

## SITE INSPECTION REPORT OF DFO ANGUL DIVISION

1	Name of the Project	Seeking prior approval of Central Government under section 2 of the forest conservation Act, 1980 for diversion of 125.24 Ha. Forest Land of Subhadra Opencast Coal mining project of Subhadra Area of M/s Mahanadi Coalfields Limited																									
2	Name of the district/division	Angul/ Angul (T) Division																									
3	Date of Inspection	01/ 11 /2022																									
4	Name & designation of the Inspecting Officer	Vivek Kumar, IFS, Divisional Forest Officer Angul.																									
5	Name & designation of the other Officers who attended the inspection including representatives of the user agency.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Forest Deptt.</th><th style="width: 50%;">User Agency</th></tr> </thead> <tbody> <tr> <td>Nilamani Dehury, Forest Range Officer, Kaniha Range.</td><td>Sri RV Ringe, G.M, Subhadra Area, MCL, Angul</td></tr> <tr> <td>Nilamani Dehury, Forest Range Officer, I/C Chhendipada Range</td><td>Sri Sital Kumar Sahoo, Project Officer, Subhadra OCP , MCL</td></tr> <tr> <td>Sukanti Dei, Range Officer Talcher, Range</td><td>Sri P.K Maharaj, Staff Officer, Subhadra OCP , MCL</td></tr> <tr> <td>Sukanti Dei, Range Officer, I/C Angul, Range</td><td>Sri L.N. Mishra, Office Superintendent, Subhadra OCP,MCL.</td></tr> </tbody> </table>	Forest Deptt.	User Agency	Nilamani Dehury, Forest Range Officer, Kaniha Range.	Sri RV Ringe, G.M, Subhadra Area, MCL, Angul	Nilamani Dehury, Forest Range Officer, I/C Chhendipada Range	Sri Sital Kumar Sahoo, Project Officer, Subhadra OCP , MCL	Sukanti Dei, Range Officer Talcher, Range	Sri P.K Maharaj, Staff Officer, Subhadra OCP , MCL	Sukanti Dei, Range Officer, I/C Angul, Range	Sri L.N. Mishra, Office Superintendent, Subhadra OCP,MCL.															
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6	Legal status of forest land with area proposed for diversion	<table border="1" style="width: 100%; border-collapse: collapse;"> <tbody> <tr> <td style="width: 70%;">Reserve Forest</td><td style="text-align: right;">0.75</td></tr> <tr> <td>Revenue Forest</td><td style="text-align: right;">47.59</td></tr> <tr> <td>DLC Forest</td><td style="text-align: right;">76.9</td></tr> <tr> <td style="text-align: right;"><b>Total</b></td><td style="text-align: right;"><b>125.24</b></td></tr> </tbody> </table>	Reserve Forest	0.75	Revenue Forest	47.59	DLC Forest	76.9	<b>Total</b>	<b>125.24</b>																	
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7	If area required for diversion has been demarcated on the ground.	Yes (Photo enclosed)																									
8	Item-wise breakup of the forest land proposed for diversion.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Requirement for the purpose</th><th style="width: 10%;">Reserve Forest</th><th style="width: 10%;">Revenue Forest</th><th style="width: 10%;">DLC Forest</th><th style="width: 10%;">Total</th></tr> </thead> <tbody> <tr> <td>Mining Excavation</td><td style="text-align: right;">0.71</td><td style="text-align: right;">33.82</td><td style="text-align: right;">55.0</td><td style="text-align: right;">89.53</td></tr> <tr> <td>Safety Zone</td><td style="text-align: right;">0.04</td><td style="text-align: right;">0.77</td><td style="text-align: right;">0.66</td><td style="text-align: right;">1.47</td></tr> <tr> <td>Infrastructure</td><td style="text-align: right;">0</td><td style="text-align: right;">13.0</td><td style="text-align: right;">21.24</td><td style="text-align: right;">34.24</td></tr> <tr> <td><b>TOTAL</b></td><td style="text-align: right;"><b>0.75</b></td><td style="text-align: right;"><b>47.59</b></td><td style="text-align: right;"><b>76.9</b></td><td style="text-align: right;"><b>125.24</b></td></tr> </tbody> </table>	Requirement for the purpose	Reserve Forest	Revenue Forest	DLC Forest	Total	Mining Excavation	0.71	33.82	55.0	89.53	Safety Zone	0.04	0.77	0.66	1.47	Infrastructure	0	13.0	21.24	34.24	<b>TOTAL</b>	<b>0.75</b>	<b>47.59</b>	<b>76.9</b>	<b>125.24</b>
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9	Condition of vegetation and type of forest in the applied area.	Tropical Moist Deciduous Forest. Mostly Sal forest, Kaju, Mai, Neem Mango, Teak etc.														
10	Position of Wildlife in general.	<div>Elephant movement is observed near and around the project area as shown in enclosure -2 details and other species are as follows.</div> <table><tr><th>Fauna</th><th>Birds</th></tr><tr><td>Asian Elephant (<i>Elephas maximus</i>)</td><td>Indian peafowl (<i>Pavo cristatus</i>)</td></tr><tr><td>Barking Deer (<i>Muntiacus</i>)</td><td>Blue jay (<i>Cyanocitta cristata</i>)</td></tr><tr><td>Indian Hare (<i>Leporidae</i>)</td><td>Egretta (<i>novaeollandiae</i>)</td></tr><tr><td>Langur (<i>Semnopithecus</i>)</td><td>Kingfisher (<i>Alcedinidae</i>)</td></tr><tr><td>Jackal (<i>Canis aureus</i>)</td><td>Drongo (<i>Dicruridae</i>)</td></tr><tr><td>Wild Boar (<i>Sus scrofa</i>)</td><td></td></tr></table>	Fauna	Birds	Asian Elephant ( <i>Elephas maximus</i> )	Indian peafowl ( <i>Pavo cristatus</i> )	Barking Deer ( <i>Muntiacus</i> )	Blue jay ( <i>Cyanocitta cristata</i> )	Indian Hare ( <i>Leporidae</i> )	Egretta ( <i>novaeollandiae</i> )	Langur ( <i>Semnopithecus</i> )	Kingfisher ( <i>Alcedinidae</i> )	Jackal ( <i>Canis aureus</i> )	Drongo ( <i>Dicruridae</i> )	Wild Boar ( <i>Sus scrofa</i> )	
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11	Whether the applied area is involved with any eco-sensitive area/ national park/ sanctuary.	No														
12	No. of trees to be felled and its impact on the systems.	<div>48613 nos of trees (Sample plot enumerated) in Revenue/ Reserve &amp; DLC Forest.</div> <div>Enumeration for revenue land of 986.61 Ha. to be enumerated. As applied by the User Agency, 986.61 ha. of non-forest area is involved in the project. Felling of trees in trees outside forest will adversely impact air and hydrology in the area. To mitigate the impact of felling of trees outside forest, ten times numbers of tree is recommended to be planted at the time of felling of trees as Angul-Talcher area is one of the 43 critically polluted areas identified by CPCB.</div>														
13	Details of broken up area and reclamation done if any.	Not Found														
14	Position of displacement of people and adequacy of rehabilitation, if any.	No people displacement is required from forest area proposed to diverted.														
15	Position of rare and endangered species available of importance of area from eco-social point of view.	Area is important for the movement of wild elephant. Angul, Talcher, Chhendipada and Kaniha Ranges of the Angul Division have witnessed increased man-elephant conflict due to increased mining activities.														
16	Non forest land used in the project and non forest land selected for compensatory Afforestation is included in the D.LC. Report or not.	<div>i.) Non-forest land used in the project has not been included in the DLC report.</div> <div>ii.) Non-Forest Land selected for compensatory afforestation is not included in the DLC Report.</div>														



		Area in Ha.	Name of Village	Khata No.	Plot No.	Amount
		13.228	Kanja (Puratan Patita)	2/2 & 1	157, 1656 (P) & 1648/1 (P)	11841173
		34.693	Jamugadia (Puratan Patita)	1 & 2/2	1107(P), 1117 (P) & 1089 (P)	17887833
		19.126	Nukhuripada (Puratan Patita)	1	8(P)	33743594
		40.255	Baghuapatt (Chota Jungle)	1	251 (P), 283 (P), 284 (P) & 298 (P)	34944699
		43.593	Rodasingha (Pahad)	1 (AJA)	965	7282668
		<b>150.895</b>				<b>105699967 Or 105700000</b>
17	Suitability of the identified non forest area for compensatory Afforestation.	<p>Selected CA land is suitable for the plantation.</p> <p>Suitability certificate has been furnished in the CA Scheme.</p>				
18	Violation of forest (Conservation) Act 1980 if any and action taken thereof.	No violation is observed during the visit				

  
 Divisional Forest Officer  
 Angul Division.





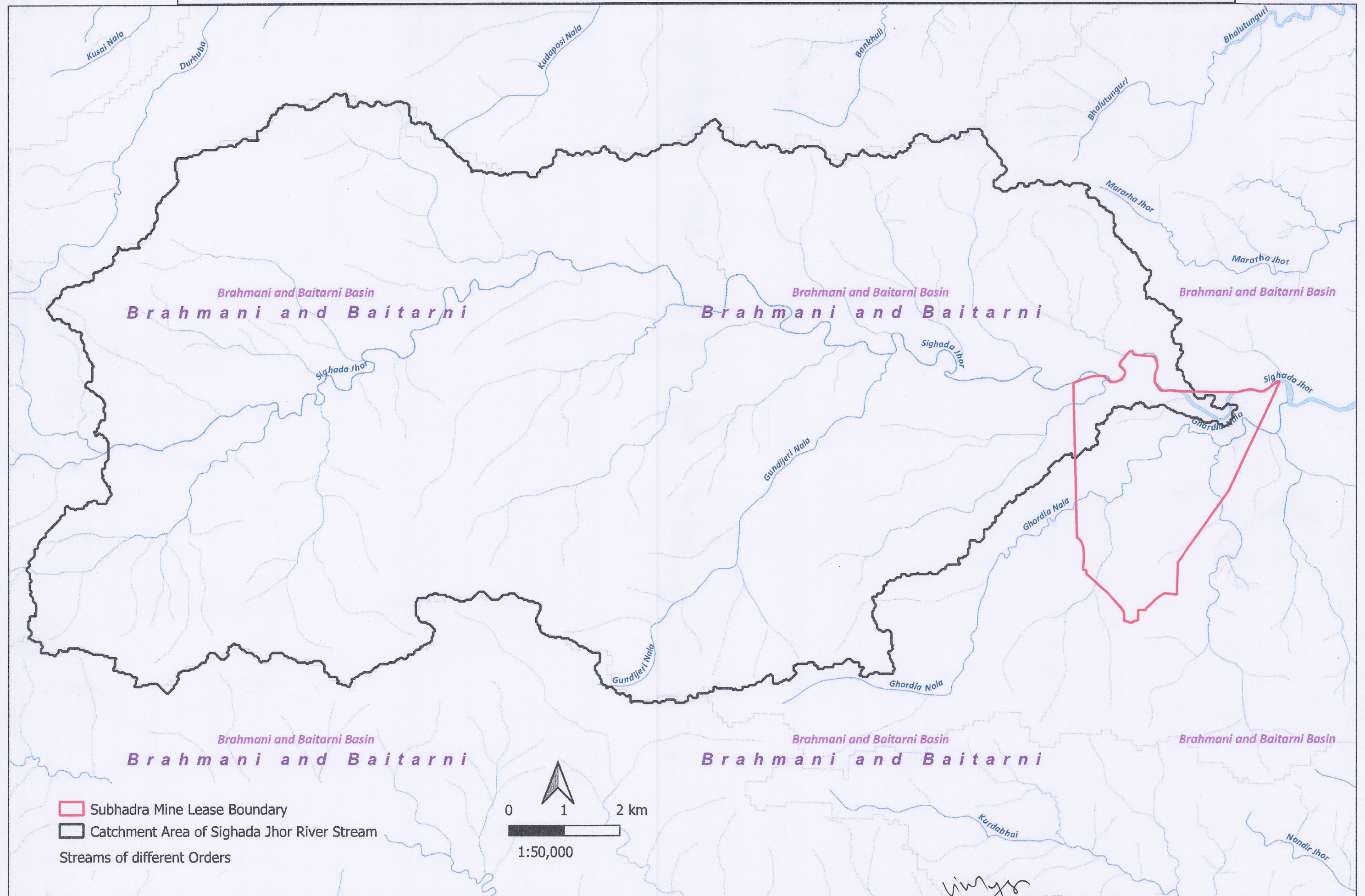




*Amr*  
Divisional Forest Officer  
Angul, Division



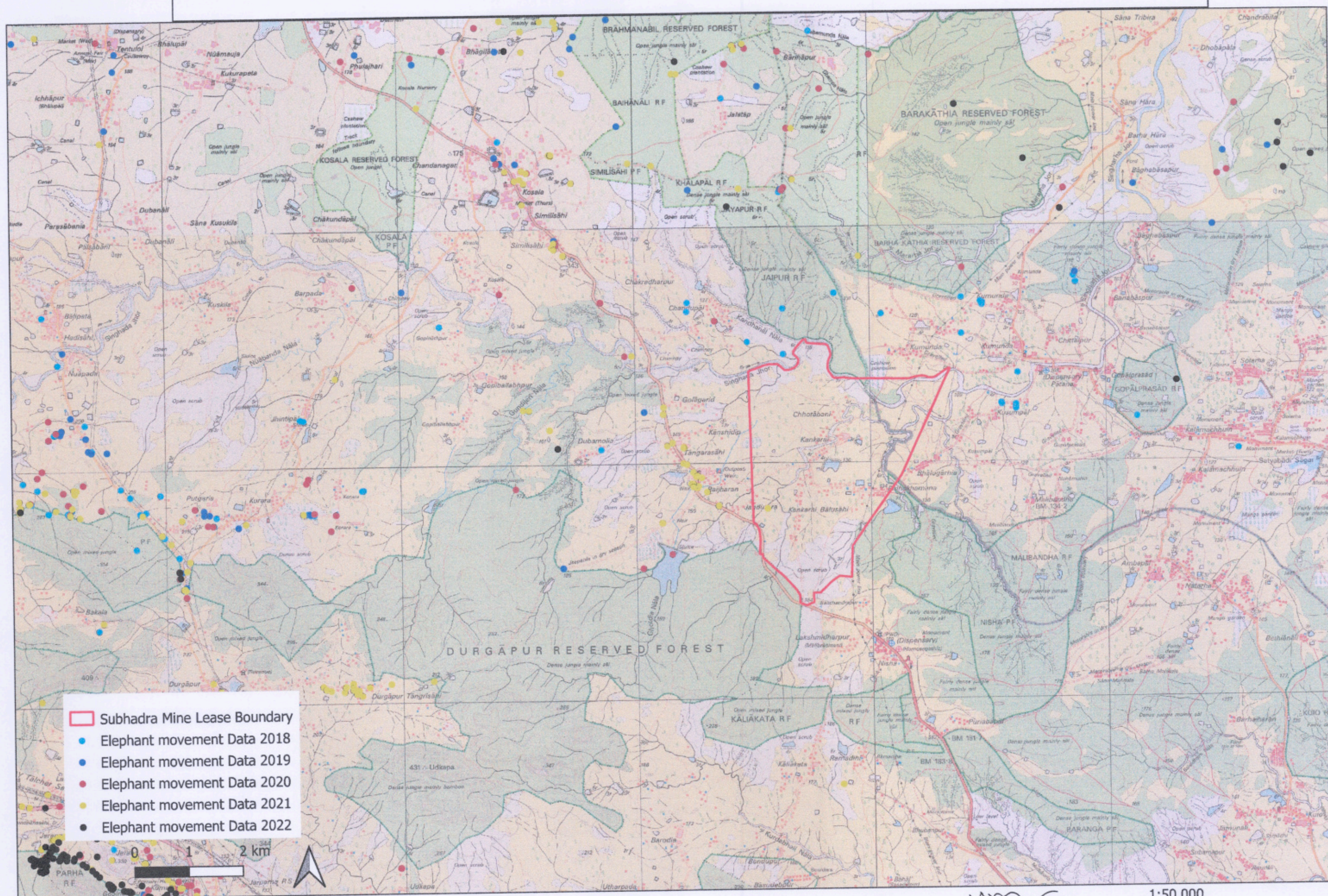
Catchment Map of the Sighada Jhor stram where it passes throgh Project Site.  
Catchment Area = 17286 Ha.



*Wing*  
Divisional Forest Officer  
Angul Division



Elephant Movement near and around project site



Divisional Forest Officer  
Angul, Division

1:50,000

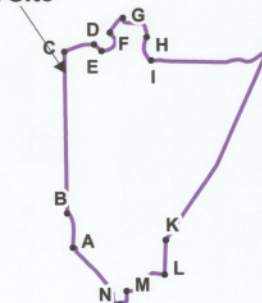




## MAP SHOWING DISTANCE FROM NEAREST PROTECTED AREAS

Toposheet / OSM No.  
F45M16, F45N4, F45S13 & F45T1

### Project Site



### Legend

- Project Site
- Satkosia Tiger Reserve
- Eco-Sensitive Zone

### Project:

#### Subhadra Open Cast Mine

At Village Gopal Prasad, Kumuda, Nisha, Kankarei, Rajgharan, Nisha P.S Angul, Tehsil Tachler Sadar and Chhenipada, District- Angul, State- Odisha

### Project Proponent:

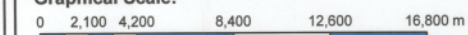
#### M/s Mahanadi Coalfields Limited

### Environment Consultant:

#### Vardan Environet

QCI-NABET Accredited Environment Consultant  
Certificate No. NABET/EIA/2023/SA0158

### Graphical Scale:



### Prepared By:

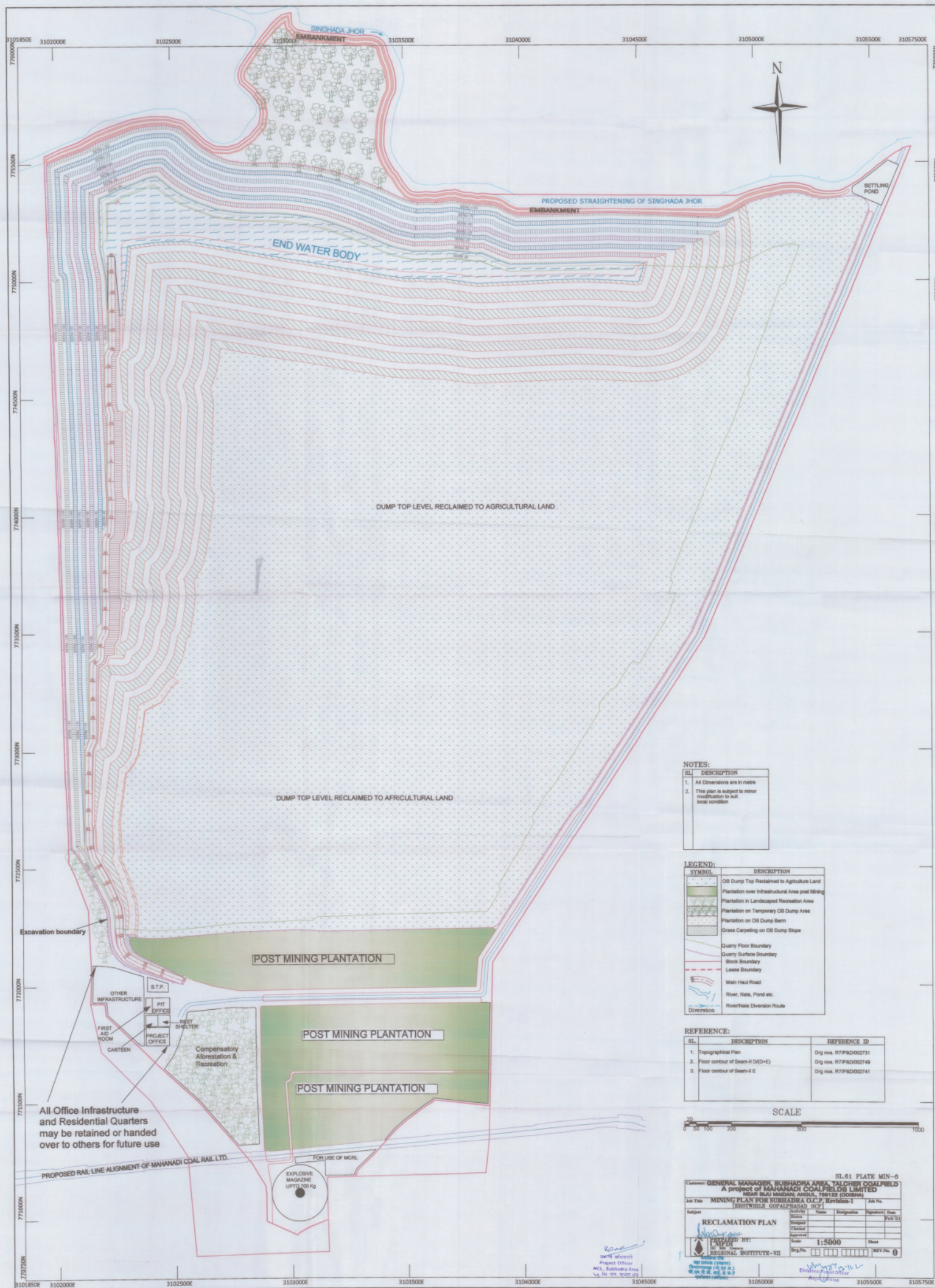
Mr. Ankit Singh

### Approved By:

Mr. Ankur Agarwal

*(Signature)*  
Project Officer  
Vardan Environet  
P.O. Box No. 100, Angul, Odisha





**NOTES:**

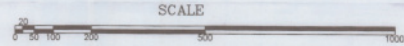
SL	DESCRIPTION
1.	All Dimensions are in metre
2.	This plan is subject to minor modification to suit local condition

**LEGEND:**

SYMBOL	DESCRIPTION
[Pattern]	OB Dump Top Reclaimed to Agriculture Land
[Pattern]	Plantation over Infrastructural Area post Mining
[Pattern]	Plantation in Landscaped Recreation Area
[Pattern]	Plantation on Temporary OB Dump Area
[Pattern]	Plantation on OB Dump Bank
[Pattern]	Grass Carpeting on OB Dump Slope
[Pattern]	Quarry Floor Boundary
[Pattern]	Quarry Surface Boundary
[Pattern]	Block Boundary
[Pattern]	Lease Boundary
[Pattern]	Main Road
[Pattern]	River, Nala, Pond etc.
[Pattern]	River/Nala Diversion Route

**REFERENCE:**

SL	DESCRIPTION	REFERENCE ID
1.	Topographical Plan	Drp nos. R7/P&D/002731
2.	Floor contour of Seam-II (D+E)	Drp nos. R7/P&D/002749
3.	Floor contour of Seam-II E	Drp nos. R7/P&D/002741



**SL-61 PLATE MIN-6**

Customer: GENERAL MANAGER, SUBHADRA AREA, TALCHER COALFIELD  
A project of MAHABADI COALFIELDS LIMITED  
NEAR BLAU MANDAL, ANAGAL, TALUKA (COCHIN)

Job Title: MINING PLAN FOR SUBHADRA D.C.P. Revision-1  
Subject: RECLAMATION PLAN

APPROVED BY: [Signature]  
PROJECT OFFICER  
MCL, Subhadra Area  
Vd. No. 101/102/103

Scale: 1:5000

Sheet: [Blank]

REV. No. 0