mining Technology	Coal : Surface Miner OB : Shovel – Dumper
R&R	Mahammad Nagar with 120 structures.
Population to be effected	✓ PDFs : 200 ✓ PAFs: 70
Diversions	✓ Abbugudem-Sitaigudem Public Road passing through quarry proposed for diversion (3.2 Km). ✓ Seasonal Nallah passing through proposed External dump area to be diverted (0.58 Km).
Power Supply	✓ The source of power for the project will be from 132 kV sub-station located at Kothagudem, from there 33kV line, Ananda Khani substation from there extended upto Penagadapa OC Mine, Kothagudem Area. The Power requirement for this project will be about 5 MVAh. Power received at surface sub-station will be stepped down to 3.3 kV for distribution and utilization.
Approach Road	✓ The district headquarters Kothagudem town of Bhadradri district is located on the North at about 13Km from the Block and National Highway NH-221 connecting Kothagudem-Vijayawada is about 100m away from the block to Northwestern side.
Coal Linkage	✓ Sale of coal to FSA & MSME customers.
Coal Evacuation	✓ Coal from quarry to surface pit head CHP by dumpers and to RCHP by trucks and to customers by Rail.
Commencement of Coal production	2022-23 (14.12.2022)

Contd..3.





The Singareni Collieries Company Limited

(A Government Company)

Kothagudem Collieries – 507 101,

Bhadradri Kothagudem Dist., Telangana

CIN : U10102TG1920SGC000571, Website: www.scclmines.com

Phone No: 08744-242873

Fax No.08744-242393

cosecy@scclmines.com

Ref No: CRP / CS / 54 / 570

Date: 30 .10 .2020.

-3-

Description	Particulars
Operation of Escrow account	✓ Principal amount to be deposited - Rs. 55.986 Cr
Mine Closure Cost	✓ Total Mine Closure Activities cost estimate - Rs. 58.611 Cr • Progressive Mine Closure Cost - Rs. 38.537 Cr • Post Mine Closure Cost - Rs. 20.074 Cr

5:22.3 After deliberation, as recommended by the Technical Committee, the Board accorded approval;

- a) for Mining Plan including Mine Closure Plan of Penagadapa OC Project (Project area_415.768 Ha; Capacity_1.50 (Peak_2.25) Mty; Life: 17 (Peak_12 Years).

Name of the Mining Plan	Amount proposed to be deposited (WPI as on April' 2020 - 119.2)		Mine Closure Activities Estimated Cost
	Mine Closure Cost @ 17 Years	After compounding by 5% for 17 Years	
Mining Plan for Penagadapa OC Project	36.832	55.986	58.611

b) Undertaking/Commitment for the following:

- Approval of Mining Plan of Penagadapa OC Project from Board of the Company for correctness of data used in preparation of Mining Plan;
- Details of Qualified Person (QP)/ Accredited Mining plan preparing agency (MPPA) with certification that the eligibility of Qualified person/ Accredited Mining plan preparing agency for this project has been verified and approved by Board vide Board Minute No. 553:5.17, dated 19.06.2020 (as Qualified Person (QP)) as mentioned below:

Name : M. Sree Hari, DGM
Qualification : B.E (Mining)
Experience : 28 years & 6 months

- Acceptance of the Mining Plan by the Board of the Company with recommendation for approval;

Contd..4.



The Singareni Collieries Company Limited

(A Government Company)
Kothagudem Collieries – 507 101,

Bhadradri Kothagudem Dist., Telangana

CIN : U10102TG1920SGC000571, Website: www.scclmines.com

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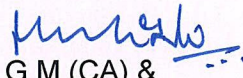
Ref No: CRP / CS / 54 / 570

Date: 30.10.2020.

-4-

- iv. The mines will be developed as per the approval of the mining plan from Ministry of Coal and all other approvals, as required will be obtained from relevant authorities;
 - v. Entire Mining operations will be carried out as per the Statutory Provisions given under Mines Act-1952, Coal Mines Regulation-2017, Environment Protection (EP) Act-1986 and Forest (Conservation) Act-1980 & whenever specific permission will be required, the Company will approach the concerned authorities;
 - vi. Approval for Financial Assistance for implementation;
 - vii. The reclamation and rehabilitation work will be carried out in accordance with the approved Mine Closure Plan and any modification / amendments which may be made in the Mine Closure Plan by Ministry of Coal, from time to time;
 - viii. The protective measures contained in the mine closure plans including reclamation and rehabilitation works will be carried out in accordance with the approved mine closure plans and final mine closure plans and undertake to submit a yearly report before 1st July of every year to the Coal Controller setting forth the extent of protective and rehabilitative works carried out as envisaged in the approved mine closure plans (Progressive and Final Closure);
 - ix. SCCL will obtain a mine closure certificate from Coal Controller to the effect that the protective, reclamation and rehabilitation works are carried out in accordance with the approved mine closure plans/ final mine closure plans and will surrender the reclaimed land to the State Government concerned.
- c) To authorize C&MD/Director (P&P) to approve modifications for the technical and financial parameters of the Mining Plan of Penagadapa OC Project as may be suggested by MoC, GoI, if any, during the approval process.

Action taken / status of implementation on each point of the above minute may be intimated to the undersigned at the earliest as per the guidelines issued by the C&MD vide circular No.CRP/CS/58/200 dt.22.3.2002 for apprising the same to the Board in the next meeting.


G M (CA) &
Company Secretary

Copy to:
G M (CPP)
G M (I&PM)



The Singareni Collieries Company Limited

(A Government Company)
(ISO 9001:2015 Certified)
CIN: U10102TG1920SGC000571



Regd. Office:

Kothagudem Collieries (PO) - 507 101
Bhadradri Kothagudem District
Telangana, India

Director (P&P) : 08744-242328
GM (CP&P) : 08744-243108
GM (PP) : 08744-242395
Fax : 08744-244115/242305
E.Mail : gm_pp@scclmines.com
Website : www.scclmines.com

Ref.No. CRP/PP/F/

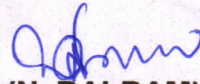
Date: 23.02.2021

Addendum to Board Minute No. 555:5:22 dated: 03.10.2020.

The Mining Plan including Mine Closure Plan for **Penagadapa OC Project** was approved by SCCL Board vide Minute 555:5:22, dated: 03.10.2020. As per the Para No. 5.22.3 (c) of the said minute, C&MD/Director (P&P) is authorized to approve the modifications for **technical and financial parameters.**

The following modifications in view of change in Escalation rate as 1 after approval of the Board are hereunder provided as per the authorization:

Name of the Mine	Amount to be deposited in Escrow Account, Rs. Crores		Mine Closure Activities Cost, Rs. Crores	
	As per SCCL Board Approval	Revised	As per SCCL Board Approval	Revised
Mining Plan for Penagadapa OC Project	55.986	56.878	58.611	58.611


(N. BALRAM)

Director (Planning & Projects)
The Singareni Collieries Company Limited





Annexure – III B



PROJECT PLANNING DEPARTMENT

(ISO 9001:2015 Certified)

CIN: U10102TG1920SGC000571

Epicenter Building

Ref.No.CRP/PP/2(75)/1047A

Date: 11.11.2021

Addendum to Board Minute No. 555:5:22 dated: 03.10.2020.

The **Mining Plan** for **Penagadapa CO Project** was approved by **SCCL Board** vide Minute No. 555:5:22, dated:03.10.2020. As per the para no. 5:22.3 (c) of the said minute, C&MD/Director (P&P) is authorized to approve the modifications for technical and financial parameters.

On transfer of Sri. M. Sree Hari, Qualified Person who prepared the said Mining Plan submitted to MoC, GoI, Sri. M. Gangadhar, Qualified Person (QP) (copy of Board authorization attached as Annexure VII) is now assigned for formulation, preparation, scrutiny and submission of the Mining Plan (including Mine Closure Plan) of Penagadapa OC Project.

General Manager (Project Planning),
The Singareni Collieries Company Limited.

Mining Plan (Including Mine Closure Plan) for PENAGADAPA OC PROJECT

Chart Showing Schedule of Implementation of Mine Closure Activities (Progressive & Final Closure) with Duration of Important Activities for Penagadapa OC Project

Activity	Progressive Mine Closure Activities																	Post Closure Activities				
	Y1	Y2	Y3	Y4	Y5	Y6	Y7	Y8	Y9	Y10	Y11	Y12	Y13	Y14	Y15	Y16	Y17					
	Development Period 2020-22		2022-23	2023-24	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30	2030-31	2031-32	2032-33	2033-34	2034-35	2035-36	2036-37	Y18	Y19	Y20	Y21	Y22
Progressive Closure Activities (Rs. 38.537 Cr.) - (17 Years from 2020-21 to 2036-37)																						
□																						
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Total Cost of Progressive Mine Closure Activities (A):																	38.537					
Post Closure Activities (Rs. 20.074 Cr.) - (5 Years from 2037-38 to 2041-42)																	Y18	Y19	Y20	Y21	Y22	
Dismantling of Infrastructure & Disposal/ rehabilitation of Mining machinery (Rs. 7.384 Cr.)																	2037-38	2038-39	2039-40	2040-41	2041-42	
□																						
□																						
□																						
d																						
□																						
Safety and Security (0.94 Cr)																						
□																						
□																						
□																						
d																						
Technical and Biological Reclamation of Mined out of land and OB Dump (Rs. 3.557 Cr.)																						
□																						
□																						
□																						
□																						
Post Closure Management and Supervision (Rs. 8.171 Cr.)																						
□																						
□																						
□																						
d																						
□																						
Total Cost of Post Closure Activities(B):																	20.074					
Grand Total (A+B)																	58.611					

No: CC/MPMC/207/2021/PENAGADAPA

Government of India
Ministry of Coal
Coal Controller's Organization.

Scope Minar, 5th Floor, Core-II,
Laxmi Nagar, Delhi-110092

Dated 31st January, 2022

To

Director (P&P),
The Singareni Collieries Company Ltd.
Post: Kothagudem Collieries, Dist: Bhadradi Kothagudem.
Telangana - 507101

Subject:- Approval of Mining Plan (Including Mine Closure Plan) for Penagadapa Coal Mine of M/s Singareni Collieries Company Ltd. – reg.

Sir,

In accordance with the deliberations in the Internal Committee meeting held on 27th December, 2021 through Video Conference, I am directed to convey the approval of Coal Controller, under Section 5(2)(b) of the Mines & Minerals (Development & Regulation) Act, 1957, for Mining Plan (Including Mine Closure Plan) for Penagadapa OC Project of M/s Singareni Collieries Company Ltd.

2. The above approval is subjected to the following conditions: -

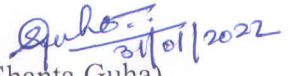
- a. The project proponent should ensure implementation of all observations made by internal committee during actual operation.
- b. Project Proponent shall take all necessary precautions regarding safety of mine workings and persons deployed therein.
- c. Mining lease of this block shall not encroach into any other adjacent coal block.
- d. The cost of abandonment for carrying out the closure activities envisaged in the Mine closure plan is indicative. The actual cost for carrying out the activities at the time of final closure may be higher. The actual cost of abandonment will have to be borne by the project proponent for carrying out the closure activities.
- e. The approval of the Mining Plan (Including Mine Closure Plan) is without prejudice to the requirement of approvals from competent /prescribed authority under the relevant rules/ regulations etc.
- f. Approval of Mining plan is technical in nature, which is granted with a view to facilitating further developmental activities by the allocattee. This approval will have no effect on the penalty provisions of the agreement in case of nonachievement of Milestones
- g. Monitoring of milestone for development of mine will be as per efficiency parameters in CBDPA/CMDPA and appropriation of PBG will be done in case of failure/delay in compliance with the timelines of CBDPA/CMDPA.
- h. Exploration of Queen Seam has been proposed by the project proponent. After the exploration is over, a Revised Mining Plan and Mine Closure Plan incorporating the

Quhe
31/01/2022 01-02-2022, 04:45 pm

liquidation programme of Queen Seam also shall be submitted by the project proponent for approval.

3. Two copies of the approved mining plan duly signed by the competent authority are returned herewith with the request that a copy of the approved mining plan may be submitted to the concerned State Government for necessary action.

Yours faithfully,


(Shanta Guha)

Dy. Assistant Coal Controller

Copy to:-

1. The Chief Secretary, Telangana.
 2. Sh. Ajitesh Kumar, Dy. Secretary (NA), MoC
 3. Sh. D. K. Solanki, Dy. Secretary (P&S-I/P&S-II), MoC.
 4. Sh. Sujoy Majumder, OSD (Mining & QM), CCO.
 5. Sh. D. V. Subrahmanyam, OSD, CCO, Kothagudem.
 6. Sh. Asish Verma, Sr. Mgr., CMPDIL, New Delhi, Member Secretary.
 7. MP&MC Section, CCO – along with a copy of approved mining plan.
- PS to Coal Controller.



THE SINGARENI COLLIERIES COMPANY LIMITED
 (A Government Company)
KOTHAGUDEM AREA

Ref : KGM/EST/F/351403

Date: 31.08.2021

- /GM (PP)
- GM (Estates)
- GM (Survey).

Sub: TSFD-F(C) Act, 1980 – Diversion of 242.9869 Ha. of Forest land in Ramavaram RF, Ramavaram Range of Kothagudem Forest Division of Bhadradri Kothagudem District proposed for Penagadapa Coal Block in favour of SCCL, Kothagudem - Verification and authentication of DGPS data - Communication of Orders - Reg.

- Ref: 1. GM, Kgm Lr.No. KGM/EST/A/15/246, Dated.24.05.2021.
 2. PCCF, Hyd. Lr.No. 8362/2021/FCA-4, Dated.23.07.2021.

Please find enclosed herewith the copy of Authentication for the Forest land of 242.9869 Ha. in Ramavaram RF, Ramavaram Range of Kothagudem Forest Division of Bhadradri Kothagudem District proposed for Penagadapa Coal Block along with Map.

This is for Information.

General Manager
 Kothagudem Area.

Encl: As above.

S. V. Dasgupta
S. V. Dasgupta
S. V. Dasgupta
S. V. Dasgupta

PROJ PLAG.	
I.W.NO.	1398
DATE	03.09.21



**GOVERNMENT OF TELANGANA
FOREST DEPARTMENT**

Rc.No.8362/2021/FCA-4
Dated:23.07.2021.

Office of the Principal Chief Conservator of Forests
(Head of Forest Force),
Telangana, "Aranya Bhavan",
Saifabad, Hyderabad - 500004.

Smt. R.Sobha, IFS
Prl. Chief Conservator of Forests &
Head of Forest Force

Sub: TSFD - F(C) Act, 1980 - Diversion of 242.9869 Ha of forest land in in Ramavaram RF, Ramavaram Range of Kothagudem Forest Division of Bhadradi Kothagudem District proposed for PENAGADAPA COAL BLOCK, in favour of M/s.SCCL, Kothagudem - **Verification and authentication of DGPS data - Communication of Orders** - Reg.

Ref : General Manager, Kothagudem area, SCCL, Ref.No. KGM/EST/A/15/246, Dt. 24.05.2021

The General Manager, Kothagudem area, SCCL vide reference cited has submitted soft and hard copies of the DGPS raw-data for diversion of 243.209 Ha of forest land in in Ramavaram RF, Ramavaram Range of Kothagudem Forest Division of Bhadradi Kothagudem District proposed for PENAGADAPA COAL BLOCK, in favour of M/s.SCCL, Kothagudem and requested for verification and authentication of DGPS data. **It is informed that the ETS & DGPS/ DGNSS data has been verified and accepted.**

It is informed that the proxy RF boundaries depicted on topomaps are used for ascertaining the location of project. The division boundaries are ascertained with the help of available records. The extent of forest area is estimated as are as follows.

Division	Name of Coal Block	RF Block	Area_ha
Kothagudem	Penagadapa Coal Block	Penagadapa RF	242.9869

The Conservator of Forests, Kothagudem, the District Forest Officer, Bhadradi Kothagudem and the Forest Divisional Officer Kothagudem are being requested to verify of absolute locations of **forest lands proposed for diversion** with respect to Gazette notification, to add/ delete the areas, if necessary. The proposed area does not fall in any Protected Area, or it's Eco-Sensitive Zone as per the available records. It is requested to verify and report.

The User Agency is advised to submit one set of proposal with full justification together with all necessary information/ documents in hard copy, for vetting by Nodal Officer for Forest (Conservation) Act, 1980. On successful vetting, the User Agency is requested to upload the proposal in the Ministry's website i.e., <https://parivesh.nic.in/> besides submission of hardcopies i.e., (8) sets of proposal in FCA format addressed in the name of undersigned for processing under Forest (Conservation) Act, 1980 along with all required information/ documents, including the authenticated maps. If the

areas found to be fall in any protected area Wild Life Corridor or Eco-Sensitive Zone of Protected Area/Tiger Reserve during the ground verifications, the User Agency is required to submit (18) sets of proposals in WL format for processing under Wildlife (Protection) Act,1972, and to upload the same at <https://parivesh.nic.in/>.

The General Manager, Kothagudem area, SCCL is also requested to deposit initially an amount of **Rs.8,500/- (Rupees Eight Thousand and Five Hundred Only)** in the shape of demand draft drawn in favour of Joint Secretary, CEFNARM, Hyderabad towards verification and authentication charges of DGPS Survey Data.

Encl: Maps

Sd/- R.Sobha
Principal Chief Conservator of Forests
(Head of Forest Force)

To

✓ The General Manager, M/s Singareni Collieries Corporation Limited, Kothagudem Area, BhadradiKothagudem District, PO:Venkatesh Khani- 507103.


Copy to the Conservator of Forests, Kothagudem and District Forest Officer, Bhadradi Kothagudem and the Forest Divisional Officer, Kothagudem for information and necessary action.

Copy to the Chairman and Managing director, SCCL, Red Hills, PB.No.18, Khairatabad PO, Hyderabad -500004 for information.

//t.c.b.o//

D. Subrah
Superintendent *24/8/21*

24/8/21

 **GM/KGM (L)**
07 AUG 2021
I.W.No.

so to am
po. Penagadep

6/8/21

S

AMT

General Manager
S.C.Co.Ltd., KGM. Area.

Est.
Inward No. 706
Date: 11/08/21

Map showing Forest Land Proposed for Diversion for Proposed Pengadappa OC Coal Block in Kothagudem Forest Division in favor of M/s. SCCL, Kothagudem

Area - 242.9869 Ha



17°25'0"N
17°26'0"N

17°26'0"N
17°25'0"N

17°25'0"N

17°25'0"N

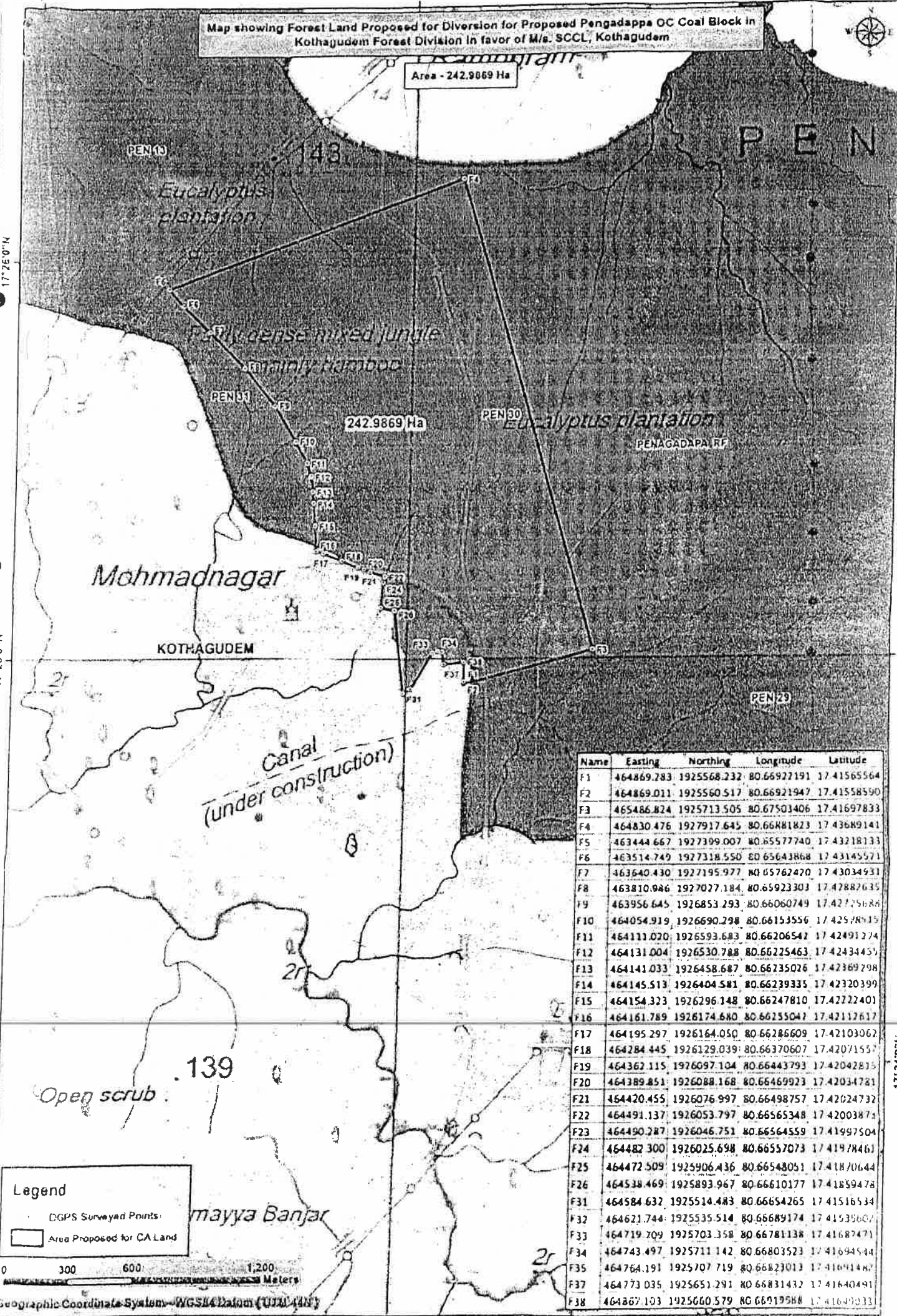
17°24'0"N

Legend

- DGPS Surveyed Points
- Area Proposed for CA Land

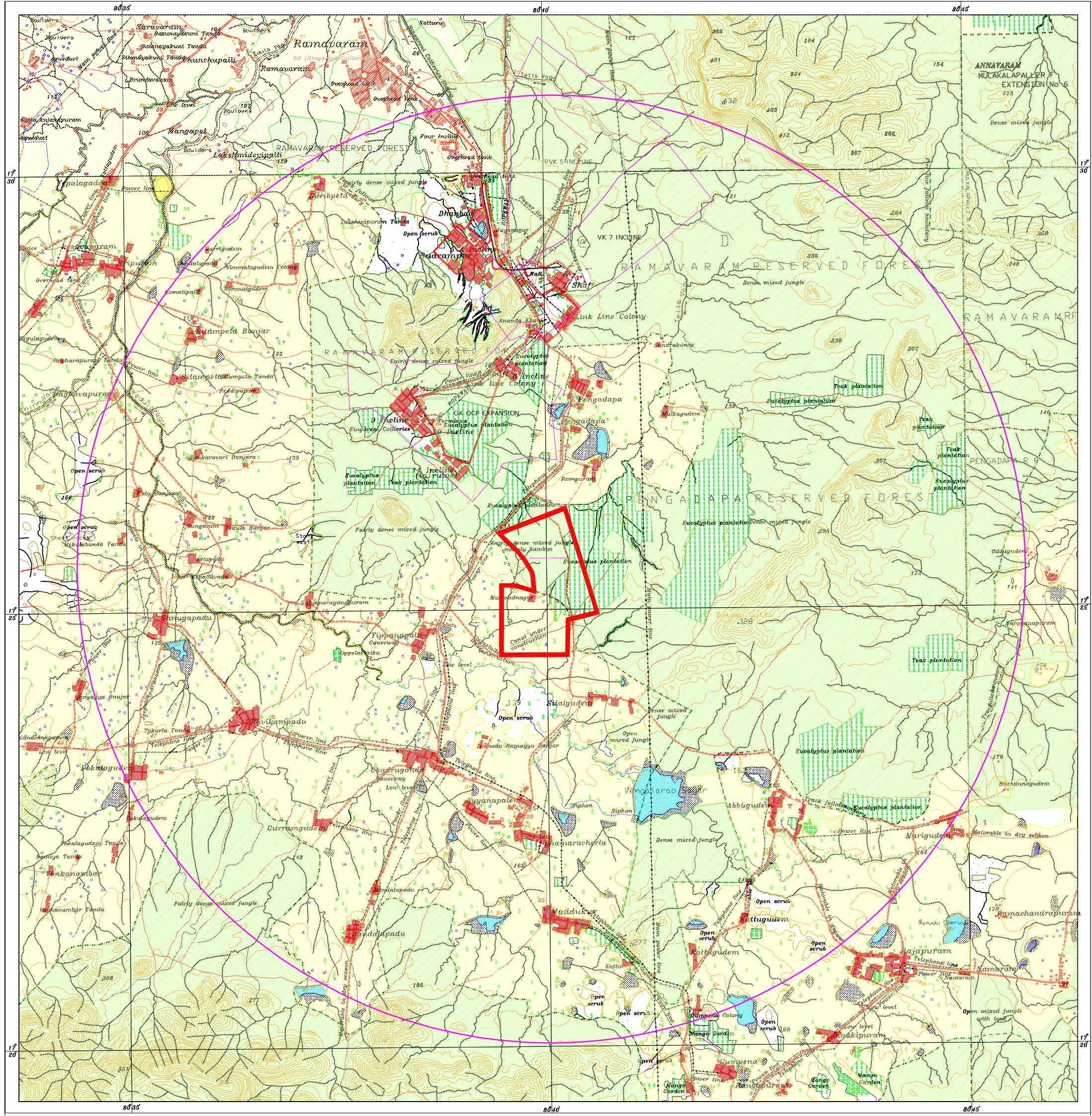
0 300 600 1,200 Meters

Geographic Coordinate System - WGS84 Datum (UTM 48N)



Name	Easting	Northing	Longitude	Latitude
F1	464869.283	1925568.232	80.66927191	17.41565564
F2	464869.011	1925560.517	80.66921947	17.41558590
F3	465486.824	1925713.505	80.67503406	17.41697833
F4	464830.476	1927917.645	80.66881823	17.43689141
F5	463444.667	1927309.007	80.65577740	17.43218133
F6	463514.749	1927318.550	80.65643868	17.43145571
F7	463640.430	1927195.977	80.65762470	17.43034931
F8	463810.986	1927027.184	80.65923303	17.42887635
F9	463956.645	1926853.293	80.66060749	17.42715686
F10	464054.919	1926690.298	80.66153556	17.42578419
F11	464111.020	1926593.683	80.66206542	17.42491274
F12	464131.004	1926530.788	80.66225463	17.42434455
F13	464141.033	1926458.687	80.66235026	17.42369298
F14	464145.513	1926404.581	80.66239335	17.42320399
F15	464154.323	1926296.148	80.66247810	17.42222401
F16	464161.789	1926174.680	80.66255047	17.42112617
F17	464195.297	1926164.050	80.66286609	17.42103062
F18	464284.445	1926129.039	80.66370607	17.42071557
F19	464362.115	1926097.104	80.66443793	17.42042815
F20	464389.851	1926088.168	80.66469923	17.42034721
F21	464420.455	1926076.997	80.66498757	17.42024732
F22	464491.137	1926053.797	80.66565348	17.42003875
F23	464490.287	1926046.751	80.66564559	17.41997504
F24	464482.300	1926025.698	80.66557073	17.41978461
F25	464472.509	1925906.436	80.66548051	17.41870644
F26	464538.469	1925893.967	80.66610177	17.41859478
F31	464584.632	1925514.483	80.66654265	17.41516534
F32	464621.744	1925535.514	80.66689174	17.41539607
F33	464719.209	1925703.358	80.66781138	17.41687471
F34	464743.497	1925711.142	80.66803523	17.41694544
F35	464764.191	1925707.719	80.66823013	17.41691487
F37	464773.035	1925651.291	80.66831432	17.41640491
F38	464867.103	1925660.579	80.66919588	17.41649033

4 beds
→



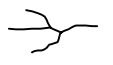
10 km Buffer area



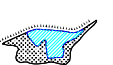
Penagadapa block boundary



Forest area



Drainage



Tank



Topographic contours (a msl)

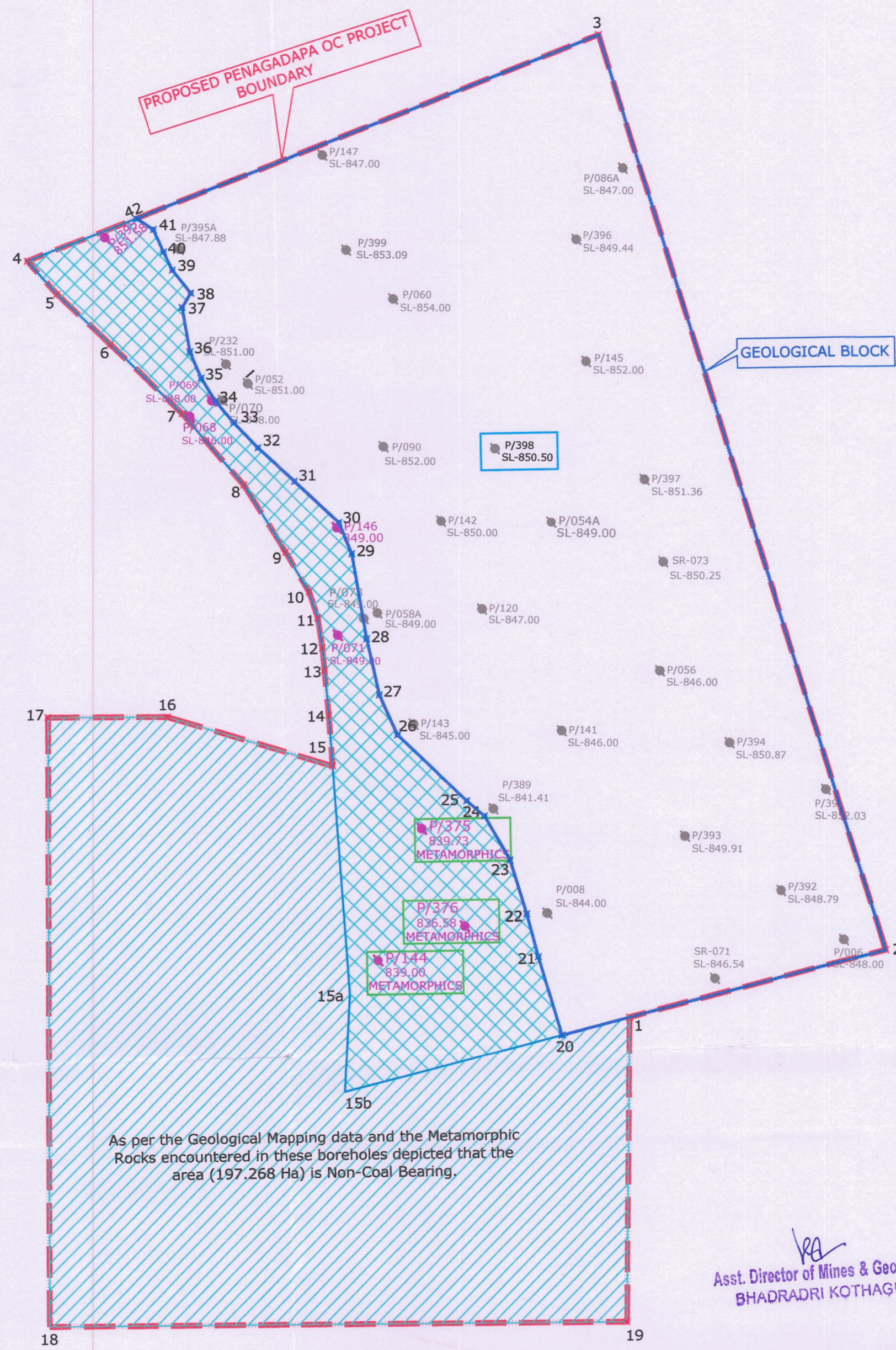


Existing Mines



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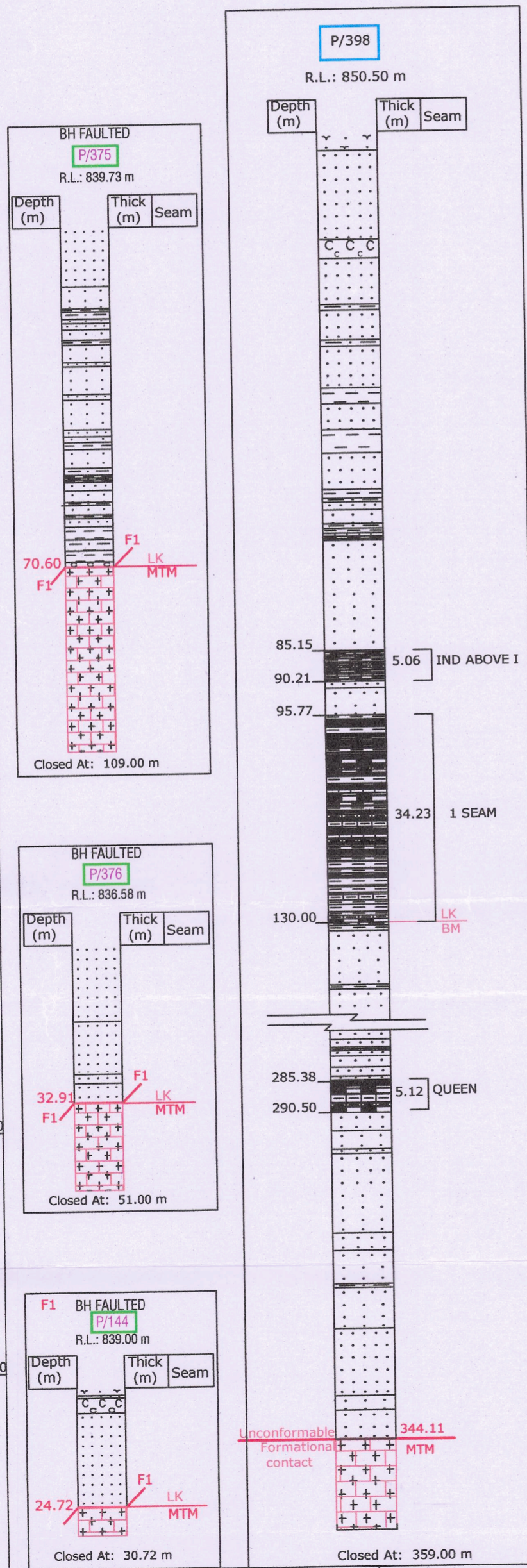
PROPOSED NON-COAL BEARING AREA OUT SIDE OF THE BLOCK .
EXTENT = 145.562 Ha

S.NO	LATITUDE			LONGITUDE		
	DEG	MIN	SEC	DEG	MIN	SEC
15	17	25	16.109	80	39	45.244
16	17	25	20.111	80	39	31.756
17	17	25	20.201	80	39	22.029
18	17	24	32.492	80	39	21.549
19	17	24	32.314	80	40	8.740
1	17	24	56.165	80	40	9.259
15b	17	24	50.575	80	39	45.919
15a	17	24	58.264	80	39	46.417

PROPOSED NON-COAL BEARING AREA WITHIN THE BLOCK .
EXTENT = 51.706 Ha

S.NO	LATITUDE			LONGITUDE		
	DEG	MIN	SEC	DEG	MIN	SEC
4	17	25	55.908	80	39	20.866
5	17	25	53.292	80	39	23.245
6	17	25	49.310	80	39	27.496
7	17	25	43.832	80	39	33.301
8	17	25	38.180	80	39	38.252
9	17	25	32.882	80	39	41.593
10	17	25	29.740	80	39	43.501
11	17	25	27.696	80	39	44.181
12	17	25	25.350	80	39	44.528
13	17	25	23.590	80	39	44.681
14	17	25	20.060	80	39	44.985
15	17	25	16.109	80	39	45.244
15a	17	24	58.264	80	39	46.417
15b	17	24	50.575	80	39	45.919
20	17	24	54.831	80	40	3.690
21	17	25	0.993	80	40	1.839
22	17	25	4.358	80	40	0.938
23	17	25	8.568	80	39	59.637
24	17	25	12.045	80	39	57.604
25	17	25	13.246	80	39	56.151
26	17	25	18.469	80	39	50.561
27	17	25	21.608	80	39	49.127
28	17	25	26.009	80	39	48.146
29	17	25	32.686	80	39	47.028
30	17	25	35.125	80	39	46.036
31	17	25	38.410	80	39	42.426
32	17	25	41.071	80	39	39.419
33	17	25	43.064	80	39	37.491
34	17	25	44.765	80	39	36.025
35	17	25	46.581	80	39	34.883
36	17	25	48.644	80	39	34.000
37	17	25	52.127	80	39	33.411
38	17	25	53.237	80	39	34.136
39	17	25	55.058	80	39	32.672
40	17	25	56.486	80	39	31.958
41	17	25	58.250	80	39	31.145
42	17	25	59.126	80	39	29.738

Director of Mines & Geology
Department of Mines & Geology
Govt. of Telangana, Hyderabad



As per the Geological Mapping data and the Metamorphic Rocks encountered in these boreholes depicted that the area (197.268 Ha) is Non-Coal Bearing.

Asst. Director of Mines & Geology (FAC)
BHADRADRI KOTHAGUDEM.

INDEX:-

MINE/BLOCK	EXTENT IN "Ha"	REMARKS
NON-COAL BEARING AREA	197.268	
WITHIN THE BLOCK AREA	51.706	
OUT SIDE OF THE BLOCK AREA	145.562	
PROPOSED OC PROJECT BOUNDARY	415.768	
PENAGADAPA GEOLOGICAL BOLCK	218.500	

NOTE : ALL THE GEO-REFERENCE(CARDINAL) CO-ORDINATES MENTIONED IN THE PLAN ARE IN WGS-84 PLATFORM

LEGEND	
SYMBOL	DESCRIPTION
	BOREHOLE NUMBER WITH SURFACE RL (COAL BEARING AREA)
	BOREHOLE NUMBER WITH SURFACE RL (NON-COAL BEARING AREA)

CRP/SUR/LOI/PENAGADAPA OC/008, dt 18.11.2020

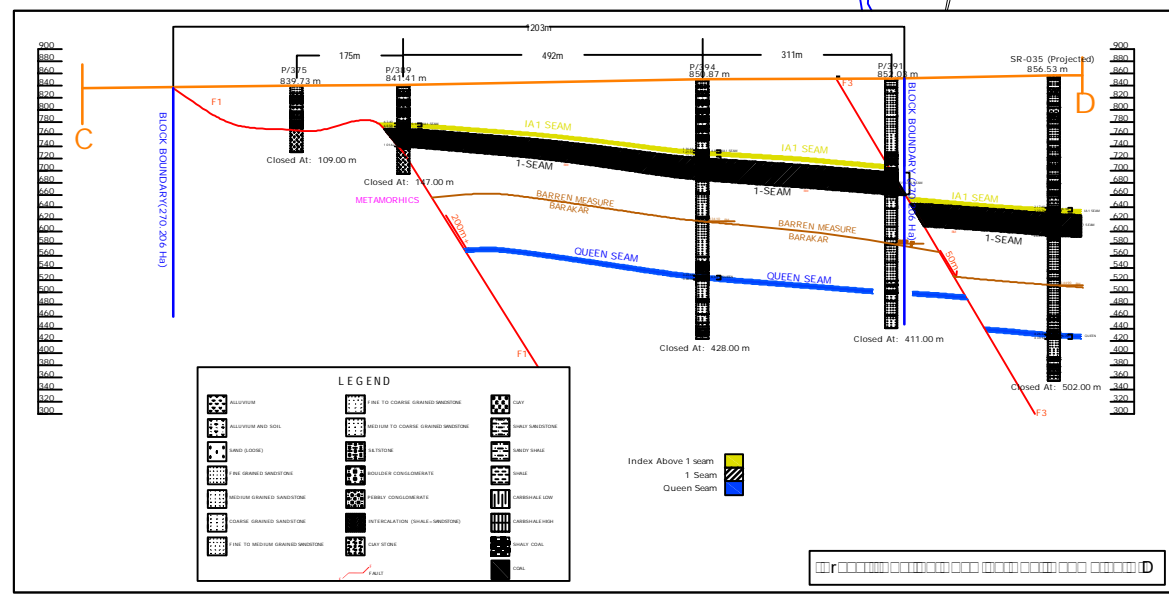
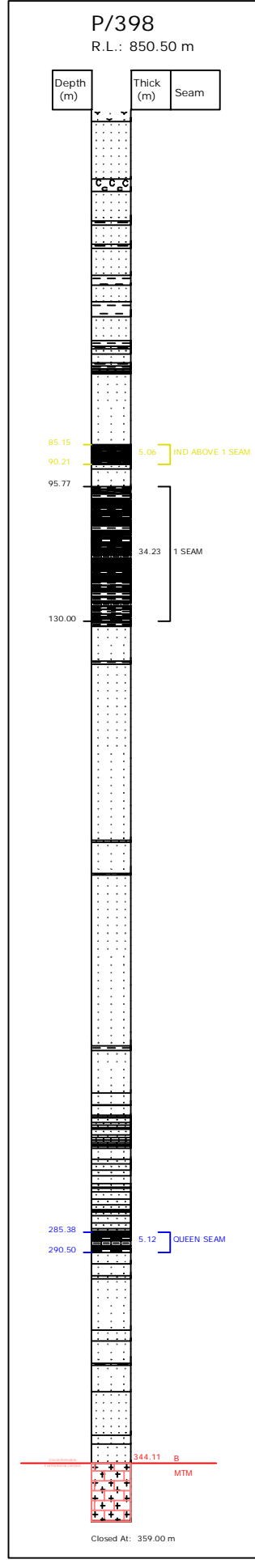
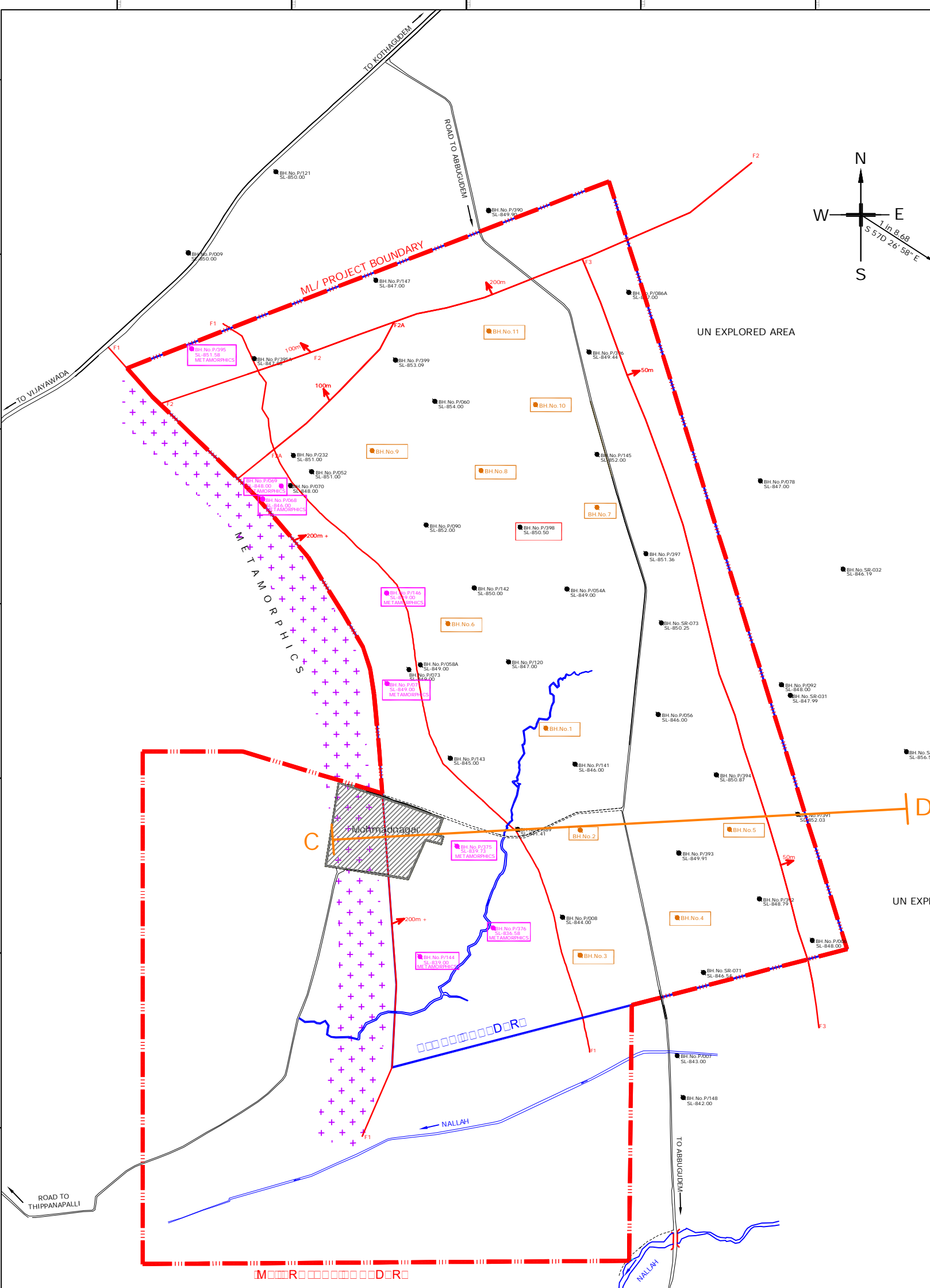
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(A GOVERNMENT COMPANY)

KOTHAGUDEM

PLAN SHOWING THE NON-COAL BEARING AREA OF 197.268 Ha WITH GEO REFERENCE(WGS-84) CO-ORDINATES REQUIRED FOR PROPOSED "PENAGADAPA OC PROJECT" LOCATED AT MAHAMMED NAGAR VILLAGE, PENAGADAPA IN CHANDRUGONDA MANDAL OF BHADRADRI DISTRICT, TELANGANA STATE

R.F = 1:10000

CHIEF OF SURVEY GM (PP) GM (EXPL) GM (ESTATES)



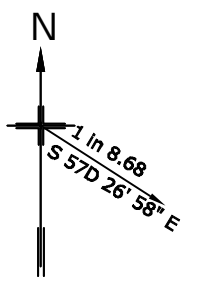
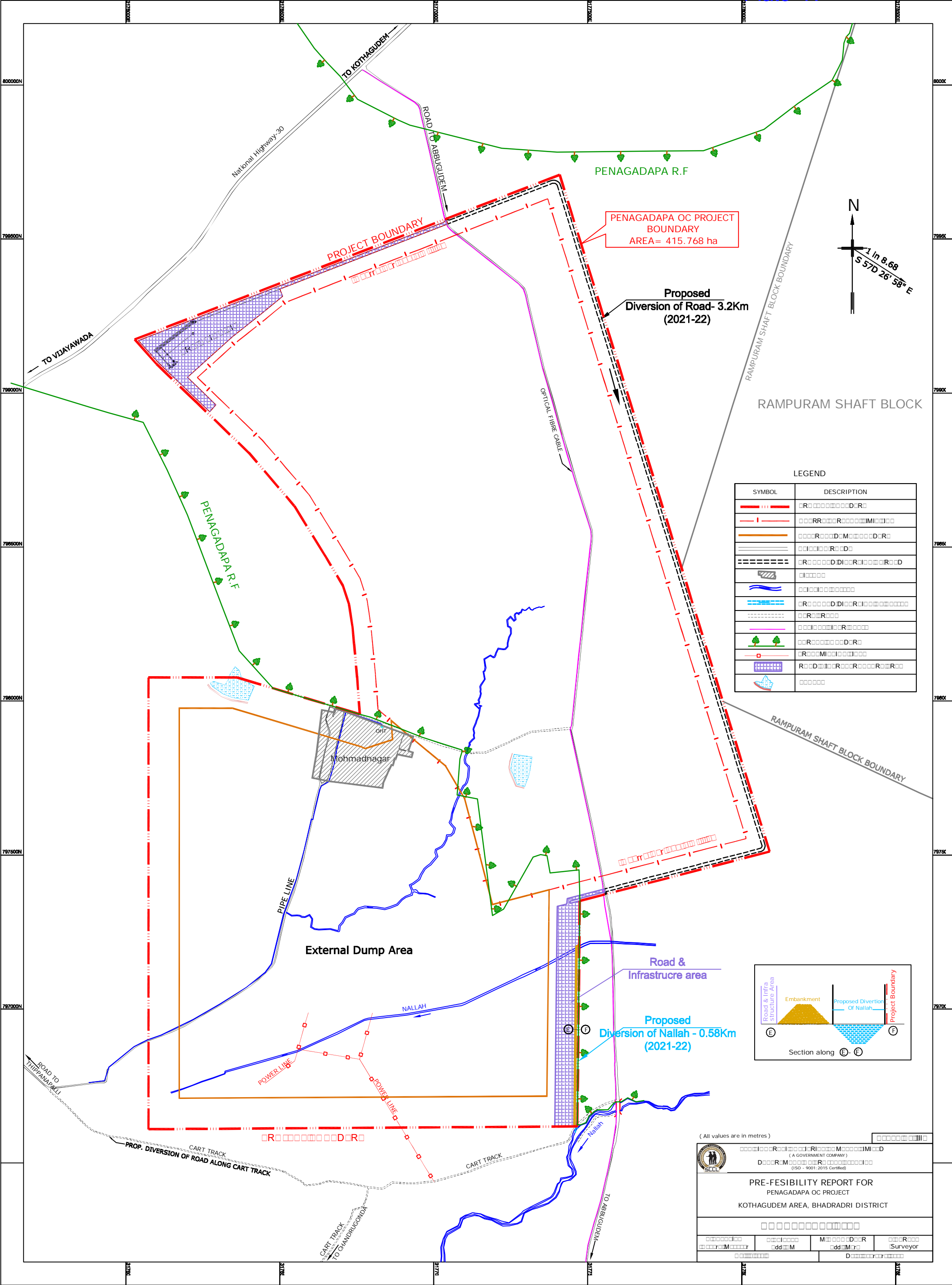
Symbol	Description
●	BH No. P/142
●	BH No. P/146
●	BH No. 3
●	SL-850.00
—	1-SEAM
—	QUEEN SEAM
—	BARREN MEASURE BARAKAR
—	1ND ABOVE 1 SEAM
—	MTM
—	ROAD
—	NALLAH
—	ML PROJECT BOUNDARY
—	UN EXPLORED AREA
—	METAMORPHICS
—	ROAD TO THIPPANAPALLI
—	ROAD TO VUJAVADA
—	ROAD TO KOTHAGUDEM
—	ROAD TO ABBRUGUDEM

(All values are in metres)

PRE-FESIBILITY REPORT FOR
 PENAGADAPA OC PROJECT
 KOTHAGUDEM AREA, BHADRADRI DISTRICT

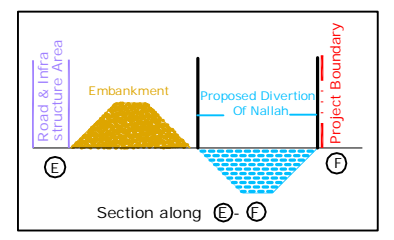
Surveyor:

 Date:



LEGEND

SYMBOL	DESCRIPTION
[Red dashed line]	Proposed Diversion of Road
[Blue line]	Proposed Diversion of Nallah
[Orange outline]	External Dump Area
[Blue shaded area]	Road & Infrastrucre area
[Green line]	Penagadapa R.F.
[Grey line]	Rampuram Shaft Block Boundary
[Hatched area]	Mohmadnagar
[Blue line with dots]	Optical Fibre Cable
[Blue line with dots]	Pipe Line
[Red line with squares]	Power Line
[Dashed line]	Cart Track
[Red dashed line]	Project Boundary
[Green line]	Nallah

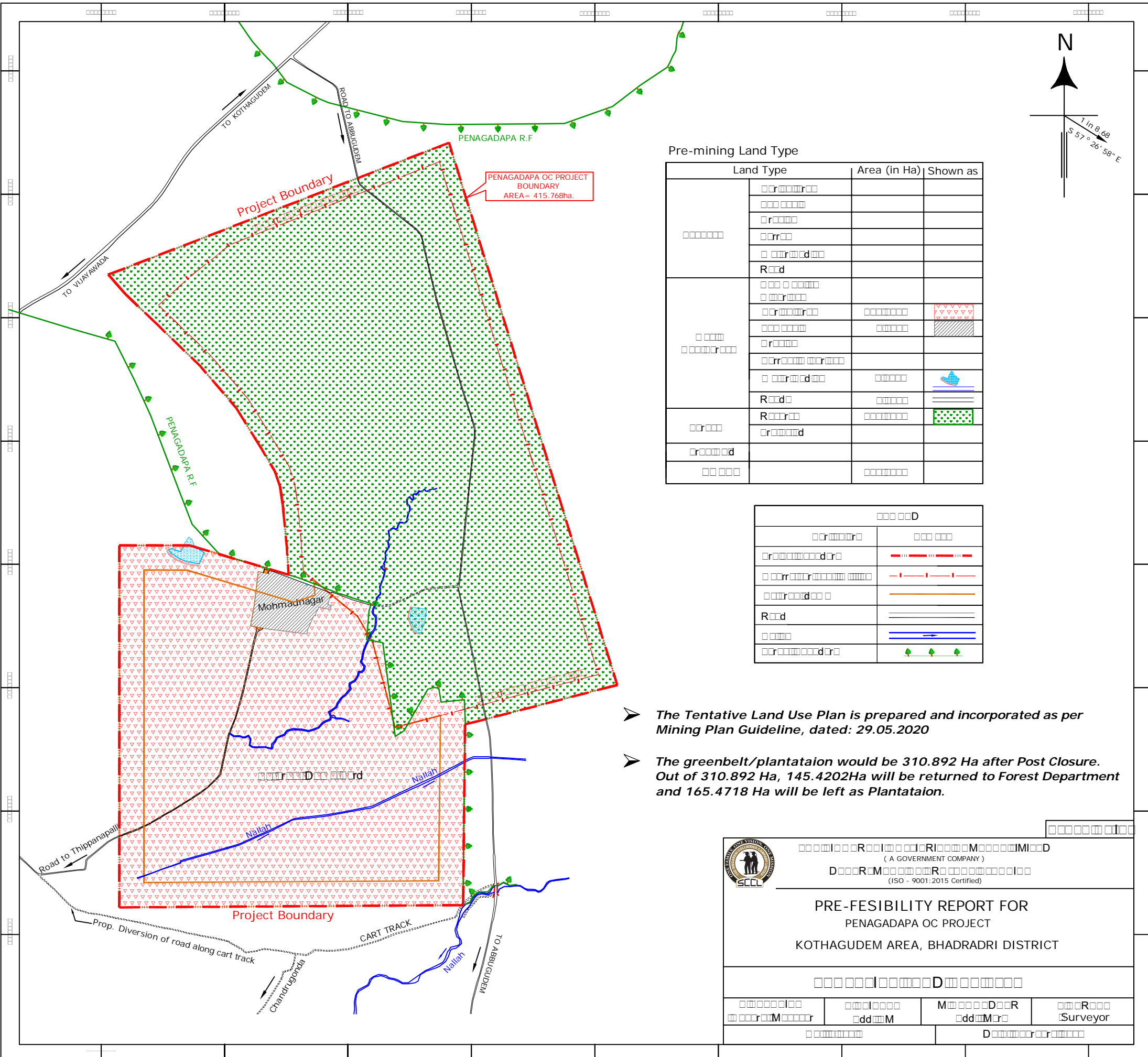


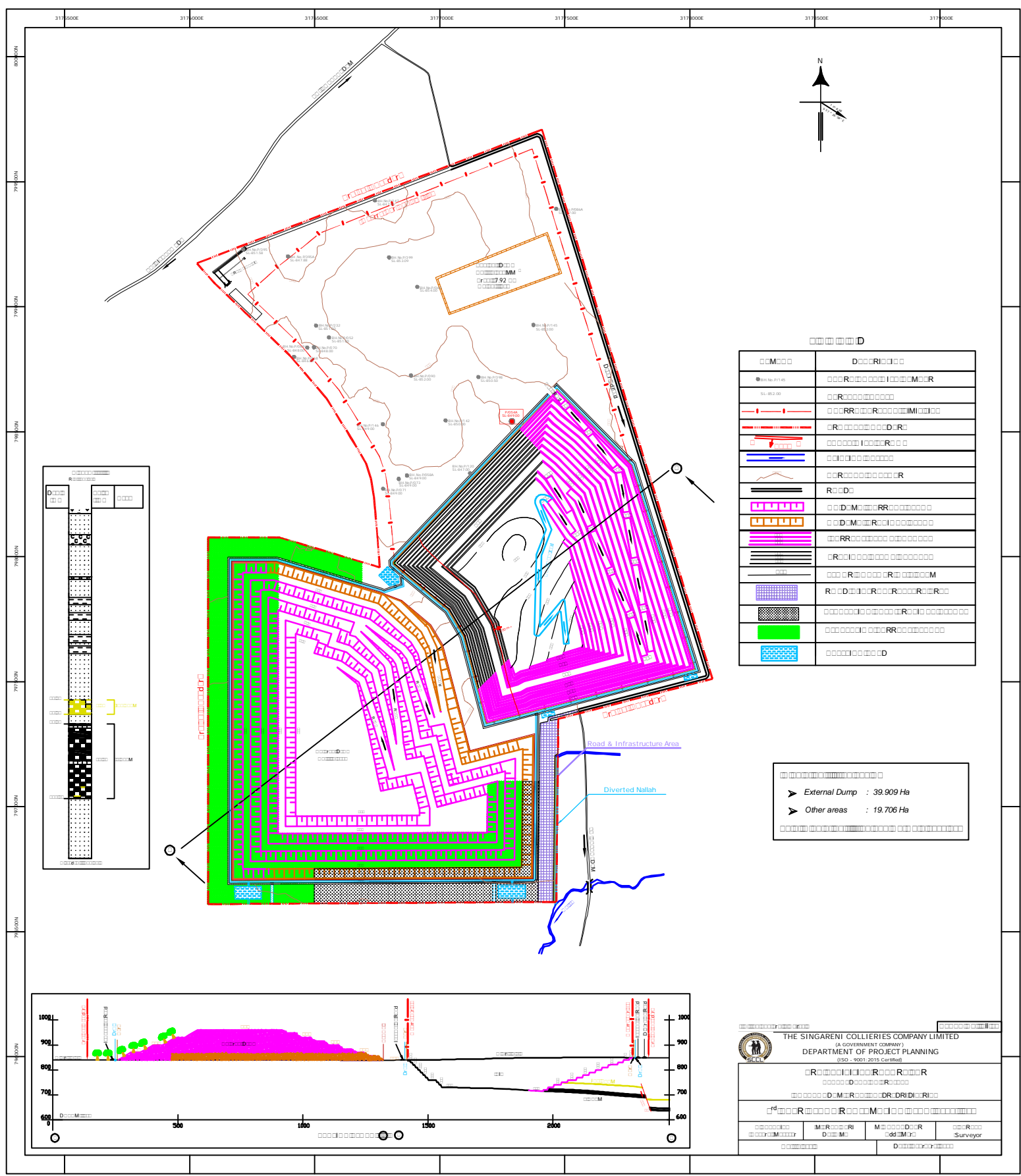
(All values are in metres)

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**PRE-FESIBILITY REPORT FOR
PENAGADAPA OC PROJECT
KOTHAGUDEM AREA, BHADRADRI DISTRICT**

Surveyor: [Name]



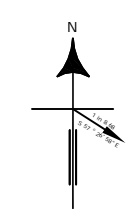
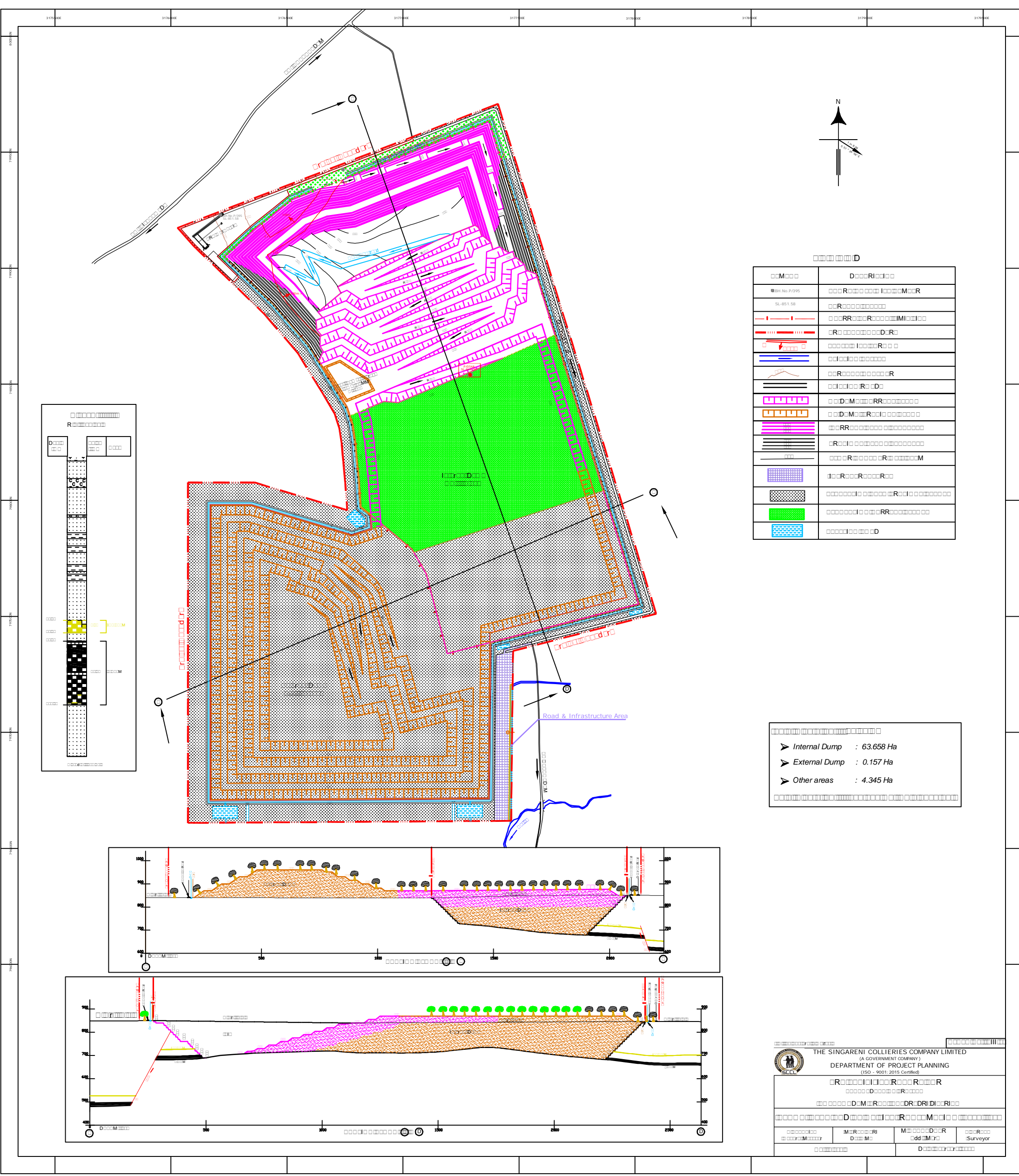


D	
Symbol 1	D
Symbol 2	R
Symbol 3	M
Symbol 4	R
Symbol 5	R
Symbol 6	R
Symbol 7	R
Symbol 8	R
Symbol 9	R
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Symbol 11	R
Symbol 12	R
Symbol 13	R
Symbol 14	R
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Symbol 99	R
Symbol 100	R

External Dump : 39.909 Ha
 Other areas : 19.706 Ha

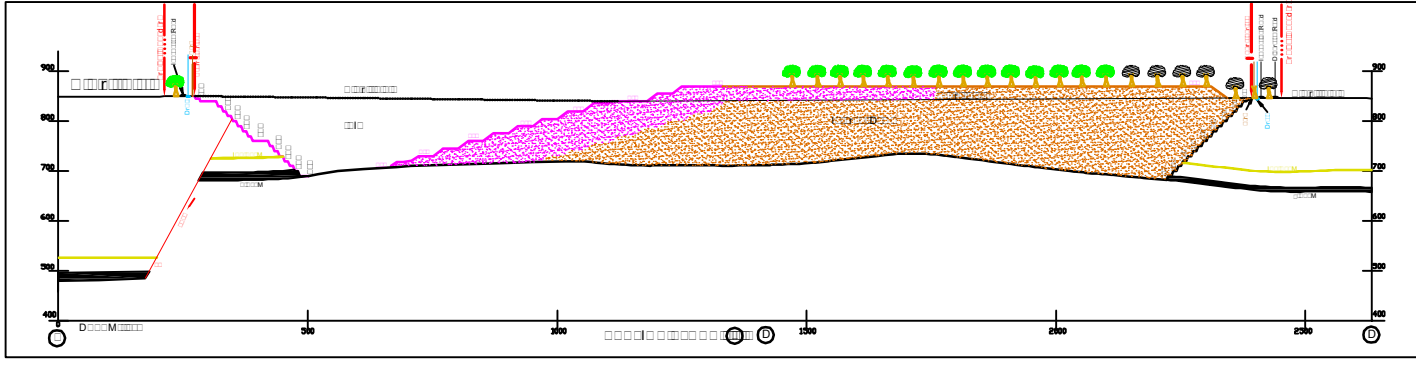
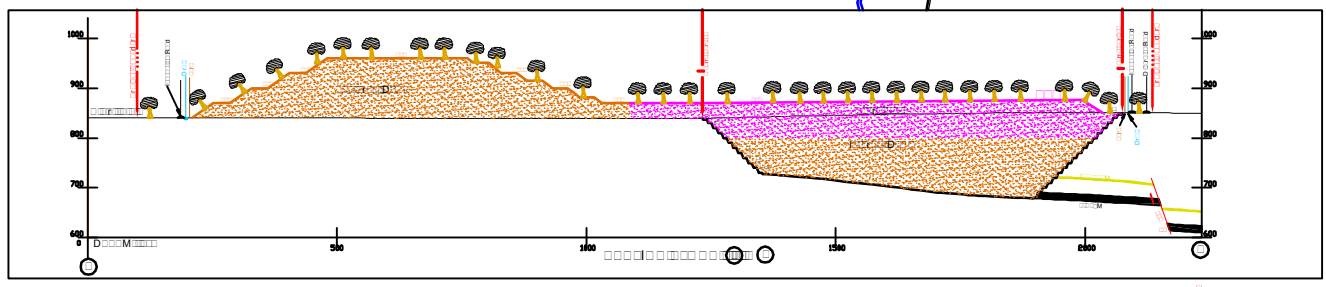
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Surveyor



Symbol	Description
□□□□□□□□	Dump Area
□□□□□□□□	Road & Infrastructure Area
□□□□□□□□	Water Body
□□□□□□□□	Boundary
□□□□□□□□	Internal Dump
□□□□□□□□	External Dump
□□□□□□□□	Other areas
□□□□□□□□	Road
□□□□□□□□	Infrastructure
□□□□□□□□	Water Body
□□□□□□□□	Boundary
□□□□□□□□	Internal Dump
□□□□□□□□	External Dump
□□□□□□□□	Other areas
□□□□□□□□	Road
□□□□□□□□	Infrastructure
□□□□□□□□	Water Body
□□□□□□□□	Boundary

Internal Dump	: 63.658 Ha
External Dump	: 0.157 Ha
Other areas	: 4.345 Ha



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Project Engineer
 Project Manager
 Surveyor

