

**REPORT AND DRAWINGS
OF
DGPS SURVEY
FOR**

**PREPARATION OF GEO REFERENCED CADASTRAL PLAN IN
RESPECT OF THE PROPOSED MINING LEASE OF PARASI GOLD
DEPOSIT OVER AN AREA OF 75.273 HA**

AND

**PREPARATION OF GEO-REFERENCED DIGITAL PLAN IN SHAPE
LAYER FOR ACCURATE DELINEATION OF FOREST LAND OF
11.959 HA FALLS WITHIN THE BOUNDARY OF PROPOSED
MINING LEASE OF PARASI GOLD DEPOSIT**



Submitted By –



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Jharkhand State**

Prepared By:



GEMS PROJECTS PVT.LTD.

(Registered DGPS Survey Company from Govt of Jharkhand & Govt of Odisha)

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 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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PREFACE

As per the requirements prescribed in Circular no.02/2010 dated 06.04.2010 issued by Indian Bureau of Mines, Ministry of Mines, Government of India, DGPS Survey of the area held/granted under mining leases/Prospecting license became mandatory to establish Boundary Pillar of the lease/license area.

As per the Circular no 11-9/98 – FC dated 08.07.2011 of the Ministry of Environment and Forest, Government of India, Project Proponent seeking Forest Clearance under section 2 of Forest Conservation Act, 1980 for diversion forest land for non-forest purposes has to carry out DGPS Survey of the Forest Land proposed to be diverted for non-forest purpose and to prepare a geo referenced digital map of the Forest area so applied.

To comply with the aforesaid requirements, **M/s Rungta Mines Ltd, Rungta House, Chaibasa, Jharkhand**, issued work order to **M/s Gems Projects Pvt. Ltd.** to carry out DGPS Survey for aforesaid purposes in respect of the Proposed Mining Lease boundary and boundary of Forest Land falling within the proposed Mining Lease area of Parasi Gold Deposit for which the company has been granted Letter of Intent (LOI) for the grant of said Mining Lease.

In this endeavor GLOBAL NAVIGATION SATELLITE SYSTEM (DGPS) Instruments of SOKKIA, USA make was used for survey. The DGPS Survey of the boundary pillars was done with reference to the co-ordinates of the GTS points as supplied by Survey of India, Ranchi to establish the correct geo-location of the existing deposit. The survey of the Forest Land falls within the boundary of the Proposed Mining Lease has been carried out by RTK method in reference with the established ground control Base Stations within the proposed Lease Area.

We hope, this report and the map prepared by us shall be of immense use for the mine owners and the concerned officials of the state as well as Central Government.



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SOFT COPY

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PROJECT AT A GLANCE

1. INTRODUCTION:-

The lessee M/s Rungta Mines Limited is registered and incorporated as a Public Limited Company under The Companies Act, 1956. The registered office of the company is at 8A, Express Tower, 42A, Shakspeare Sarani, Kolkata-17.

M/s Rungta Mines Limited was declared "Preferred Bidder" as per Rule 9.4(b)(iii) of Mineral (Auction) Rules, 2015 after the "Forward e-auction" conducted on 01.11.2017 for Parasi Gold Block, in District Ranchi vide letter no. Kha. Ni. (Ranchi/Gold)-18/2016-2543/M, Ranchi dated 13.11.2017 and subsequently, Letter of Intent (LoI) vide letter no. Kha. Ni.(Ranchi/Gold)-18/2016/15M dated 03.01.2018 was issued by the Director of Mines, Govt. of Jharkhand for the Grant of Mining Lease with subsequent clarification letter no. 1770 dated 09.07.2018 and letter no. Kha. Ni.(Ranchi/Gold)-18/2016/2221M dated 27.08.2018 addressed to the Regional Controller of Mines, IBM, Ranchi about the area of lease being 75.273 Hectares, copy of these letters are enclosed as **Annexure - IIIA**.

The Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha lies in three villages namely Parasi, Kutachauli and Kothadih of Tamar Taluk of Ranchi District, Jharkhand. The Lease area involves Forest land, Govt. Non-Forest Land and Private Land.

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The details of other mining leases of the lessee in the state of Jharkhand are given below.

MINING LEASES OF THE LESSEE IN JHARKHAND

Sl. No.	Name Of Lease	Area (Ha)	Location	Name of Minerals
1.	Ghatkuri Iron ore Mine	138.848	Ghatkuri R.F.	Iron Ore
2.	Meralgara & Barabaljori Iron & Manganese Mine	115.22	At vill- Meralgara & Barabaljori	Iron & Manganese Ore
3	Guira Limestone Mine	12.978	At vill- Guira	Limestone
4	Ragamatia Pyrophyllite Mine	8.866	At vill- Rangamatia	Pyrophyllite

2. LOCATION & ACCESSIBILITY:-

The Parasi Gold Deposit is about 12 km south of Tamar block and can be approached by fair weather road which connects the NH 33 at about 5.5km. Tamar is the block head quarters under Khunti / Bundu Subdivision of Ranchi district, of Jharkhand State and is situated on NH-33 at 55 km from Ranchi. Ranchi Railway station on the South Eastern Railway is the nearest rail-head. Location of the Proposed Mining Lease area is shown in **PLATE – I**.

The area falls on the Survey of India Toposheet No. 73F/9. Toposheet plan showing the boundary of the proposed Mining Lease and Forest area within the lease, duly certified by the Divisional Forest Officer, Khunti Forest Division is enclosed as **PLATE –IB**.

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3. STATUTORY COMPLIANCE:-

The 'Preferred Bidder' shall be considered to be the "Successful Bidder" only after obtaining approval of Mining Plan, Environment Clearance, Forest Clearance, Consent for Operation and all the statutory Clearances as may be required under applicable law for commencement of Mining Operations.

To comply with the conditions of LOI dated 03.01.2018, the Lessee had submitted Mining Plan under rule13 of Mineral (Other than Atomic and Hydro Carbons Energy Minerals) Concession Rules, 2016 and Progressive Mine Closure Plan under Rule 23 of Mineral Conservation and Development Rules, 2017 and has been approved by the Regional Controller of Mines, Indian Bureau of Mines, Ranchi vide letter no RAN/RNC/Gold/MP-14/2018-19 dated 28.11.2018 copy of which is enclosed as **Annexure - IIIC(i)**.

The proposed Mining Lease of Parasi Gold Mines involves total Forest Land of 11.959 Ha / 29.55 Acres which includes 4.407 Ha / 10.89 Acres of Notified Protected Forest and 7.552 Ha / 18.66 Acres of Jungle Jhari forest. The Land Schedule of different type of Forest Land is tabulated below.

Land Schedule of the Notified Protected Forest Land

Sl. No.	Name of the Tenant	Khata	Plot	Area in acre	Type of Land
1	Gair Majarua Khas	280	844	4.96	Tongri
2	Gair Majarua Khas	280	854	5.88	Tongri
3	Gair Majarua Khas	280	3373P	0.05	Pahaar
Total Area				10.89Ac / 4.407 Ha	

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Land Schedule of the Jungle Jhari Forest Land

Sl. No.	Name of the Tenant	Khata	Plot	Area in acre	Type of Land
1	Gair Majarua Khas	280	830P	1.15	Jungle Paraas
2	Gair Majarua Khas	280	835P	0.07	Jungle Paraas
3	Gair Majarua Khas	280	836	1.07	Jungle
4	Gair Majarua Khas	280	838	6.66	Jungle Paraas
5	Gair Majarua Khas	280	840	2.21	Jungle Paraas
6	Gair Majarua Khas	280	843	3.67	Jungle Jhaari
7	Gair Majurua Malik	280	847	0.26	Jungle Jhaari
8	Gair Majarua Khas	280	1023	1.56	Jungle Jhaari
9	Kisun Rai	247	1037P	2.01	Jungle Jhaari
Total Area				18.66 Ac / 7.552 Ha	

SUMMARY OF FOREST LAND

Sl No	Type of Forest	Area in Acres
1	Notified Protected Forest	10.89
2	Jungle Jhari Forest	18.66
Total Forest Area in Acres		29.55
Total Forest Area in Hectares (Ha)		11.959

The Forest land lies within the proposed Lease area has been shown on Cadastral plan, Toposheet & Satellite Imagery has been certified by the Divisional Forest Officer, Khunti Forest Division along with the Land Schedule of the Forest Land vide letter no 2502 dated 14.12.2018; copy of the letter and Certified Land schedule is enclosed as **Annexure - IIID**. Certified Cadastral Plan, Toposheet Map & Satellite Map showing the Forest

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Land falls within the proposed Lease Boundary is enclosed as **PLATE – IB, IC & ID.**

Application for obtaining Forest Clearance for the Forest Diversion Proposal for non-forest use for mining purposes, under section 2(ii) of Forest Conservation Act, 1980 over an area of 11.959 Ha / 29.55 Acres of Forest Land falling within the boundary of proposed Mining Lease of Parasi Gold Deposit has been submitted online vide proposal no. FP/JH/MIN/37423/2018 and acknowledgement vide e-mail dated 02.01.2019, copy of which is enclosed as **ANNEXURE – IIIC(ii)** and is under processes with Govt. of Jharkhand.

Further, the Lessee has applied for Terms of Reference (TOR) required for EIA studies for Environmental Clearance to the State Level Environment Impact Assessment Authority (SEIAA), Ranchi, Jharkhand through online portal vide acknowledgement no SIA/ JH/ MIN/ 30477/ 2018 dated 24.12.2018, copy of which is enclosed as **ANNEXURE – IIIC(iii).**

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4. COMPLIANCE OF CIRCULARS FROM INDIAN BUREAU OF MINES AND MINISTRY OF ENVIRONMENT & FOREST

As per the condition no (viii) stipulated in the approval letter of Mining Plan of Regional Controller of Mines, Indian Bureau of Mines, Ranchi, the lessee has to comply the CCOM Circular No 02/2010 dated 06.04.2010.

Ministry of Environment & Forest, FC division, Govt. of India vide letter no- F. No. 11-9/98-FC dated 8th July 2011 issued Circular pertaining to submission of Authenticated Geo Referenced Digital plan for applications under FC Act, 1980 for all applicant applied for Non Forest use of Forest Land (Enclosed as **ANNEXURE- IA**).

Further, in reference to our Diversion Proposal submitted, the Divisional Forest Officer, Khunti Forest Division issued a letter for submission of DGPS survey Report of the Forest Land applied for diversion vide letter no 213 dated 21.01.2019.

Therefore, the present report is prepared after conducting DGPS observation and other related field survey in compliance of the above mentioned circulars and orders for Geo Referenced Cadastral Map and preparation of Geo Referenced Mining Lease boundary in shape file & a Digital map.

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PART – A

DGPS survey in compliance of CCOM circular no 02/2010 dated 06.04.2010.

1. AUTHENTICATED GRANTED MINING LEASE PLAN & LAND SCHEDULE:-

The Proposed Lease area of Parasi Gold Deposit over an area of 75.273 Ha falls in village Parasi, Kothadih and Kutachauli of Taluk -Tamar, Dist – Ranchi, Jharkhand exits in four village sheets namely Parasi Village sheet No 3 & 4, Kothadih village Sheet No – 2 and Kutachauli Village sheet.

The Precise Area Map and Location Map of the Proposed Mining Lease area of Parasi Gold Deposit as provided by the Govt. of Jharkhand with the DGPS Survey Report (as a part of Tender Document for Auction) is enclosed herewith the current report as **PLATE - IA**.

Land schedule of the proposed ML area of 75.273 ha duly authenticated by the Circle Officer, Tamar is enclosed and marked as **ANNEXURE – IIIB**.

2. PROCUREMENT OF COORDINATES OF NEAREST GTS POINT FROM SURVEY OF INDIA, GOVT OF INDIA:-

While carrying out the DGPS Survey of Parasi Gold Deposit area, Govt. of Jharkhand procured the GTS Point from the Survey of India, Ranchi vide letter No 51/40-L-3 dated 14.01.2016, copy of which was enclosed in the

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DGPS Survey Report. The Report was a part of the Tender Document offered for the Auction of the said Block.

As a participant, M/s Rungta Mines Ltd. purchased the Tender Document along with the DGPS Survey report published by the State Govt. During Carrying out the current Survey, the same GTS point of Parasi HS (23°00'33.3"N, 85°42'21.3") has been used as a base reference point of Survey. Copy of the letter from Survey of India, Ranchi providing the co-ordinate of GTS Point is enclosed as **ANNEXURE – IV**.

3. PROCUREMENT OF SATELLITE IMAGERY / DATA FROM NATIONAL REMOTE SENSING CENTRE, HYDERABAD:-

On receipt of work order for the said job, a request letter was submitted to National Remote Sensing Centre, Govt. of India, Hyderabad for Procurement of High Resolution cloud free Satellite Imagery of LISS IV & CARTOSAT 2.

National Remote Sensing Centre, Govt. of India, Hyderabad provide the High Resolution cloud free Satellite Imagery of LISS IV & CARTOSAT 2. The copy of invoice pertaining to providing of the satellite data vide bill No 1819-3194 dated 07.02.2019 is enclosed with this report as **ANNEXURE V**.

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4. PREPARATORY WORK FOR COMMENCEMENT OF DGPS FIELD WORKS AT MINE SITE:-

The proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha comprised of part area of village Parasi, Kothadih, Kutachauli of Taluk - Tamar, Dist – Ranchi, Jharkhand. Topography of the area of the Mining Lease is peneplain.

The Mining Lease area falls on Survey of India Toposheet No F45H9. Survey of India provided 3 nos of GTS Points and Parasi HS was selected for carrying out the DGPS Survey as was found to exist within 2.21 KM (Approx) aerial distance from the proposed Mining Lease of Parasi Gold Deposit. The location of the GTS point of Parasi HS lies on F45B12 Toposheet.

All others related aspects for execution of DGPS field work was taken care before commencement of the respective field work.

5. TECHNICAL APPROACH & METHODOLOGY:-

1. DEMARCATION OF GRANTED MINING LEASE AREA BOUNDARY WITH ERECTIONS OF BOUNDARY PILLARS:-

The proposed Mining Lease Boundary of Parasi Gold deposit was demarcated by the Govt. of Jharkhand before conducting the Forward e-Auction by erecting and grouting of Iron plates marked with the Boundary Pillar No, coordinates and mRL.

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M/s Rungta Mines Limited was declared "Preferred Bidder" as per Rule 9.4(b)(iii) of Mineral (Auction) Rules, 2015 and subsequently LOI was issued vide dated 03.01.2018. In compliance of the Gazette Notification of Ministry of Mines vide dated 08.10.2014, 20 no of RCC Pillars of Dimension 0.30m x 0.30m x 1.30m have been erected as corner pillar just beside the pillars put by the Govt. of Jharkhand.

The DGPS observation by Static method was conducted over the pillars erected by the State Govt. The selected Photographs showing the demarcated & erected pillars at Mine Site which included the carrying out of DGPS survey over the same location is attached with this report as **ANNEXURE X**. The superimposed proposed Mining Lease plan showing the location of each boundary pillars is attached with this report as **PLATE - IV**.

II. TRANSFER & ESTABLISHMENT OF GTS BASE STATION :-

M/s Rungta Mines Ltd. received the coordinates of GTS point from DGPS survey report as published and provided by the Govt. of Jharkhand along with the Tender Documents.

The GTS Point at Parasi Hs (23°00'33.3"N, 85°42'21.3") was selected in order to establish the base station over the known & recognized GTS station and to connect the said deposit to National Grid in WGS 1984 Datum.

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A group of surveyors along with SOKKIA Make Global Navigation Satellite System (GLONSS) commenced the respective field survey work at the Parasi Gold deposit Area. During the reconnaissance survey, it was found that the topography of the area is of peneplain terrain and Survey of India GTS point exists at Parasi Hs which lies at 2.21 KM (Approx.) aerial distance from the Parasi Gold deposit. Therefore, it was decided to establish one Base Station (Base 1) at this GTS location along with other three control Base Station (Base 2 – Base 4) for formation of Primary Triangulation in different location over the Parasi Gold deposit. STATIC METHOD of DGPS Survey was carried out over the said location by doing about 2 hours of Satellite observations. The acquired satellite data of all the 03 Control Base Stations (Base 2 – Base4) were processed along with the data obtained from Base 1 (GTS) by the DGPS Software to get the 03 Control Base Stations linked with the GTS Coordinate i.e with the National Grid.

DGPS Survey of the 20 nos of Lease Boundary Pillars by STATIC method were carried out and processed with reference to the established 03 no of control base stations.

The raw & post processed DGPS field observation data of all Base line by static method showing the number of satellite received during observation, Latitude, Longitude, Northing, Easting & Elevation, Primary triangulation network adjustment data in HRMS & VRMS, etc. is attached with this report as **ANNEXURE – VI**. The Photograph showing the DGPS observation over the Base line/station is attached with this report as **ANNEXURE - IX**.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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III. DGPS OBSERVATIONS FOR GEO REFERENCING OF MINING LEASE AREA BOUNDARY:-

DGPS observations were carried out by STATIC method from the established Ground Control Base Station to the already demarcated and erected proposed Mining Lease area Boundary pillar (20 nos) from WB1 To WB6 , CB1 To CB12 & EB1 To EB6 along the Boundary of Parasi Gold Deposit for establishment of Secondary Triangulation Network in order to Geo Referencing of proposed ML area Plan. The superimposed Geo Referenced proposed Mining Lease plan showing the DGPS survey location of each boundary pillars is attached with this report as **PLATE - III**. The selected Photograph showing the DGPS observation over the demarcated location on proposed ML boundary area is attached with this report as **ANNEXURE - X**. The raw DGPS field observation data of all demarcated & erected boundary pillars of proposed ML Boundary pillar of (20 nos) from WB1 To WB6 , CB1 To CB12 & EB1 To EB6 along the Boundary of Parasi Gold Deposit by STATIC method showing the number of satellite received during observation, Latitude, longitude, Northing, Easting & Z value, Secondary triangulation Network adjustment data in terms of HRMS & VRMS, etc is attached with this report as **ANNEXURE – VII**.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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IV. DGPS OBSERVATIONS FOR GEO REFERENCING OF RELATED VILLAGE/CADASTRAL MAP:-

Parasi Gold Deposit over an area of 75.273 Ha lies in three villages viz. Parasi (Thana no – 151), Kothadih (Thana no – 155) and Kutachauli (Thana no – 153) of Thana -Tamar, Dist – Ranchi, Jharkhand. The Lease area falls in four village sheets namely Parasi Village sheet No 3 & 4, Kothadih Sheet No – 2 and Kutachauli Village sheet.

DGPS observations were carried out by RTK method for Geo Referencing of the all the related village/cadastral map from the established Ground Control Base Station to the known and common points at field for all the village sheets of the said villages.

DGPS observation was carried out over total 28 nos (average 7 points per village sheet) of common known point for Geo Referencing of the each sheet of village/cadastral maps.

V. PREPARATION OF GEO REFERENCED VECTORISED RELATED VILLAGE/CADASTRAL MAP:-

Parasi Village sheet No 3 & 4, Kothadih Sheet No – 2 and Kutachauli Village sheet were scanned properly by avoiding all errors. The said image of the Map was transferred to ARC GIS software for Geo referencing by processing the respective field DGPS observation data.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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Geo Referenced Vectorised Village/Cadastral Maps showing the location of all DGPS observation point was taken for Geo Referencing including the proposed ML boundary points of the proposed Mining Lease area was prepared. The Geo Referenced vectorised village Sheets of Parasi (sheet No 3 & 4), Kothadih (Sheet No – 2) and Kutachauli Village sheet is attached with this report as **PLATE – IIA, IIB, IIC & IID.**

VI. PREPARATION OF GEO REFERENCED VECTORISED GRANTED MINING LEASE PLAN:-

After completion of field work for DGPS observation over all the demarcated & erected boundary pillars along proposed ML area, the raw data was downloaded from DGPS equipment and processed by DGPS Software to obtain the final coordinates. The processed coordinates of all boundary points of proposed ML area was imported to ARC GIS software for preparation of Geo Referenced proposed Mining Lease boundary. Geo Referenced Vectorised Cadastral/Village Maps showing the ML boundary points of the proposed Mining Lease area was prepared. The Geo Referenced proposed Mining Lease boundary was superimposed with the proposed Mining Lease plan in order to prepare the Final Geo Referenced proposed Mining Lease Plan. The Final Geo Referenced proposed Mining Lease Plan in Scale 1:3960 is attached with this report as **PLATE - III.**

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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VII. PREPARATION OF SUPERIMPOSED GEO REFERENCED VECTORISED GRANTED MINING LEASE PLAN OVER SATELLITE IMAGERY WITH 500 METER BUFFER AREA:-

Satellite Imagery data (CARTOSAT 2 & LISS IV) of the respective area was procured from National Remote Sensing Centre, Hyderabad vide bill No 1819-3194 dated 07.02.2019 in TIFF format. The TIFF format was imported in ARC GIS software. Superimposition of Geo Referenced proposed Mining Lease plan of Parasi Gold deposit over procured Satellite Imagery was done in the said software. Buffering of additional 500 meter satellite imagery data from the proposed ML boundary has been marked.

After processing of the same, final Superimposed Geo Referenced Vectorised proposed Mining Lease plan in UTM Projection over merged Satellite Imagery of CARTOSAT 2 and LISS IV with 500 Meter buffer area beyond the proposed ML area was prepared and the same is attached with this report as **PLATE IV**.

VIII. PREPARATION OF GEO REFERENCED DIGITAL PLAN:

After completion of all field survey, the processed data was used for preparation of Geo Referenced Digital plan in Shape layer file. The Geo Referenced Digital plan in Shape layer is attached with this report as soft copy in SHAPE LAYER file IN DVD format. The Coordinates of all corner point of ML Boundary of all demarcated boundary pillars of (20 nos) from WB1 to WB6, CB1 to CB12 & EB1 to EB6 along the Boundary of Parasi

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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Gold Deposit and its Closed Traverse data i.e. Fore Bearing, Back Bearing & pillar to Pillar distance is attached as **ANNEXURE - XI & XII**.

6. COMPARISON OF EARLIER DGPS SURVEY DONE BY THE GOVT. OF JHARKHAND

DGPS Survey was carried out by the Govt. of Jharkhand during the year 2016 and the Survey Report was provided to the participating bidders as a part of the Tender Document for Auction of the Parasi Gold Block. The GTS Point co-ordinate of Parasi HS as provided by the Survey of India was selected to carry out the DGPS Survey. The proposed Mining Lease Boundary was demarcated with total 20 no of boundary Pillars which were surveyed and the enclose area of the Parasi Gold Block was found to be of 75.273 Ha. The coordinates of the Boundary Pillars are given hereunder.

In compliance of the condition no (viii) stipulated in the approval letter of Mining Plan of Regional Controller of Mines, Indian Bureau of Mines, Ranchi, the current DGPS Survey of the Lease Boundary Pillars has been carried out to comply the CCOM Circular No 02/2010 and its addendum dated 06.04.2010.

The same GTS Point has again been considered to carry out the DGPS Survey. The co-ordinate of the Boundary Pillars has been shown in **ANNEXURE - XI**. The Lease area of Parasi Gold Deposit calculated with the DGPS Survey data carried out by Gems Projects Pvt. Ltd. Ranchi, engaged for the purpose by M/s Rungta Mines Ltd. is 75.272 Ha.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chalbasa, Jharkhand
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Geo-referencing of the Cadastral Maps of the villages (Parasi, Kothadih and Kutachauli) falling within the Mining Lease area of Parasi Gold Deposit has been done and is enclosed as **PLATE – III** and superimposed lease boundary with it's 500m buffer zone on the cloud free Satellite imagery is enclosed as **PLATE– IV**.

The details of the current DGPS Survey, highlighting the preparatory works, technical methodology with raw data generation and vectorisation are elaborated in earlier sections. The co-ordinates of the Boundary Pillars based on DGPS Survey as provided by State Government with Tender Documents and the current DGPS survey carried out by Gems Projects Pvt. Ltd. Ranchi, engaged for the purpose by M/s Rungta Mines Ltd. are tabulated below:

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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**Comparison of Co-ordinates as provided by the State Government and
as captured during current DGPS Survey**

Code	Latitude		Longitude	
	Data provided by State Govt.	Current Survey Data	Data provided by State Govt.	Current Survey Data
CB1/ WB3	22° 59' 33.0520" N	22° 59' 33.053" N	85° 43' 05.4180" E	85° 43' 05.418" E
CB2	22° 59' 34.6120" N	22° 59' 34.614" N	85° 43' 06.4680" E	85° 43' 06.469" E
CB3	22° 59' 35.3220" N	22° 59' 35.322" N	85° 43' 10.4080" E	85° 43' 10.408" E
CB4	22° 59' 37.1020" N	22° 59' 37.101" N	85° 43' 15.8570" E	85° 43' 15.857" E
CB5	22° 59' 38.0620" N	22° 59' 38.063" N	85° 43' 20.4860" E	85° 43' 20.487" E
CB 6 / 7	22° 59' 39.0220" N	22° 59' 39.022" N	85° 43' 22.2260" E	85° 43' 22.224" E
CB 8	22° 59' 38.7520" N	22° 59' 38.751" N	85° 43' 23.9360" E	85° 43' 23.936" E
CB 9 / EB1	22° 59' 41.1920" N	22° 59' 41.195" N	85° 43' 27.2350" E	85° 43' 27.232" E
CB10 / EB7	22° 59' 26.5530" N	22° 59' 26.552" N	85° 43' 31.8150" E	85° 43' 31.816" E
CB11	22° 59' 17.5130" N	22° 59' 17.511" N	85° 43' 11.6980" E	85° 43' 11.699" E
CB12 / WB4	22° 59' 18.3630" N	22° 59' 18.362" N	85° 43' 10.0180" E	85° 43' 10.017" E
EB2A	22° 59' 39.6520" N	22° 59' 39.652" N	85° 43' 28.8350" E	85° 43' 28.834" E
EB3	22° 59' 43.9020" N	22° 59' 43.902" N	85° 43' 45.0130" E	85° 43' 45.014" E
EB4	22° 59' 30.4530" N	22° 59' 30.454" N	85° 43' 49.2230" E	85° 43' 49.222" E
EB5	22° 59' 26.5530" N	22° 59' 26.559" N	85° 43' 33.8950" E	85° 43' 33.896" E
EB6	22° 59' 26.7130" N	22° 59' 26.710" N	85° 43' 32.0850" E	85° 43' 32.086" E
WB1	22° 59' 25.8220" N	22° 59' 25.822" N	85° 42' 47.2510" E	85° 42' 47.251" E
WB2	22° 59' 30.7420" N	22° 59' 30.742" N	85° 43' 03.8380" E	85° 43' 03.838" E
WB5	22° 59' 19.7430" N	22° 59' 19.743" N	85° 43' 07.2980" E	85° 43' 07.298" E
WB6	22° 59' 14.0130" N	22° 59' 14.013" N	85° 42' 50.9500" E	85° 42' 50.950" E

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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7. CONCLUSION :

M/s Rungta Mines Limited has been declared as the "Preferred Bidder" of Parasi Gold Block in village Parasi, Kothadih and Kutachauli of Ranchi District, Jharkhand over an area of 75.273 Ha by the Government of Jharkhand, issuing Letter of Intent (LOI) by the Director of Mines, Department of Industries, Mines & Geology, Government of Jharkhand vide Letter No. – Kha. Ni. (Ranchi/Gold) – 18/2016/15 dated 03.01.2018 and subsequent clarification letters vide letter no. 1770 dated 09.07.2018 & letter no. Kha.Ni. (Ranchi/Gold)-18/2016/2221M/ Ranchi dated 27.08.2018. Copies of said letters are enclosed as **ANNEXURE – IIIA**.

DGPS Survey of the demarcated boundary pillars erected on ground was conducted and the coordinates of the Boundary Pillars and geo-referenced Mining Lease Plan was prepared and is enclosed as **ANNEXURE – XI** and **PLATE - III**. As per the DGPS Survey data, total area of the proposed Mining Lease of Parasi Gold Deposit enclosed by the Boundary Pillars has been computed to be of 75.272 Ha.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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PART – B

DGPS survey in compliance of Circular no 11-9 / 98 – FC dated 08.07.2011 of the Ministry of Environment and Forest, Government of India.

1. TECHNICAL APPROACH & METHODOLOGY

I. PREPARATION OF PLAN SHOWING THE FOREST AREA WITHIN PROPOSED ML BOUNDARY

Parasi Gold Deposit over an area of 75.273 Ha lies in three villages viz. Parasi, Kothadih and Kutachauli of Tamar Taluka, Dist – Ranchi, Jharkhand. The Lease area falls in four village sheets namely Parasi Village sheet No 3 & 4, Kothadih Sheet No – 2 and Kutachauli Village sheet. However, Forest area of 11.959 Hectares (29.55 Acres) falling within the proposed Mining Lease of Parasi Gold Deposit includes 4.407 Hectares (10.89 Acres) of Notified Protected Forest and 7.552 Hectares (18.66 Acres) of Jungle - Jhari forest lies within the Parasi Village sheet No 3 & 4. The said Map was scanned properly in order to avoid any error and transfer to ARC GIS software for Digitization. The Digitized sheets were compared with the certified maps showing the Forest boundary within the proposed ML area and finalized.

The proposed Mining Lease Boundary was transferred over the digitized Map based on maps of proposed Mining Lease area provided

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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to the Preferred Bidder i.e. M/s Rungta Mines Limited by the Government of Jharkhand for an area of 75.273 Ha.

The proposed Mining Lease of Parasi Gold Mines involves total Forest Land of 11.959 Ha / 29.55 Acres. The Forest area boundary was identified over the Map by marking 142 numbers Forest Pillar from F-1 to F-142 over all the corner of the Forest area for proper delineation of Forest area Boundary applied for diversion in the field. The Cadastral Map, Toposheet Map & Satellite image map showing the Boundary of Proposed Mining Lease of Parasi Gold Deposit and the Forest Land within the M.L area have been certified by the Divisional Forest Officer, Khunti Forest Division is attached with this report as **PLATE – IB, IC & ID.**

II. DEMARCATION OF FOREST AREA

The Forest area has been demarcated by closed traverse method from traverse stations i.e. at boundary pillars marked “F-1” to “F-142 ” by using Electronic Total Station as given in ML Boundary Plan. The Forest Area surface layout plan showing the Forest area lies within the boundary of proposed Mining Lease is attached with this report as **PLATE - V.**

III. ESTABLISHMENT OF GROUND CONTROL BASE STATION

A group of surveyors along with SOKKIA Make Global Navigation Satellite System was commenced the respective field survey work at

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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the proposed Mine Lease Area of Parasi Gold deposit. During the reconnaissance survey, it was found that the topography of the area is peneplain terrain. Therefore, it was decided to establish three nos. Control Base Station (Base 2, Base 3 and Base 4) for formation of Primary Triangulation in different location within the proposed ML area. DGPS observation by STATIC METHOD was carried out over the said location by doing about 2 hours of Satellite observation. During the course of Field survey, 3 nos. of Ground Control Base Stations were established named as Base 2, Base 3 and Base 4. The Base Station's data were processed along with the data acquired at the GTS Point (Base 1). DGPS observation by RTK method for Geo Referencing of the Forest Area leas within the boundary of Proposed Mining Lease area of Parasi Gold Deposit, has been carried out with reference to the Base Station no 4.

The raw & post processed DGPS field observation data of all Base line by static method showing the number of satellite received during observation, Latitude, longitude, Northing, Easting & Z value, Primary triangulation Network adjustment data in HRMS & VRMS, etc is attached with this report as **ANNEXURE – VI**. The Photograph showing the DGPS observation over the 2 Base line/station is attached with this report as **ANNEXURE IX**.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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IV. DGPS OBSERVATIONS FOR GEO REFERENCING OF FOREST AREA BOUNDARY PLAN.

DGPS observations were carried out by RTK method from the established Ground Control Base Station (Base-4) to Forest area corner from Boundary Pillar no F-1 to F-142 for establishment of Secondary Triangulation Network in order to Geo Referencing of Forest area Plan. The DGPS Forest Area surface layout plan showing the Forest area lies within the proposed ML Boundary is attached with this report as **PLATE V**. The Photograph showing the DGPS observation over the ML boundary pillars and Forest area is attached with this report as **ANNEXURE X**. The raw & post processed DGPS field observation data of all Forest area line from F-1 to F-142 by RTK method showing the number of satellite received during observation, Latitude, Longitude, Northing, Easting & Z value, Secondary triangulation Network adjustment data in terms of HRMS & VRMS, etc is attached with this report as **ANNEXURE – VIII**.

V. PREPARATION OF GEOREFERENCING DIGITAL PLAN IN SHAPE FILE.

After completion of all field survey, the processed data was used for preparation of Geo Referenced Digital plan in Shape layer File. The Geo Referenced Digital plan in Shape layer is attached with this report as **Plate No – VII** along with the soft copy of SHAPE LAYER file in DVD format. The Coordinates of all corner point of Forest area Boundary from F-1 to F-142 and its Closed Traverse data i.e. Fore Bearing, Back Bearing & pillar to Pillar distance is attached as **Annexure – XIII & XIV**.

 Gems Projects Pvt. Ltd. Ranchi, Jharkhand	A Report on Preparation of Geo Referenced Cadastral Map by DGPS Survey in respect of the Proposed Mining Lease of Parasi Gold Deposit over an area of 75.273 Ha and Forest Land over an area of 11.959 Ha falls within the Boundary of Proposed Mining Lease.	 Rungta Mines Ltd. Chaibasa, Jharkhand
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The soft copy in DVD format of fly on Google Earth of Geo Referenced Forest area of 11.959 Ha lies within the proposed Mining Lease area of Parasi Gold Deposit is attached with this report in soft copy.

2. ABBRERVIATIONS-

- a. DGPS- Differential Global Positioning System.
- b. FC – Forest Conservation
- c. GIS – Geographical Information System
- d. RTK – Real Time Kinematics
- e. ML – Mining Lease
- f. RCC – Reinforced Cement Concrete
- g. F 1 – Boundary Pillar/Erected Forest Pillar
- h. HRMS & VRMS – Horizontal & Vertical Triangulation adjustment data

Annexure – IIIA

Letter of Intent (LOI) along with subsequent clarifications vide letter no. 1770 dated 09.07.2018 and letter no. Kha. Ni.(Ranchi/Gold)-18/2016/2221M dated 27.08.2018.

**GOVERNMENT OF JHARKHAND
DEPARTMENT OF INDUSTRIES, MINES & GEOLOGY
DIRECTORATE OF MINES**

Letter No.Kha.Ni (Ranchi/Gold)-18/2016

15

M/Ranchi, Date: 03-01-18

From,

S.I. Minz
Director (Mines)

To,

M/s Rungta Mines Ltd.
Rungta House, Sadar Bazar
Chaibasa-833201
West Singhbhum, Jharkhand.

**Sub :- Letter of Intent (LoI) for Mining Lease (ML) for Parasi Gold Block,
(Total Area- 69.240 Ha.)Tamar Block, District-Ranchi-reg**

Sir,

In pursuance to the Mines and Minerals (Development and Regulation) Act, 1957 (the "Act") and the Mineral (Auction) Rules, 2015, and subsequent amendments, issued the notice inviting tender dated 12th August, 2017 commence the auction process for grant of Mining Lease for Parasi Gold block located in District, Ranchi, Jharkhand. The e-auction process was conducted on 01.11.2017 in accordance with the tender document for the said mineral block and based on the highest final price offer of 17% (Seventeen Percentage), M/s Rungta Mines Ltd, Rungta House, Sadar Bazar, Chaibasa-833201, West Singhbhum, Jharkhand has been declared as the 'Preferred Bidder' for for **Parasi Gold Block over an area of 69.240 Ha** under Rule 9(4) (b) (iii) of the Rules.

In pursuance to the Rule-11(2) of Mineral (Auction) Rules, 2015, the Preferred Bidder M/s Rungta Mines Ltd., Chaibasa have deposited a sum of INR 1,52,64,046/- (Rupees One Crore Fifty Two Lakhs Sixty Four Thousand Forty Six) only by Demand Draft no.650413 dated 15.11.2017 in favour of Director, Mines, Government of Jharkhand as payment of first installment i.e. 10% of upfront payment vide their Letter No.RML/BD/Parasi_com/17-18/328 dated 15.11.2017.

Therefore, a Letter of Intent (LoI) is issued to the Preferred Bidder M/s Rungta Mines Ltd., Chaibasa for grant of Mining Lease for the **Parasi Gold Block over an area of 69.240 Ha.** in Parasi, Block Tamar, District-Ranchi, Jharkhand on following Terms & Conditions:-

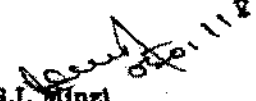
The Preferred Bidder shall be considered to be the "Successful Bidder" upon :-

- a. The Preferred Bidder will continue to be in compliance with all the terms and conditions of eligibility as per Rule-6(1) and 6(2) read with Schedule-I of Mineral (Auction) Rules, 2015.
- b. The Preferred Bidder shall make online payment of the Second installment of the Upfront payment (being 10% of total Upfront Payment) which is INR 1,52,22,138/- (INR One Crore Fifty Two Lakhs Twenty Two Thousand One Hundred Thirty Eight only) on or before 10.01.2018.
- c. The Preferred Bidder shall furnish the Performance Security pursuant to the Auction Rules, valid for the period specified in the MDPA, for an amount equal to INR 15,22,21,383/- (INR Fifteen Crores Twenty Two Lakhs Twenty One

Thousand Three Hundred Eighty Three Only) on or before 10.01.2018 pursuant to sub-rule(1) of rule 12 of the Auction Rules, the Performance Security shall be adjusted every five years so that it continues to correspond to 0.50% of the reassessed value of estimated resources determined in accordance with the Auction Rules. In such case, bank guarantee constituting the Performance Security shall be substituted with another bank guarantee of the same value issued in accordance with the Clause 10.2, which is for the revised amount or if the Performance Security has been provided through a security deposit, additional amount towards security deposit shall be provided;

- d. The Preferred Bidder shall satisfy the conditions specified in clause (b) of Sub-section (2) of section 5 of the Mines and Minerals (Development and Regulation) Act, 1957 with respect to a mining plan
- e. The Preferred Bidder shall satisfy such other conditions as may be specified by the State Government with the prior approval of the Central Government.
- f. The Preferred Bidder shall obtain Environmental Clearance, Forest Clearance, Consent to Operate and all other statutory Clearances with approvals, permits, no-objections and the like as may be required under applicable Law for commencement of mining operations.

Yours faithfully,


(S.I. Minz)
Director (Mines)

**GOVERNMENT OF JHARKHAND
DEPARTMENT OF MINES & GEOLOGY
DIRECTORATE OF MINES**

Letter No:-

1770

Date: 9/7/18

From,

**Zeeshan Qamer, I.A.S
Director (Mines)**

To,

**B. K. Jha
Asst. Vice President
M/s Rungta Mines Ltd.
Rungta House, Sadar Bazar
Chaibasa, Jharkhand**

Sub: Amendment of Area of Mining Lease mentioned in the Letter of Intent issued for grant of Parasi Gold Block to M/s Rungta Mines Limited vide letter no. - Kha.Ni. (Ranchi/ Gold)- 18/ 2016 - 15 - M/ Ranchi, dated 03.01.2018

Ref: Letter no.- RML/ BD/ Parasi/ 18- 19/ 139, dated 1st June, 2018 regarding amendment of area of mining lease

Letter no.- RML/ BD/ Parasi/ 18- 19/ 168, dated 6th June, 2018 regarding amendment of area of mining lease enclosing certified copy of land schedule

Sir,

This is with reference to Parasi Gold Block located in the Parasi village of Ranchi district, Jharkhand which had been put up for auction by State Government of Jharkhand for grant of mining lease. Accordingly, pursuant to the Mineral (Auction) Rules- 2015, NIT was published on 13th August, 2017 over an area of 69.24 ha as per the revenue record. With reference to Part- C of the tender document no. - MSTC /RNC/DEPARTMENT OF MINES AND GEOLOGY/Jharkhand/17-13/7611. Total concession area as per DGPS/ ETS survey is 75.273 ha and 69.240 ha as per revenue record.

As per Rule no.- 9(4)(b)(iii) of Mineral (Auction) Rules, 2015, M/s Rungta Mines Ltd. emerged as preferred bidder submitting the highest final price offer of 17.0% of value of mineral despatched. Hence M/s Rungta Mines Ltd. has been declared as preferred bidder vide letter no.- Kha.Ni. (Ranchi/ Gold)- 18/ 2016/ 2543/ M, Ranchi dated 13th November, 2017. The 1st installment being 10% of the upfront payment has been deposited by M/s Rungta Mines Ltd. vide letter no.- RML/ BD/ Parasi_Com/ 17- 18/ 328 dated 15th November, 2017. Accordingly, M/s Rungta Mines Ltd has been issued LOI vide letter no.- Kha.Ni. (Ranchi/ Gold)- 18/ 2016/ 15/ M/ Ranchi dated 3rd January, 2018 over an area of 69.240 ha.

With reference to the aforementioned letters submitted by M/s Rungta Mines Ltd regarding amendment of area mentioned in the LOI we would like to submit the following clarifications:

1. The geological report was prepared by M/s MECL and DGPS survey of the leasehold area is conducted by M/s MECON Ltd. With reference to Clause No.- 5 of Mineral (Auction) Rules- 2015 and Clause No.- 5 of Minerals (Evidence of Mineral Contents) Rules, 2015, tender document was prepared by M/s MECON Ltd on which auction was successfully conducted by Department of Mines & Geology on the e- auction platform provided by MSTC.
2. As per the provision of Mineral (Auction) Rules- 2015, GR and DGPS survey report is the part of the tender document which has been duly uploaded along with NIT in the MSTC website and same has been downloaded by the respective bidders from the site of MSTC. Topographical survey plan, geo-referenced cadastral map, sections have been well uploaded on the site of MSTC, now as auction process has already been completed with declaration of preferred bidder neither anything can be added nor modified in the existing tender document. As LOI has been issued based on the tender document it does not require any further amendment.
3. NIT of Parasi Gold Block has been published on 13th August, 2017 over an area of 69.20 ha as per revenue record whereas in Page No.- 12 of DGPS report of tender document area mentioned is 75.273 ha (Annexure- 1). Since auction of Parasi Gold Block has been conducted over a leasehold area enclosed within the co-ordinates provided in the tender document, auction will be valid to that extent only. Hence you are requested to prepare the Mining Plan accordingly.
4. It may be also noted that during the 1st Pre- Bid Conference, held on 11th May, 2017, query regarding the leasehold area has been raised and it has been replied that DGPS Surveyed map and area therein is accepted.

Therefore, as per prevailing rules and practices if difference arises between text and map, the map should prevail.

Yours Sincerely,


(Zeeshan Qamar)
Director (Mines)

End: Annexure- 1

Methodology Adopted

1. At the beginning of the work MECON RANCHI and state Geology and mining department officials have shown the mining blocks with all the corner points of the block for which the survey is to be carried out.
2. Collection of GTS Bench Mark, Topo sheet and Ground Reference Point for each location from Survey of India.
3. As per the instructions, a team equipped with DGPS and Electronic Total station is deployed at the site. Recordings were obtained at all stations are taking the readings for 2 hours at each station. DGPS Observation for connecting Sol Reference Point and establishing GCP point around the proposed site for ML-BP.
4. Forest pillar could not be located in 3-4 Km vicinity of mine boundary area. Forest department was contacted at Khunti and Bundu to locate the forest pillars. It was informed that no forest pillars exist in the area. It was decided that "Chand" shown by Amin of the local area shall be marked on the map as ground reference point physically seen at the area.
5. Cadastral map for the concerned mining lease area is collected from the revenue department and vectorized.
6. As per the proposed boundary limits are falling in village jurisdiction, Procurement of Authenticate Revenue Maps of village and plot wise owner/area details from Revenue Department.
7. Satellite imageries required for the area of interest are procured from NRSC.
8. Digitization of Revenue map and preparation of land record as village area falling within property. Mining lease boundary on the basis of cadastral map is marked.
9. Ground control points were fixed by carrying the level from the reference Bench mark shown by the mining office to the site.
10. Topographic survey is conducted to mark all the existing ground features using in the report. Electronic Total station to pick up the ground level.
11. A base map is prepared using the collected data.
12. The scanned cadastral map is Geo- referenced and mosaicing is done.
13. Lease boundary pillars were fixed on the lease boundary and at corners as per the specifications.
14. NRSC confirmed that cartosat-2 for the referred area is unavailable. Hence, Mining lease map is superimposed over the imagery obtained from merging of cartosat-1 and LISS-IV.

Observations

Lease area from DGPS/ ETS Survey 75.273 Hectares

Land area as per revenue record 69.240 Hectares

Village wise area of plots (as per survey Map) falling within CL-BP:

PARASI	:	54.443 Hectares
KUTACHAULI	:	7.112 Hectares
KOTHADIH	:	7.685 Hectares

Village wise area of plots (as per Land Record) falling within CL-BP:

Area of private land (Agriculture) in mining block	40.855 Hectares
Area of Government Land in mining Block:	12.183 Hectares
Area of Private Forest land in mining block:	7.670 Hectares
Area of unavailable (land record) land in mining block:	7.144 Hectares
Area of River (land record) in mining block:	1.388 Hectares

**GOVERNMENT OF JHARKHAND
DEPARTMENT OF MINES & GEOLOGY
DIRECTORATE OF MINES**

Letter No.Kha.Ni.(Ranchi/Gold)-18/2016 2221 M/Ranchi, Date: 27/8/18

From,

Zeeshan Qamer, I.A.S.
Director (Mines)

To,

Regional Controller of Mines
Indian Bureau of Mines
318/B, Road no.-03, Ashok Nagar
Ranchi

Sub :- Mining Plan with PMCP of Parasi Gold Mine over an area of 75.273 Ha of M/s Rungta Mines Ltd. in Parasi, Kutachauli and Kothadih Vill + Post- Parasi, District-Ranchi, Jharkhand

Ref :- Your letter no. RNC/ 18/ MP-GEN/ NGP.Vol.XIV, dated- 30.07.2018

Sir,

In reference to your aforementioned letter Parasi Gold Block comprises an area of 69.20 ha as per the revenue record whereas in the DGPS report the area mentioned is 75.273 ha.

As the auction of Parasi Gold Block has been conducted over an area enclosed within the co-ordinates provided in the tender document, area of the lease (75.273 Ha.) will be valid to that extent only.

Yours Sincerely,


(Zeeshan Qamer)
Director (Mines)
27/8/18

Annexure – IIIB

Authenticated Land Schedule of Granted ML Area

कार्यालय अंचल पदाधिकारी , तमाड़ (राँची)

पत्रांक 292(ii)

दिनांक 6/6/18

प्रेषक ,

अंचल अधिकारी
तमाड़ ।

प्रेषित,

एस०के० शेखरदेव
रुगटा माइन्स लि०
रुगटा हाउस, चाईबासा, 833201
झारखण्ड ।

विषय :- परासी गोल्ड माइन्स से संबंधित भूमि का सत्यापन के संबंध में।

महाशय,

उपर्युक्त विषय के संबंध में कहना है कि हल्का कर्मचारी एवं अंचल निरीक्षक के जाँच प्रतिवेदनानुसार मौजा परासी , कोठाडीह एवं कुटाचावली की गोल्ड माइन्स के तरफ से दाखिल की गई भूमि का अभिलेख से मिलान किया गया , सही पाया गया।

अनुलग्नक :- परासी गोल्ड माइन्स की
जमीन की सत्यापित सूची :- 09

विश्वासभाजन

अंचल अधिकारी
तमाड़

LAND SCHEDULE FOR PARASI GOLD BLOCK OF M/S RUNGTA MINES LIMITED

Name of the Village : PARASI
Thana : TAMAR
Thana No. : 151
Name of the Tahasil : TAMAR
District : RANCHI

(1)

Sl. No.	Name of the Tenant	Khata No.	Plot No	Area in acre	Type of Land
1	Romchandra Singh	1	833P	0.13	Tand III
2	Romchandra Singh	1	837	1.43	Tand III
3	Romchandra Singh	1	841P	1.50	Don II
4	Romchandra Singh	1	842	0.81	Tand III
5	Romchandra Singh	1	868	0.74	Tand II
6	Romchandra Singh	1	869	1.00	Tand II
7	Romchandra Singh	1	875P	0.50	Tand III
8	Romchandra Singh	1	878P	1.11	Tand III
9	Romchandra Singh	1	879P	0.60	Tand II
10	Romchandra Singh	1	968P	0.11	Tand III
11	Romchandra Singh	1	977P	0.10	Tand III
12	Romchandra Singh	1	1001	0.37	Don III
13	Romchandra Singh	1	1002	0.39	Tand III
14	Romchandra Singh	1	1004	0.38	Tand III
15	Romchandra Singh	1	1005	1.27	Tand III
16	Romchandra Singh	1	1008	0.17	Tand III
17	Romchandra Singh	1	1011	0.27	Don III
18	Romchandra Singh	1	1013	0.12	Don III
19	Romchandra Singh	1	1134	0.15	Tand III
20	Romchandra Singh	1	1135	0.16	Don -III
21	Romchandra Singh	1	1137	0.34	Don -III
22	Romchandra Singh	1	3052P	0.05	Tand III
23	Romchandra Singh	1	3352P	0.01	Don-II
24	Romchandra Singh	1	3371P	0.48	Tand III
25	Kartik Sawansi	16	884P	0.21	Don III
26	Katki Sawansi	18	3062P	0.05	Don III
27	Ghasia Ganjhu	42	1127P	0.80	Tand III
28	Ghashu Pura	43	885P	0.01	Tand II
29	Ghashu Pura	43	3045P	1.16	Don -II
30	Ayodhya Shahdev	43	3054P	0.14	Don III
31	Ghashi Pura	43	3354P	0.08	Don III

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1/1/18
रुंगटा मिनर्स लि.
पारासी, राँची

32	Ghashi Pura	43	3355	0.21	Don III
33	Ghashi Pura	43	3361	0.26	Don III
34	Jivai Singh	56	989	0.86	Don III
35	Jivai Singh	56	1031	0.74	Tand II
36	Punrai Pura	65	849	1.44	Tand II
37	Jhagru Mundari	66	853	0.46	Tand II
38	Dalu Ganjhu & oth.	78	994	1.16	Don II
39	Dalu Ganjhu & oth.	78	999	0.03	Parti Kadim
40	Dalu Ganjhu & oth.	79	1006P	1.11	Tand III
41	Dalu Ganjhu & oth.	79	3357	0.10	Don III
42	Durga Mundari	90	858P	1.00	Tand II
43	Durga Mundari	90	812P	0.50	Tand II
44	Nunu Hazzam	95	1003	0.23	Tand III
45	Nunu Hazzam	95	1009	0.45	Don III
46	Bansingh Mundari	95	1010	0.10	Don III
47	Ghashi Pura	109	3367	1.15	Don III
48	Madan Pura	128	876P	0.58	Tand II
49	Madan Pura	128	877P	0.75	Tand II
50	Madan Pura	128	997	0.34	Don II
51	Mohan Lohar	138	880P	0.47	Tand II
52	Roy Mundari	140	978P	0.16	Tand III
53	Roy Mundari	141	979P	0.33	Tand III
54	Ramdhan Sawansi	149	1126P	1.06	Tand III
55	Ramdhan Sawansi	149	1128	1.23	Tand III
56	Ramdhan Sawansi	149	1129	1.16	Tand III
57	Ramdhan Sawansi	149	1130	0.78	Tand III
58	Ramdhan Sawansi	149	1131	0.32	Don -III
59	Ramdhan Sawansi	149	1132	0.08	Tand III
60	Ramdhan Sawansi	149	1133	0.94	Don -III
61	Ramdhan Sawansi	149	3044P	0.08	Tand II
62	Ramdhan Sawansi	149	3050P	0.07	Don -III
63	Ramdhan Sawansi	149	3053P	0.15	Don III
64	Ramdhan Sawansi	149	3057P	0.50	Don-II
65	Ramdhan Sawansi	149	3353P	0.23	Don-II
66	Ramdhan Sawansi	149	3360	0.37	Don III
67	Ramdhan Sawansi	149	3368	0.67	Tand II
68	Ramdhan Sawansi	149	3370P	1.49	Tand III
69	Rottu Lohar	158	881P	0.32	Don III

R. G. S.
10/11/2018

70	Lakhi Charan Ganju	168	3046	1.22	Don-II
71	Lakhi Charan Ganju	168	3047P	0.10	Don III
72	Lakhi Charan Ganju	168	3048P	0.01	Don III
73	Lakhi Charan Ganju	168	3359	0.35	Don III
74	Lakhi Charan Ganju	168	3360	0.33	Don III
75	Ladu Pahan	177	1027	2.12	Tand III
76	Lilmohan Singh & oth.	185	981	0.43	Tand III
77	Lotan Pura	187	3358	0.06	Don III
78	Sidam Dom	203	985	0.57	Tand III
79	Shiva Mundari	206	3356	0.80	Don III
80	Shibu Sahoo	208	871	0.64	Tand II
81	Sirat Pura	210	846	1.26	Tand III
82	Sirat Pura	210	848	4.43	Tand III
83	Sirat Pura	210	857	0.64	Tand II
84	Sirat Pura	210	850P	0.06	Don - III
85	Sirat Pura	210	863	0.23	Don - III
86	Sirat Pura	210	864P	0.59	Don - III
87	Sirat Pura	210	882P	0.21	Tand II
88	Sirat Pura	210	883	0.02	Tand II
89	Sukhlal Lohar	215	856	0.46	Tand II
90	Sukhlal Lohar	215	859P	0.10	Don - III
91	Sukhlal Lohar	215	861P	0.20	Don - III
92	Sukhlal Lohar	215	862P	0.75	Don - III
93	Sukhlal Lohar	215	865	0.39	Tand II
94	Sukhlal Lohar	215	866	0.63	Tand II
95	Sukhlal Lohar	215	867	0.86	Tand II
96	Sukhlal Lohar	215	1000	0.24	Don III
97	Sukhlal Lohar	215	1014	0.13	Don III
98	Sukhlal Lohar	215	1015	0.42	Don III
99	Sainath Singh	225	1024	1.20	Tand III
100	Hari Sahoo	237	872	0.53	Tand II
101	Kaun Rai Mundari	247	1037P	2.01	Jungle Jhaari
102	Kaun Rai Mundari	247	1038P	0.05	Nadi
103	Gair Majarua Khas	280	830P	1.15	Jungle Paraas
104	Gair Majarua Khas	280	832P	2.89	Nadi
105	Gair Majarua Khas	280	835P	0.07	Jungle Paraas
106	Gair Majarua Khas	280	836	1.07	Jungle
107	Gair Majarua Khas	280	838	6.66	Jungle Paraas

6/1/18
श्री. प्र. वि. वि. वि.
बनारस (वि. वि.)

108	Gair Majarua Khas	280	840	2.21	Jungle Paraas
109	Gair Majarua Khas	280	843	3.67	Jungle Jhaari
110	Gair Majarua Khas	280	844P	8.13	Tongri
111	Gair Majarua Khas	280	845	1.03	Parti Kadim
112	Gair Majarua Malik	280	847	0.26	Jungle Jhaari
113	Gair Majarua Khas	280	851	0.44	Parti Kadim
114	Gair Majarua Khas	280	854	7.50	Tongri
115	Gair Majarua Khas	280	855	0.25	Parti Kadim
116	Gair Majarua Khas	280	870	0.51	Parti Pathar
117	Gair Majarua Khas	280	980P	1.25	Tongri
118	Gair Majarua Khas	280	982	0.19	Parti Kadim
119	Gair Majarua Khas	280	984	0.03	Parti Kadim
120	Gair Majarua Khas	280	990	0.06	Parti Kadim
121	Gair Majarua Khas	280	991	0.15	Parti Pathar
122	Gair Majarua Khas	280	992	0.13	Parti Pathar
123	Gair Majarua Khas	280	993	0.08	Parti Kadim
124	Gair Majarua Khas	280	995	0.01	Parti Kadim
125	Gair Majarua Khas	280	996	0.38	Parti Kadim
126	Gair Majarua Khas	280	998	0.06	Parti Kadim
127	Gair Majarua Khas	280	1012	0.04	Parti Kadim
128	Gair Majarua Khas	280	1023	1.56	Jungle Jhaari
129	Gair Majarua Khas	280	1040P	4.06	Nadi
130	Gair Majarua Khas	280	1125P	0.60	Parti Kadim
131	Gair Majarua Khas	280	1138P	0.07	Parti Kadim
132	Gair Majarua Khas	280	3362	0.03	Parti Kadim
133	Gair Majarua Khas	280	3363	1.10	Parti Kadim
134	Gair Majarua Khas	280	3364	0.81	Parti Pathar
135	Gair Majarua Khas	280	3365	1.16	Parti Kadim
136	Gair Majarua Khas	280	3366	0.05	Parti Pathar
137	Gair Majarua Khas	280	3373P	0.05	Pahaar
138	Gair Majarua Aam	281	850	0.64	Raasta
139	Gair Majarua Aam	281	3372P	0.11	Raasta
140	Bakast Mundari	290	1020	1.64	Tand III
141	Lal Mohan Singh	292	874	0.90	Tand III
142	Bakast Mundari (Satrudhan Singh)	293	986P	0.35	Tand III
143	Bakast Mundari (Satrudhan Singh)	293	988P	0.50	Tand III
144	Sidam Dom	294	1016	0.64	Don III
145	Sidam Dom	294	1017	0.32	Tand III



 19/11/18

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146	Sidam Dom	294	1018	0.06	Parti kadim
147	Bakast Mundari (Sainath Singh)	296	1025	0.99	Tand II
148	Bakast Mundari (Sainath Singh)	296	1025	1.12	Tand II
149	Bakast Mundari (Raghunath Singh)	299	1022	1.86	Tand II
150	Bakast Mundari (Ladu Babu)	302	1028P	2.30	Tand III
151	Bakast Mundari (Ladu Babu)	302	1028/4094	0.84	Tand III
152	Bakast Mundari (Ladu Babu)	302	1030	0.39	Tand III
153	Bakast Mundari (Ladu Babu)	302	1032P	0.69	Tand II
154	Bakast Mundari (Ladu Babu)	302	1035P	0.05	Don -III
155	Bakast Mundari (Jivlal Singh)	305	1007P	1.30	Tand III
156	Bakast Mundari (Jivlal Singh)	305	1029	1.18	Tand III
157	Bakast Mundari (Jivlal Singh)	305	1033P	0.55	Tand III
158	Bakast Mundari (Jivlal Singh)	305	1136P	0.40	Tand III
159	Bakast Mundari (Jivlal Singh)	305	1141P	0.02	Don -III
160	Bakast Mundari (Puhup Singh)	321	852	0.80	Tand III
161	Bakast Mundari (Diwakar Singh)	324	839	1.21	Tand III
162	Bakast Mundari (Diwakar Singh)	324	1021	0.83	Tand III
163	Bakast Mundari (Banmali Singh)	328	873	0.54	Tand III
164	Bakast Mundari (Limohan Singh)	330	1019	0.76	Tand III
165	Bakast Mundari (Satrudhan Singh)	333	983	0.58	Tand III
166	Bakast	351	3055P	0.10	Don III
167	Madhu Hazam	352	3056P	1.67	Don-II
168	Madhu Hazam	352	3058P	0.01	Don III
Total Area (Acre)				129.78	
Total Area (Ha)				52.521	


 अभिलेखिकारी
 पंचायत (राज्य)

(6)

Name of the Village : KOTHADIH
 Thana : TAMAR
 Thana No. : 155
 Name of the Tahasil : TAMAR
 District : RANCHI

Sl. No.	Name of the Tenant	Khata No.	Plot No.	Area in acre	Type of Land
1	Gaur Puraan	1	797	0.33	Don III
2	Gaur Puraan	1	795	0.47	Don III
3	Gaur Puraan	2	799	1.19	Tand II
4	Gaur Puraan	2	798	0.59	Tand II
5	Jhadu Puraan	4	819	2	Parti Kadim
6	Jhadu Puraan	4	796	0.3	Tand II
7	Radhu Puraan	5	803P	0.24	Parti Kadim
8	Radhu Puraan	5	802	0.85	Don III
9	Radhu Puraan	5	801	0.68	Parti Kadim
10	Radhu Puraan	5	800	0.65	Tand II
11	Sehja Mahto	6	794P	1.42	Don III
12	Ramdhar Singh & Oth.	7	820	0.32	Tand II
13	Haakim Mahto	27	886P	0.25	Tand II
14	Gair Mazarua Aarn	29	888P	0.2	Raasta
15	Kartik Shavanshi	52	861	0.35	Don II
16	Kartik Shavanshi	52	860P	0.41	Don III
17	Kartik Shavanshi	52	859P	0.22	Don II
18	Kartik Shavanshi	52	832P	0.01	Don II
19	Kartik Shavanshi	52	831P	0.1	Don II
20	Kartik Shavanshi	52	830P	0.4	Don III
21	Kartik Shavanshi	52	829P	0.57	Don II
22	Sitaram Mahto	52	817	0.66	Don II
23	Kartik Shavanshi	56	828	0.13	Don II
24	Kartik Shavanshi	56	827P	0.15	Don III
25	Kartik Shavanshi	56	789P	0.11	Don II
26	Kartik Shavanshi	65	834P	0.14	Don II
27	Banatu Mahto	67	826	0.47	Don III
28	Banatu Mahto	67	825P	0.4	Don II
29	Hari Singh	67	824P	0.03	Don II
30	Bashu Mundari	70	814	0.93	Don III
31	Bashu Mundari	70	811P	0.11	Don II


 26/11/18
 श्रीमान्
 प्रमाणित

(7)

32	Bashu Mundari	70	808	0.85	Tand II
33	Ramchandra Singh	76	806	0.43	Tand II
34	Ramchandra Singh	76	805	0.18	Tand II
35	Banwa Ram Mahto	84	823	0.13	Parti Kadim
36	Banwa Ram Mahto	84	822	1.32	Don II
37	Madhnath Mundari	105	813P	0.15	Parti Kadim
38	Madhnath Mundari	105	812P	1.01	Don III
39	Madhnath Mundari	105	809P	1.17	Tand II
40	Kartik Shavanshi	125	790P	0.38	Don III
41	Kartik Shavanshi	156	791P	0.1	Don II
42	Gair Mazarua Malik	165	807P	10.24	Parti Kadim
43	Gair Mazarua Malik	165	804P	0.08	Parti Kadim
44	Gair Mazarua Malik	165	352P	0.4	Parti Kadim
45	8/4 shemilari	166	821	0.42	Tand II
46	Gair Mazarua Malik	166	815	0.27	Baandh
47	Gair Mazarua Malik	166	815	1.59	Baandh
48	Gair Mazarua Malik	166	774P	1.02	Rasta
49	Gair Mazarua Malik	166	818P	2.82	Don II
50	Jagan Mahto	170	858P	0.03	Don II
51	Madhu Mahto	174	866P	0.73	Tand II
52	Madhu Mahto	174	865P	0.07	Tand II
53	Madhu Mahto	174	864P	0.49	Tand II
54	Madhu Mahto	174	863	0.36	Tand II
55	Madhu Mahto	174	862P	0.44	Tand II
56	Raghu Purnan	175	867P	0.65	Tand II
Total Area (Acre)				40.01	
Total Area (Ha)				16.192	


 अचल अधिकारी
 तमाङ (रांची)

(8)

Name of the Village : KUTACHAULI
 Thana : TAMAR
 Thana No. : 153
 Name of the Tahasil : TAMAR
 District : RANCHI

Sl. No.	Name of the Tenant	Khata No.	Plot No.	Area in acre	Type of Land
1	Meghnath Singh	1	51P	1.44	Don II
2	Meghnath Singh	1	58P	0.42	Don II
3	Meghnath Singh	1	61	0.31	Tand II
4	Meghnath Singh	1	62	0.74	Don II
5	Meghnath Singh	1	63	0.46	Tand II
6	Meghnath Singh	1	104P	0.03	Tand II
7	Meghnath Singh	1	111P	0.03	Tand II
8	Jagamath Singh	1	115P	0.28	Don II
9	Sohan Mundari	2	4P	0.7	Don II
10	Sohan Mundari	2	5P	0.04	Tand II
11	Sohan Mundari	2	6P	0.45	Tand II
12	Sohan Mundari	2	75P	0.41	Tand II
13	Sohan Mundari	2	76P	0.38	Tand II
14	Budhan Singh	3	79P	0.17	Tand II
15	Jagamath Munda	5	57P	0.13	Tand II
16	Jagamath Munda	5	59P	1.42	Tand II
17	Jagamath Munda	5	66P	0.44	Don II
18	Indar sai & Late Mundari	8	2/P	3.29	Tand II
19	Jagamath Munda	10	65P	0.24	Parti Kadim
20	Gair Majarua Khas	14	1	0.21	Nala
21	Gair Majarua Khas	14	3P	2.11	Parti Kadim
22	Gair Majarua Khas	14	60	0.96	Parti Kadim
23	Gair Majarua Khas	14	64	1.5	Parti Kadim
24	Gair Majarua Aam	15	102P	0.04	Raasta
Total Area (Acre)				16.21	
Total Area (Ha)				6.56	

6/6/18
 अचान जलिका
 जमाद (सी.पी.)

Annexure – IIIC(i)

**Approval letter of Mining Plan approved by Indian Bureau of
Mines vide letter no RAN/RNC/Gold/MP-14/2018-19 dated
28.11.2018.**

Government of India
Ministry of Mines
Indian Bureau of Mines

Office of the Regional Controller of Mines

No.: RAN/RNC/Gold/MP-14/2018-19,

318/B, Road No.-3,
Ashok Nagar, Ranchi - 834002
Date: 28/11/2018

To: **Shri M.D. Rastagi,**
Director & Nominated Owner,
M/s Rungta Mines Ltd.,
Rungta Office, Main Road,
Barbil - 758035.
Dist. - Keonjhar (Odisha).
E-mail: bbloffice@runtamines.com / rmlbd@runtamines.com

Sub.: Approval of Mining Plan alongwith Progressive Mine Closure Plan in respect of PARASI Gold deposit over an area of 75.273 hectares in village- Parasi, Kutachouli & Kothadih, Taluka-Tamar, District- Ranchi, State-Jharkhand submitted under Rule 16(1) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016.

Ref: Your letter ref. no.: (1) RML/BD/Parasi_Comr/18-19/207, Dated 10/07/2018,
(2) RML/BD/Parasi_Comr/18-19/348, Dated 13/10/2018 and

This office letter no.: राँची/राँची/गोल्ड/एमपी-14/2018-19, दिनांक: 05/10/2018.

Sir,

In exercise of the powers conferred by the Clause (b) of Sub-section (2) of Section 5 of Mines and Minerals (Development and Regulation) Act, 1957 read with Government of India Order no.: S.O.1857(E), dated 18/05/2016, I hereby approve the above said Mining Plan in respect of PARASI Gold deposit over an area of 75.273 hectares located in village- Parasi, Kutachouli & Kothadih, Taluka-Tamar, District- Ranchi, Jharkhand state, submitted under rule 16(1) of Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016. This approval is subject to the following conditions: -

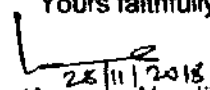
- (i) The mining plan is approved without prejudice to any other laws applicable to the mine/area from time to time whether made by the Central Government, State Government or any other authority and without prejudice to any order or direction from any court of competent jurisdiction.
- (ii) The proposals shown on the plates and/or given in the document is based on the lease map/sketch submitted by the applicant/lessee and is applicable from the date of approval.
- (iii) It is clarified that the approval of aforesaid mining plan does not, in any way, imply the approval of the Government in terms of any other provision of the Mines & Minerals (Development & Regulation) Act, 1957 or the Minerals (Other than Atomic and Hydrocarbons Energy Minerals) Concession Rules, 2016 and any other laws including Forest (Conservation) Act, 1980, Environment (Protection) Act, 1986 or the rules made thereunder, Mines Act, 1952 and Rules & Regulations made thereunder.
- (iv) Indian Bureau of Mines has not undertaken verification of the mining lease boundary on the ground and does not undertake any responsibility regarding correctness of boundaries of the leasehold shown on the ground with reference to lease map & other plans furnished by the applicant/lessee.

Contd. to2/-

No.: RAN/RNC/Gold/MP-14/2018-19.

- (v) The lessee should confirm the correctness of the category of the land and submit any deviation incurred after thoroughly consultation with the State Govt. and confirming this according to the undertaking given therein
- (vi) The DGPS carried over the lease area as per the geological report and clarification given vide letter No. ख.नि.(रॉची/गोल्ड)-18/2016/2221/एम, दिनांक 27.08.2018 by the Director of Mines, Government of Jharkhand, hence mining Plan is approved over an area of 75.273 hectares only.
- (vii) At any stage, if it is observed that the information furnished, data incorporated in the document are incorrect or misrepresent facts, the approval of the document shall be revoked with immediate effect.
- (viii) The CCOM circular no. 2/2010 and its addendum dated 06.04.2010 should be complied within 3 (three) months from the date of approval of Mining Plan.
- (ix) The detailed exploration (G1 level) over the entire potentially mineralised area under the mining lease shall be carried out within a period of five years of lease execution as required under sub rule 4 of Rule 12 of MCDR, 2017.
- (x) An Environmental monitoring cell should be constituted to carry out regular monitoring of environmental parameters (Air, Water & Noise level) and quarterly report of Environmental monitoring should be submitted to the Regional Controller of Mines, Indian Bureau of Mines, Ranchi. Further, daily monitoring report should be displayed on display board near mine/mine office.
- (xi) The lessee should obtain NOC from Pollution Control Board and submit the same to this department. The lessee should not cause any environment pollution to the nearby surroundings and human habitats. Mining should be carried out in a sustainable manner under provisions of MCDR, 2017.
- (xii) The lessee should take relevant permission from State Government to procure the quantity of water from nearby sources and intimate the same to Indian Bureau of Mines.
- (xiii) If the approval conflicts with any other law or court order/direction under any statute, it shall be revoked immediately.

Encl.: One copy of approved
Mining Plan.

Yours faithfully

28/11/2018
(Anupam Nandi)
Regional Controller of Mines

Copy forwarded for information to: -

1. The Director (Mines), Directorate of Mines, Government of Jharkhand, 3rd Floor, Yojna Bhawan, Jharkhand Mantralaya, Doranda, Ranchi-834002 along with a copy of approved Final Mine Closure Plan.
2. Dr. S.K. Myageri, Qualified Person, "Sri Mata" Shivanand Nagar, Kalasapur Road, Gadag - 582 103 (Karnataka). E-mail: skmyageri@gmail.com

(Anupam Nandi)
Regional Controller of Mines

Annexure – IIIC(ii)

Copy of the acknowledgement slip generated against the online application for Diversion Proposal of Forest Land vide proposal no. FP/JH/MIN/37423/2018 and acknowledgement vide e-mail dated 02.01.2019.



hirak mazumder <rml.forest@gmail.com>

Email Alert From System Administrator of Online Submission and Monitoring of Forests Clearances Proposal(OSMFCP) portal

monitoring-fc@nic.in <monitoring-fc@nic.in>
To: rml.forest@gmail.com
Cc: monitoring-fc@nic.in

Wed, Jan 2, 2019 at 6:21 PM

A proposal seeking prior approval of Central Government under the Forest (Conservation) Act 1980, as per the details given below, has been examined by the Nodal Officer, Forest (conservation) Act, 1980, Government of Jharkhand and has been found to be complete in all respect.

1. **Proposal No.** : FP/JH/MIN/37423/2018
DIVERSION OF 11.959 HECTARES (29.55 ACRES) FOREST LAND FALLING WITHIN THE MINING LEASE AREA OF 75.273 HECTARES PROPOSED FOR GRANT OF PARASI GOLD DEPOSIT TO M/S RUNGTA MINES LIMITED.
2. **Proposal Name** : HECTARES PROPOSED FOR GRANT OF PARASI GOLD DEPOSIT TO M/S RUNGTA MINES LIMITED.
3. **Category of the Proposal** : Mining
4. **Date of Submission** : 03/12/2018
5. **Name of the Applicant with Contact Details**
 - Name** : BRAJ KISHORE
 - Mobile No.** : 9431704517
 - State** : Jharkhand
 - District** : West Singhbhum
 - Pincode** : 833201
6. **Area Applied (ha.)** : 11.959

The Proposal is being forwarded to concerned DFOs and DCs for further processing.

(System Administrator)

*** This is a system generated email, please do not reply. ***

Annexure – IIIC(iii)

**Copy of application for Terms of Reference (TOR) for
Environmental Clearance for Environmental Clearance to the
State Level Environment Impact Assessment Authority (SEIAA),
Ranchi, Jharkhand through online portal vide acknowledgement
no SIA/ JH/ MIN/ 30477/ 2018 dated 24.12.2018.**



hirak mazumder <rml.forest@gmail.com>

Acknowledgement Slip for TOR application

monitoring-ec@nic.in <monitoring-ec@nic.in>

Mon, Dec 24, 2018 at 1:11 PM

To: rml.forest@gmail.com

Cc: monitoring-ec@nic.in

Acknowledgement Slip for TOR

This is to acknowledge that the proposal has been successfully uploaded on the portal. The proposal shall be examined by MS of SEIAA to ensure that required information has been submitted. An email will be sent for seeking additional information, if any, within 5 working days. Once verified, an acceptance letter shall be issued to the project proponent.

Following should be mentioned in further correspondence

1. **Proposal No.** : SIA/JH/MIN/30477/2018
2. **Category of the Proposal** : Non-Coal Mining
3. **Project/Activity applied for** : 1(a) Mining of minerals
2(b) Mineral beneficiation
4. **Name of the proposal** : Parasi Gold Deposit
5. **Date of submission for TOR** : 24 Dec 2018
6. **Name of the Project proponent along with contact details**
 - a) **Name of the proponent** : RUNGTA MINES LTD
 - b) **Mobile No.** : 9431704517
 - c) **State** : Mizoram
 - d) **District** : West Singhbhum
 - e) **Pincode** : 833201

Annexure – IIID

Letter of the Divisional Forest Officer, Khunti Forest Division for certification of Land Schedule and Maps for the Forest Land lies within the boundary of Proposed Lease of the Parasi Gold Deposit and the Certified Land Schedule of the Forest Land



कार्यालय : वन प्रमण्डल पदाधिकारी, खूँटी वन प्रमण्डल, खूँटी।

E-mail : dfo-khunti@gov.in



जहाँ है वनप्रमण्डल ।
वहाँ है सुशासन ।

झारखण्ड सरकार

पत्रांक :- 2502 / दिनांक :- 14/12/2018

सेवा में,

श्री बी० के० झा०,
सहायक, उपाध्यक्ष (बी०डी०)
रुंगटा माईन्स लिमिटेड
रुंगटा हाउस, चाईबासा-833201
झारखण्ड।

विषय :- रुंगटा माईन्स लिमिटेड द्वारा प्रस्तावित स्वर्ण ब्लॉक हेतु भूमि का सत्यापन के संबंध में।

प्रसंग :- आपका पत्रांक-RML/30/Parasi/18-19, दिनांक-03.09.2018

महाशय,

उपर्युक्त विषयक संबंध में सूचित करना है कि आपके प्रसंगाधीन पत्र द्वारा वन संरक्षण अधिनियम 1980 के तहत विषयक कार्य हेतु प्रस्तावित भूमि एवं वन भूमि की विवरणी तथा वनभूमि चिह्नित नक्शा को स्थलीय एवं अभिलेखीय जाँच वन क्षेत्र पदाधिकारी, तमाड़ से कराया गया। इस क्रम में वन क्षेत्र पदाधिकारी, तमाड़ वन प्रक्षेत्र के पत्रांक-236 दिनांक-28.11.2018 द्वारा समर्पित प्रतिवेदन के अनुसार दिनांक-20.11.2018 को वन क्षेत्र पदाधिकारी, तमाड़ वन प्रक्षेत्र द्वारा रुंगटा माइन्स के मैनेजर श्री अभिजीत बक्शी तथा मैनेजर भुगर्व विज्ञानी श्री सुमोजित बैनर्जी एवं अधिनस्थ वनकर्मियों के साथ संयुक्त स्थलीय जाँच किया। वन क्षेत्र पदाधिकारी के प्रतिवेदन के अनुसार सीमाकित स्थल का GPS Reading सही है। उक्त परियोजना हेतु प्रस्तावित अधिसूचित वनभूमि का रकबा 10.89 एकड़ है तथा जंगल-झाड़ी भूमि 18.66 एकड़ है। नक्शे पर दर्शाए गए प्रस्तावित स्थल को वन क्षेत्र पदाधिकारी, तमाड़ वन प्रक्षेत्र द्वारा जाँचोपरान्त सत्यापित किया गया है।

अतः वन क्षेत्र पदाधिकारी, तमाड़ के प्रतिवेदन के आधार पर प्रस्तावित भूमि, जिसे नक्शा पर दर्शाया गया है, को सत्यापित कर दो प्रतियों में इस पत्र के साथ संलग्न कर मूल रूप में भेजी जा रही है।

अनु०-यथोक्त।



आपका विश्वासी

वन प्रमण्डल पदाधिकारी,
खूँटी वन प्रमण्डल खूँटी।

LAND SCHEDULE OF THE FOREST LAND PROPOSED FOR DIVERSION
FOR
PARASI GOLD BLOCK OF M/s RUNGTA MINES LIMITED

Name of the Village : PARASI

Thana : TAMAR

Thana No. : 151

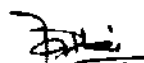
Name of the Tahasil : TAMAR

District : RANCHI

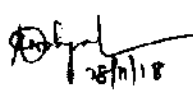
LAND SCHEDULE OF THE FOREST AREA

Sl. No.	Name of the Tenant	Khata	Plot	Area In acre	Type of Land
		No.	No		
1	Gair Majarua Khas	280	830P	1.15	Jungle Paraas
2	Gair Majarua Khas	280	835P	0.07	Jungle Paraas
3	Gair Majarua Khas	280	836	1.07	Jungle
4	Gair Majarua Khas	280	838	6.66	Jungle Paraas
5	Gair Majarua Khas	280	840	2.21	Jungle Paraas
6	Gair Majarua Khas	280	843	3.67	Jungle Jhaari
7	Gair Majarua Khas	280	844P	4.96 PF	Tongri
8	Gair Majarua Malik	280	847	0.26	Jungle Jhaari
9	Gair Majarua Khas	280	854	5.88 PF	Tongri
10	Gair Majarua Khas	280	1023	1.56	Jungle Jhaari
11	Kisun Rai	247	1037P	2.01	Jungle Jhaari
12	Gair Majarua Khas	280	3373P	0.05 PF	Pahaar
Total Area (Acre)				29.55	
Total Area (Ha)				11.959	

For Rungta Mines Limited


 (Authorized Signatory)

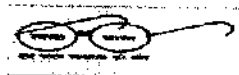
B. K. JHA
 SST VICE PRESIDENT (BD)


 RANGE FOREST OFFICER
 TAMAR FOREST RANGE, TAMAR


 वन परमंडल पदाधिकारी
 खूँटी वन प्रमण्डल।

Annexure – IV

**Survey of India, Govt. of India letter for providing the Coordinates
of GTS point**

Authenticated GCP Triangulation Point by Survey of India

भारतीय सर्वेक्षण विभाग
SURVEY OF INDIA

दूरध्वनि / Tel : 0651 - 2482789, 2481386

फैक्स / Fax : 0651 - 248278

ईमेल / E-mail : jhargdc.soi@gmail.com



झारखण्ड भू-स्थानिक आकाश कक्षा

JHARKHAND GEOSPATIAL DATA CENTRE

डोरान्डा, राँची / DORANDA, RANCHI-834002

राज्य : JHARKHAND

दिनांक : Date : 01/01/2016

पत्रिका / No : 5/ 40-L-3

To

Shri Trikoohan Mohanta
For Theotech Project Services Pvt. Ltd
135, Mohanmadpur, R.K. Puram
New Delhi-110068

Sub: Supply of co-ordinates of Triangulated stations-Regarding.

Ref: i) Your letter No. Nil., dated 29-12-2015
ii) Your letter No. Nil., dated 13-01-2016.

Sir,

As requested vide your letter quoted under reference above, the coordinates of the following 3 Trig points out of 5 Trig points (also falling in OSM sheet Nos F45B12 & F45H2 and descriptions in Annexure) are being supplied herewith for further necessary action at your end.

List of Points				Latitude	Longitude	Remarks
S. No.	Sheet No.	Square No.	Name of Station			
1	F45B12	F 6	Palas, J.S.	22° 51' 14.11"	86° 42' 21.11"	Coordinates are in WGS-84
2	F45H2	F 6	Pokamiribhe	22° 51' 10.00"	86° 14' 19.80"	
3	F45H2	F 6	Central OSM	22° 51' 23.80"	86° 14' 19.80"	

The supplied data is classified in nature, and therefore should be handled by authorized persons only. The data should not be used for any other purpose except as specified in your indent. The description of the points is given in annexure attached.

The coordinates of remaining 2 Trig points falling in Sheet Nos F45B2 & F45H2 will be supplied after it is made available at our end. The exact date for supply of remaining Trig points cannot be given. However, it may take more than a fortnight.

Thanking you.

Encl:- Annexure

Yours Sincerely,

M.S. BENDAY
Officer Surveyor
Technical Officer

For Director, Jharkhand GDC, Ranchi

Annexure

1. Parasi h: The station is situated on the high peak of a hill called Parasi Pahar about 1 mile North West of village Parasi about 1.5 miles South of village Tempur and about 6 miles South East of Jangar.
2. Pokamba h: It is a new station. The mark is 6" deeply engraved on a rock in situ. It is situated on a low hill top just 1/2 mile East of village Pokamba. Other villages are village Doko is at about 1 mile SW, village Gondra is at about 1 mile West and Oranga forest rest house is at about 6 miles NE. Galkera RS is about 15 miles South East. An unmetalled Road leading from Galkera RS to Oranga village passes by West foot of the hill.
3. C End of HSB: The mark is 6" deeply engraved on boulder 3m high from ground level. A platform of stones is constructed around the mark of dimensions 2.50x2.50 sqm and high 0.3 m. It is situated on the highest point of a small conical top just 1/2 mile NE of village Gondra. Kalkera RS is about 1/2 mile East of the station hill. Other villages are village Gondra is about 1 mile South East, village Hara Kasai is about 2 miles North and village Pokamba is at about 1/2 mile due East.


(M. S. CHAUDHARY)Officer Surveyor
Technical Officer

For Director, Jharkhand G.D.C., Ranchi

Annexure – V

**National Remote Sensing Centre, Hyderabad Invoice for
Procurement of Satellite Imagery of LISS IV & CARTOSAT 2**



NATIONAL REMOTE SENSING CENTRE

Indian Space Research Organization

Dept. of Space, Govt. of India

Balanagar, Hyderabad-500037

Phone:040-23884423 Fax:040-23884424

email:sales@nrsc.gov.in website:www.nrsc.gov.in

TAX INVOICE

Order No: 19-57981
Account No: 04-0684400
Bill No: 1819-3194
Bill Date: 07-Feb-2019

GST IN NO of NRSC: 36AAATN3989R1ZK
NDC Ref No: NDC/STD/1819-3194/0684400
User Ref:
Ref Date:

Billing Address

KUNDAN DEO SINGH
Jn Manager

GEMS PROJECTS PVT LTD
1236/2 LAGPATNAGAR NEAR LALA RAJPAT RAI SCHOOL
PUNDAG
RANCHI
Jharkhand
INDIA
834004
kundan@gemsgroup.in
06512902588
6512242513

TAN No: -NA-

PAN No: -NA-

State Code: 20

GSTIN No: -NA-

Description of Goods: Surface Surveying and Map-Making services

HSN/SAC Code: 998344

Shipping Address

KUNDAN DEO SINGH
Jn Manager

GEMS PROJECTS PVT LTD
1236/2 LAGPATNAGAR NEAR LALA RAJPAT RAI SCHOOL, PUNDAG
RANCHI, 834004
Jharkhand, INDIA

Place of supply:RANCHI

State Code: 20

GSTIN No: -NA-

Scene Wise Billing

Pri	ItemNo	ProductCode	Sat-Sen	SceneSpec*	Dop	Disp Mode	Disp Date	Qty	Amount
N	1-1	STUC000TD	RS2-LIS4	105-56-B	13-Jan-2018	FTP	14-Jan-2019	1	10470
N	1-2	STUC000TD	RS2-LIS4	105-56-B	13-Jan-2018	FTP	14-Jan-2019	0	0
N	1-3	STUC000TD	RS2-LIS4	105-56-B	13-Jan-2018	FTP	14-Jan-2019	0	0
N	2-1	STUC000TD	P5-PANA	576-291	02-Dec-2017	FTP	14-Jan-2019	1	6450

Total : Rs 16920

Total quantity : 2

FTP Discount(-) : Rs 846

Taxable Value: Rs 16074

CGST @9%: Rs 0

SGST @9% : Rs 0

IGST @18% : Rs 2893.32

Total invoice value (taxable value+GST): Rs 18967

In words: Rupees Eighteen Thousand Nine hundred Sixty Seven only

Tax is payable on Reverse Charge basis by the Recipient: No

Opening Balance: Rs 63850

Closing Balance: Rs 44883

NDC Member
For Group Head, NDC

*Scene Specification : Path-Row-Sub(Optional) / Orbit-Session-Segment-Strip-Scene - MapSheet(Optional)

Note: Volume discount, FTP discount and Priority charges are computed on the actual price. Orders for which both Volume and FTP discounts are applicable, FTP discount is computed on the volume discounted amount.

Product code legend

STUC000TD - Standard-UTM-Cubic Convolution-Digital-Orthorectified -GeoTIFF-FTP

This is a computer generated bill and does not require signature

Annexure – VI

Raw DGPS observation data by Static Method for Establishment of Base Station

Project

Project name: **STATIC DATA**
Project folder: **E:\RUNGTA GOLD MINES\ALL DATA**
Creation time: **05-02-2019 10:57:30**
Created by: **RAJAT KUMAR KHUNTIA** GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: **Meters**
Angular unit: **DMS**
Projection: **UTMNorth-Zone_45 : 84E to 90E**
Datum: **WGS84**
Geoid:
Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

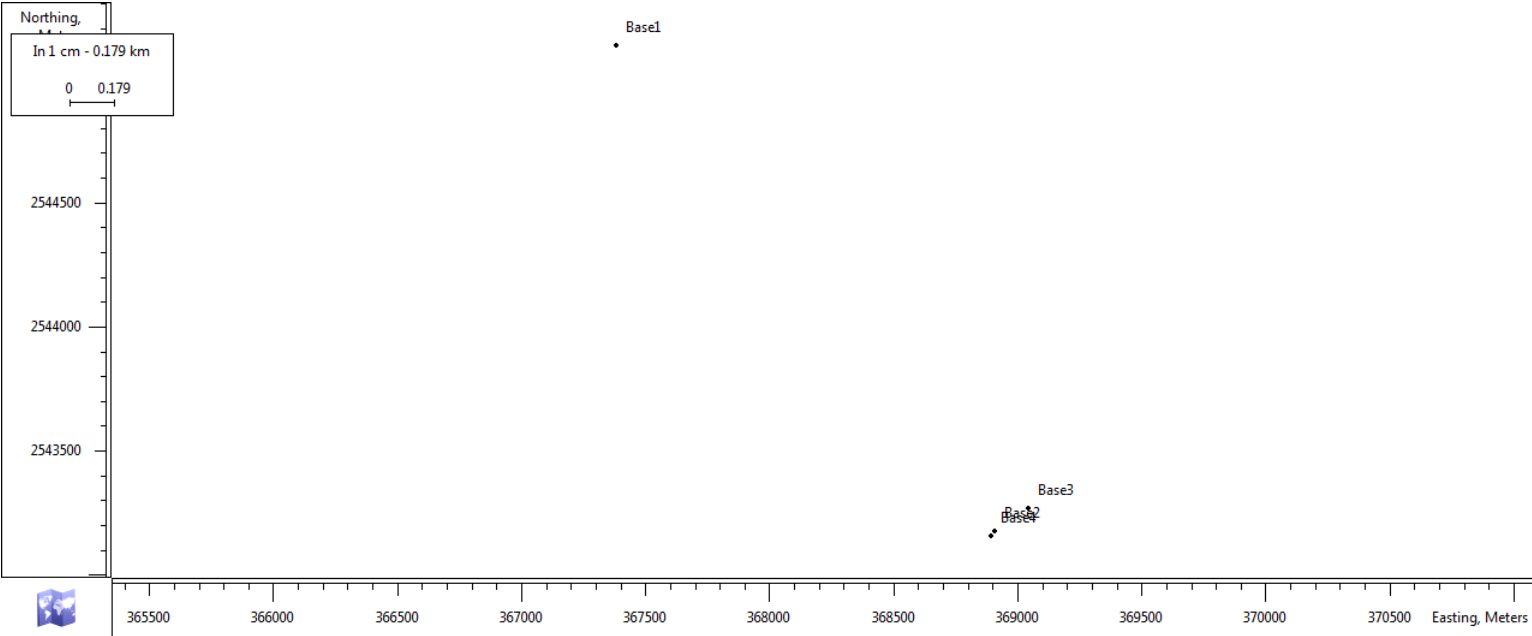
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: **RAJAT KUMAR KHUNTIA** SR. SURVEYOR - RAJAT KUMAR KHUNTIA

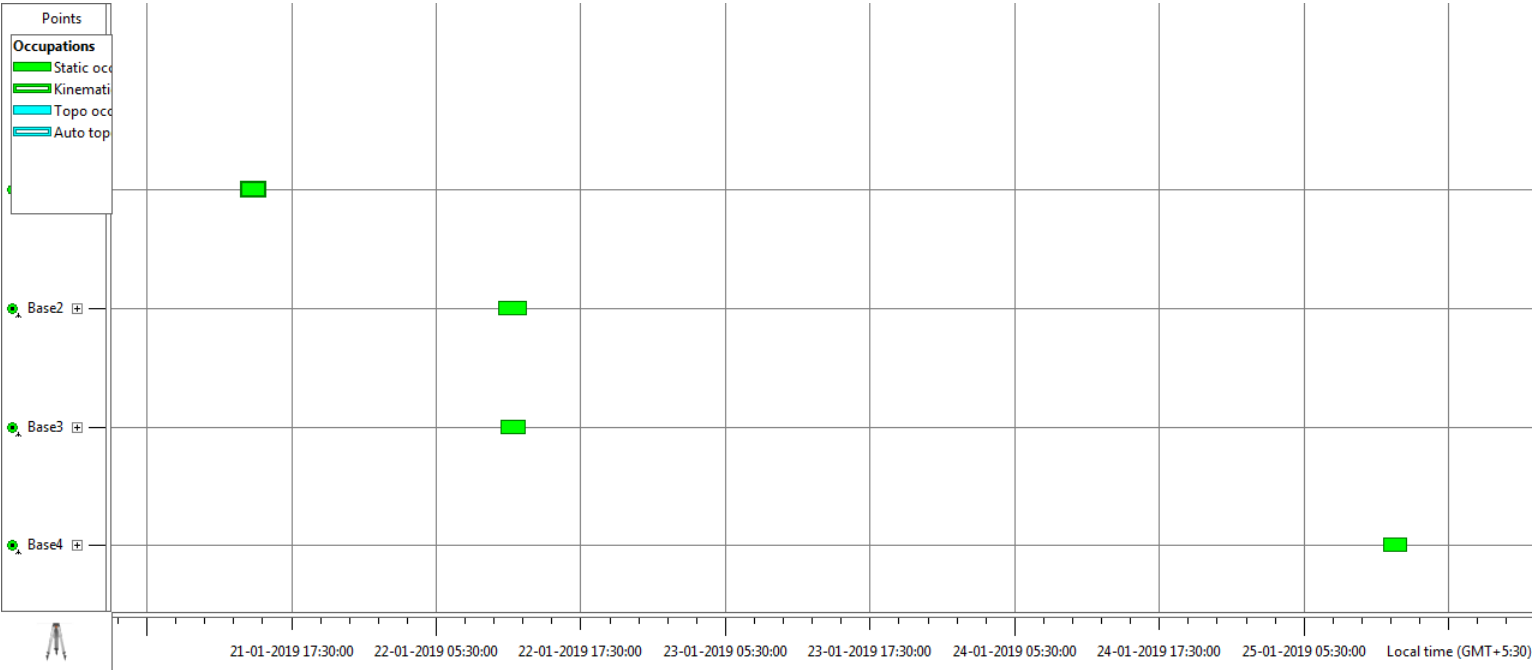
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height
Base2-Base3	95.334	135.111	-14.003	0.001	0.001	-137.704	-40.435	83.391	54°17'36.7194"	-4°50'24.1577"	165.987	22-01-2019 10:51:00	02:09:15	Fixed	1551	12	4	1.631	0.779	1.433	Adjusted	0.001	GRX2	1.406	Slant	GRX2	1.482	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
Base1	Base1	21-01-2019 13:22:55	02:01:20	Static	Q002CX5LQ8I	5000	1453	0.001	0.001	0.001	0.001	Topcon
Base2	Base2	22-01-2019 10:41:20	02:22:45	Static	Q1N98C1FKSW	5000	1712	0.001	0.001	0.002	0.001	Topcon
Base3	Base3	22-01-2019 10:51:00	02:09:15	Static	Q002CX5LQ8I	5000	1551	0.001	0.001	0.001	0.002	Topcon
Base4	Base4	25-01-2019 12:04:35	02:00:20	Static	Q1N98C1FKSW	5000	1441	0.001	0.001	0.000	0.001	Topcon

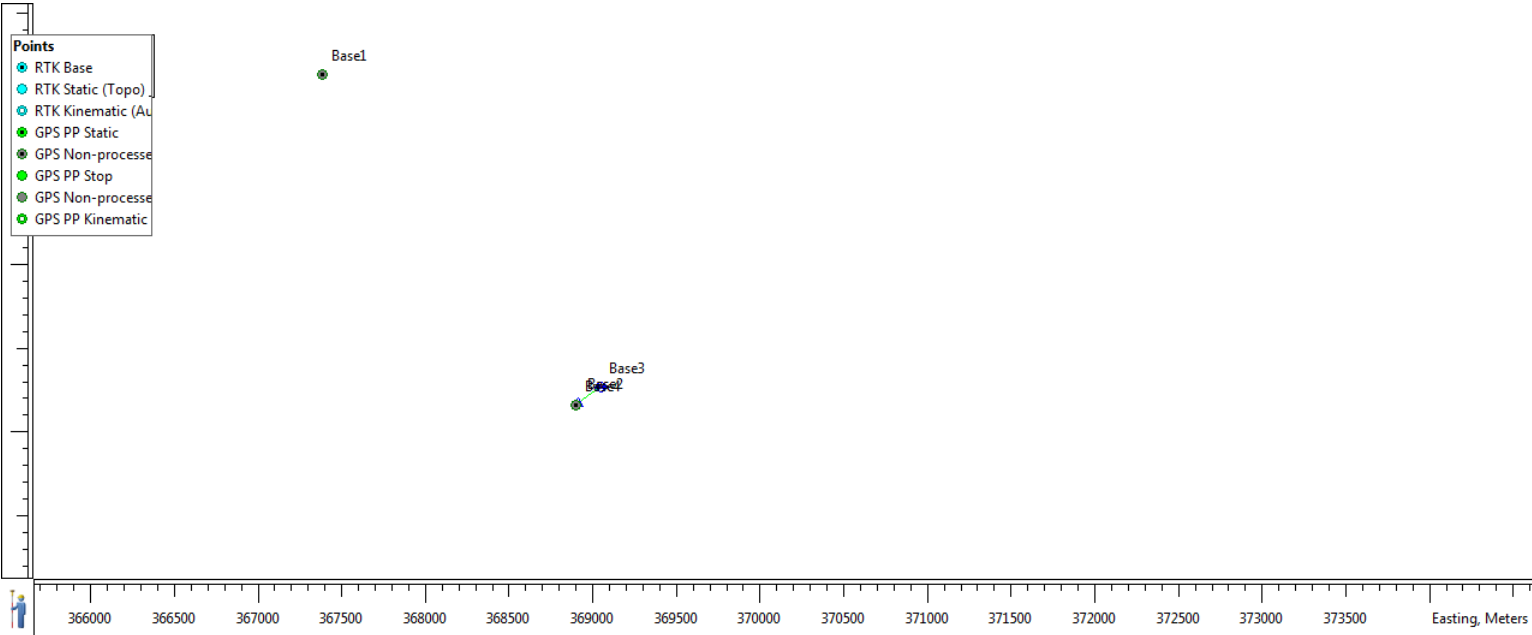
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base1	2545131.368	367380.790	23°00'33.36995"N	85°42'21.27375"E	
Base2	2543174.480	368910.561	22°59'30.18374"N	85°43'15.60167"E	
Base3	2543269.814	369045.672	22°59'33.32156"N	85°43'20.31723"E	
Base4	2543157.852	368895.093	22°59'29.63871"N	85°43'15.06354"E	



Annexure – VII

**Raw DGPS observation data by STATIC Method for Geo
Referencing of boundary of Parasi Gold Deposit**

Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RUNGTA GOLD MINES\121
Creation time: 05-02-2019 12:48:04
Created by: GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTMNorth-Zone_45 : 84E to 90E
Datum: WGS84
Geoid: EGM08
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

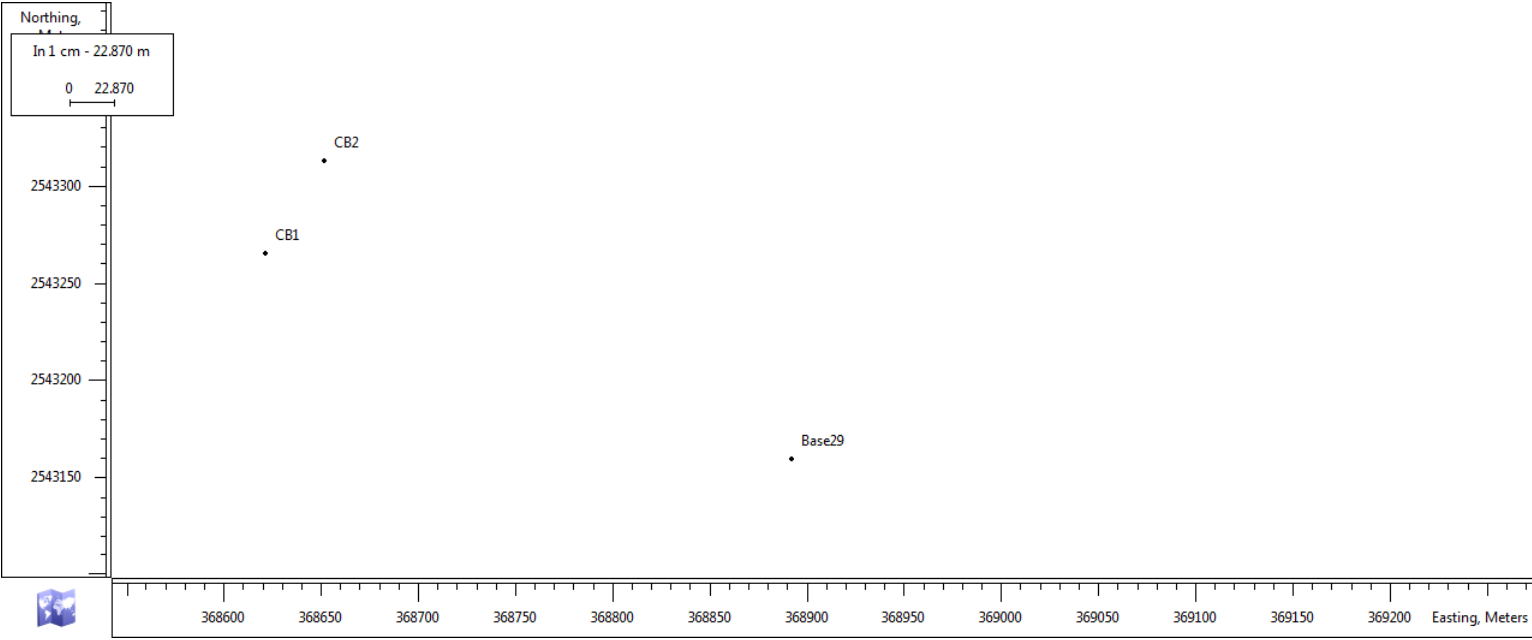
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

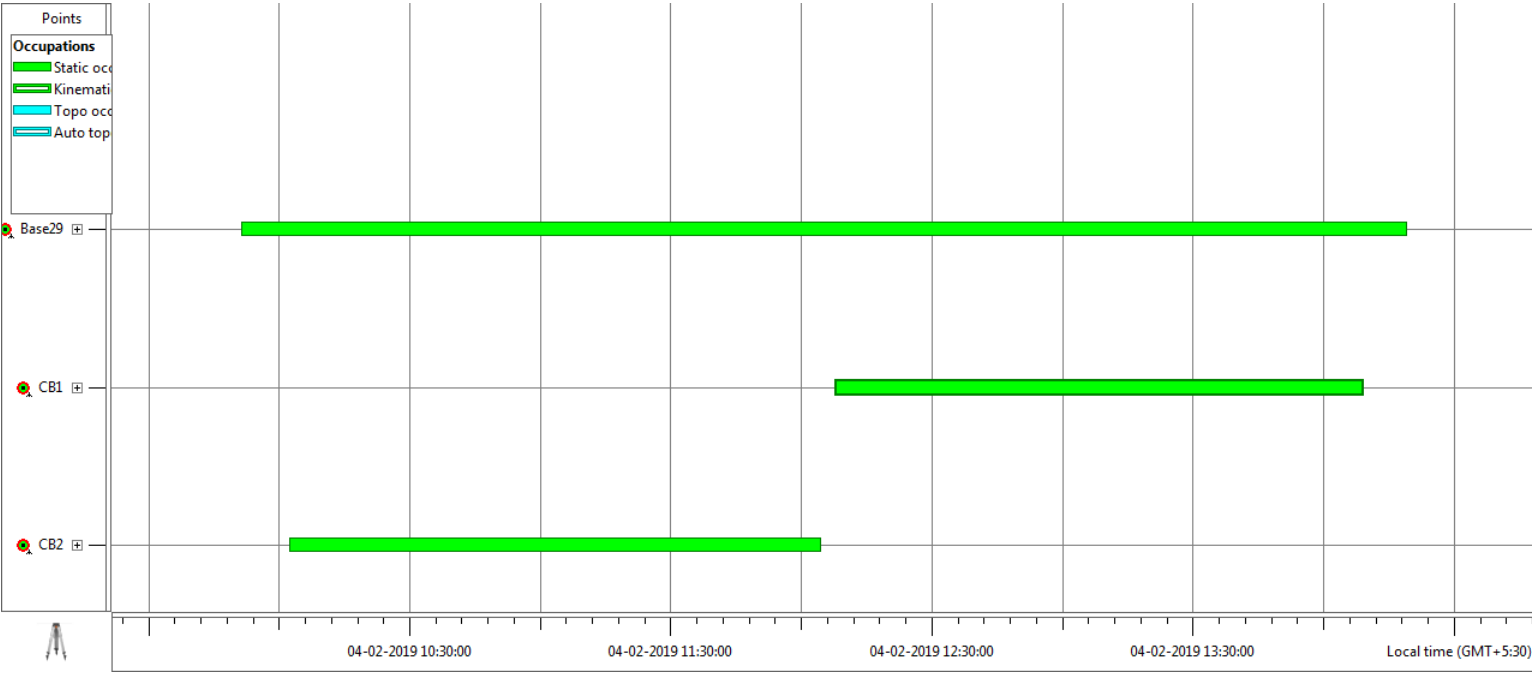
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base29-CB1	106.000	-270.696	-20.033	0.001	0.001	266.517	-79.043	87.596	290°53'04.9142"	-3°56'33.2272"	291.465	04-02-2019 12:07:55	02:01:05	Fixed	1453	13	10	3.506	1.729	3.050	Adjusted	0.001		1.494	Slant		1.588	Slant
Base29-CB2	153.755	-240.352	-21.386	0.001	0.001	235.174	-96.759	131.281	302°06'27.1604"	-4°17'12.3678"	286.189	04-02-2019 10:02:25	02:02:15	Fixed	1467	14	8	4.019	1.934	3.523	Adjusted	0.001		1.494	Slant		1.650	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
CB1	Base31	04-02-2019 12:07:55	02:01:05	Static	Q1N98C1FKSW	5000	1451	0.001	0.001	0.001	0.001	Topcon
CB2	Base30	04-02-2019 10:02:25	02:02:15	Static	Q1N98C1FKSW	5000	1467	0.001	0.001	0.002	0.001	Topcon
Base29	Base29	04-02-2019 09:51:25	04:27:50	Static	Q002CX5LQ8I	5000	3209	0.001	0.001	0.001	0.002	Topcon

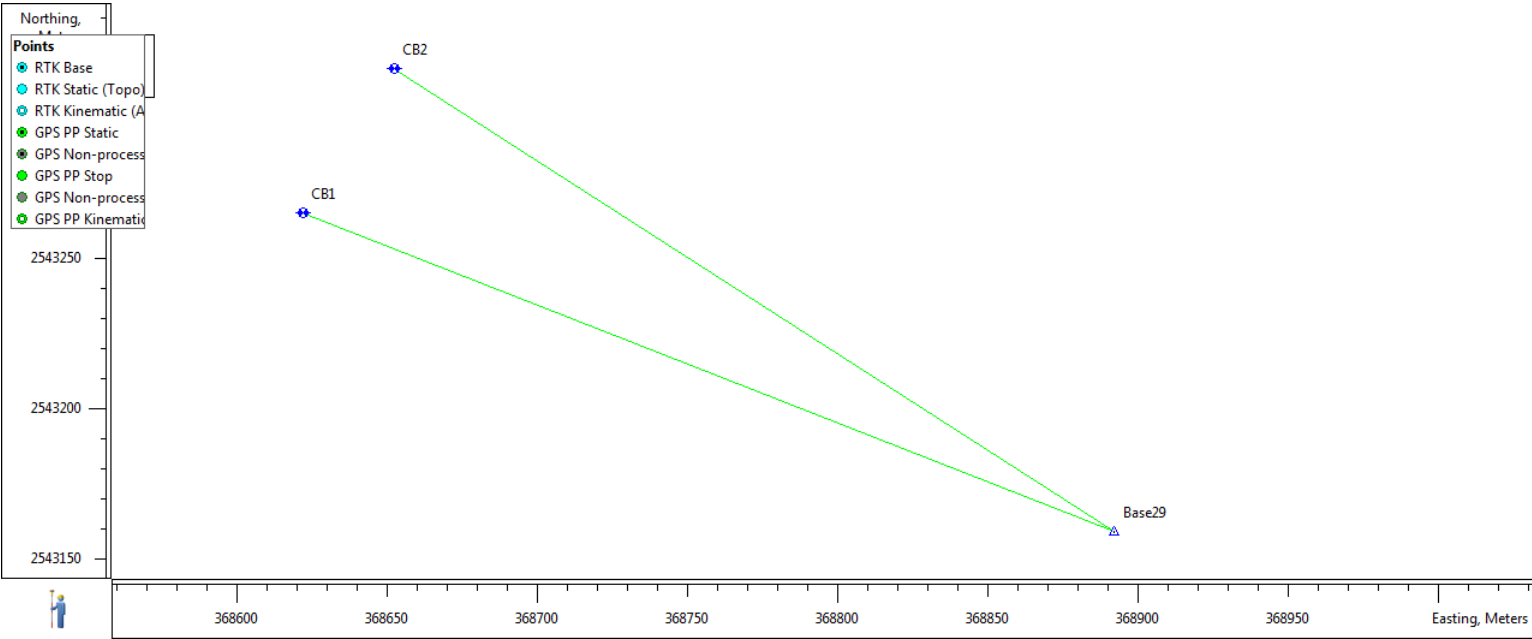
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base29	2543159.246	368892.062	22°59'29.68319"N	85°43'14.95668"E	
CB1	2543265.247	368621.363	22°59'33.05267"N	85°43'05.41795"E	
CB2	2543313.002	368651.708	22°59'34.61393"N	85°43'06.46891"E	



Project name: **PARASI GOLD DEPOSIT**
 Project folder: **E:\RUNGTA GOLD MINES\ALL DATA**
 Creation time: **05-02-2019 10:57:30**
 Created by: **RAJAT KUMAR KHUNTIA** GEMS PROJECTS PVT LTD
 Comment: **RAW DGPS OBSERVATION DATA BY STATIC METHOD**
 Linear unit: **Meters**
 Angular unit: **DMS**
 Projection: **UTMNorth-Zone_45 : 84E to 90E**
 Datum: **WGS84**
 Geoid:
 Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: **RAJAT KUMAR KHUNTIA** SR. SURVEYOR - RAJAT KUMAR KHUNTIA

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
Base2	Base12	25-01-2019 09:33:50	02:18:50	Static	Q002CXL08I	5000	1661	0.001	0.001	0.001	0.001	Topcon
CB3	Base13	25-01-2019 09:44:25	02:00:30	Static	Q1N98C1FKSW	5000	1442	0.001	0.001	0.001	0.002	Topcon

The plot displays the 'Base' data set with Northing on the Y-axis and Easting (Meters) on the X-axis. A scale bar indicates a distance of 19,978 meters. Two points are plotted: 'CB3' and 'Base2'.

Point	Easting (Meters)	Northing
CB3	~368750	~2543300
Base2	~368900	~2543190

The occupation plot shows the duration of various occupations for two stations, Base2 and CB3, on January 25, 2019. The x-axis represents local time in GMT+5:30, ranging from 09:30:00 to 12:30:00. The y-axis lists the stations. The legend indicates the following occupation types: Static occupation (green), Kinematic occupation (yellow), Topographic occupation (blue), and Auto topographic occupation (red). For Base2, a green bar indicates static occupation from approximately 09:30:00 to 12:15:00. For CB3, a green bar indicates static occupation from approximately 10:00:00 to 12:15:00.

Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base2	2543175.726	368906.827	22°59'30.22318"N	85°43'15.47014"E	
CB3	2543333.809	368764.060	22°59'35.32231"N	85°43'10.40808"E	



Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RUNGTA GOLD MINES\IAL DATA
Creation time: 05-02-2019 10:57:30
Created by: RAJAT KUMAR KHUNTIA GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTMNorth-Zone_45 : 84E to 90E
Datum: WGS84
Geoid:
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

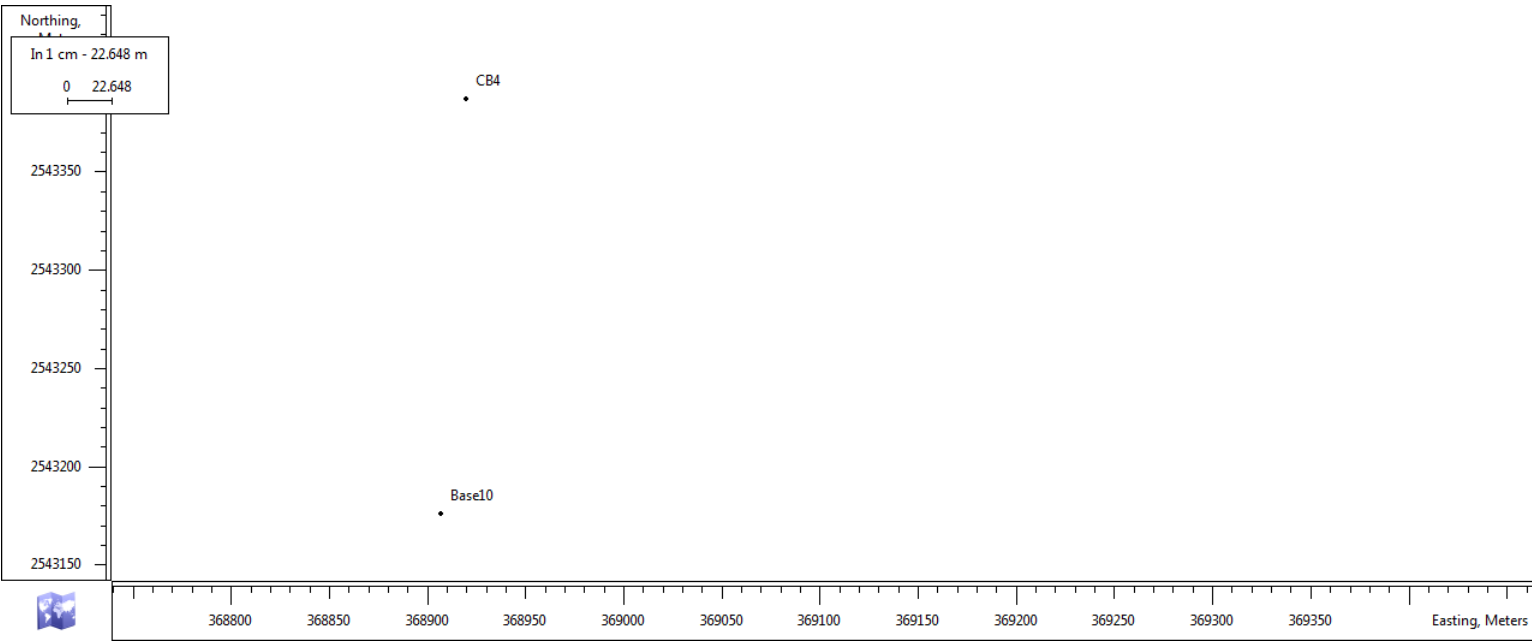
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: RAJAT KUMAR KHUNTIA SR. SURVEYOR - RAJAT KUMAR KHUNTIA

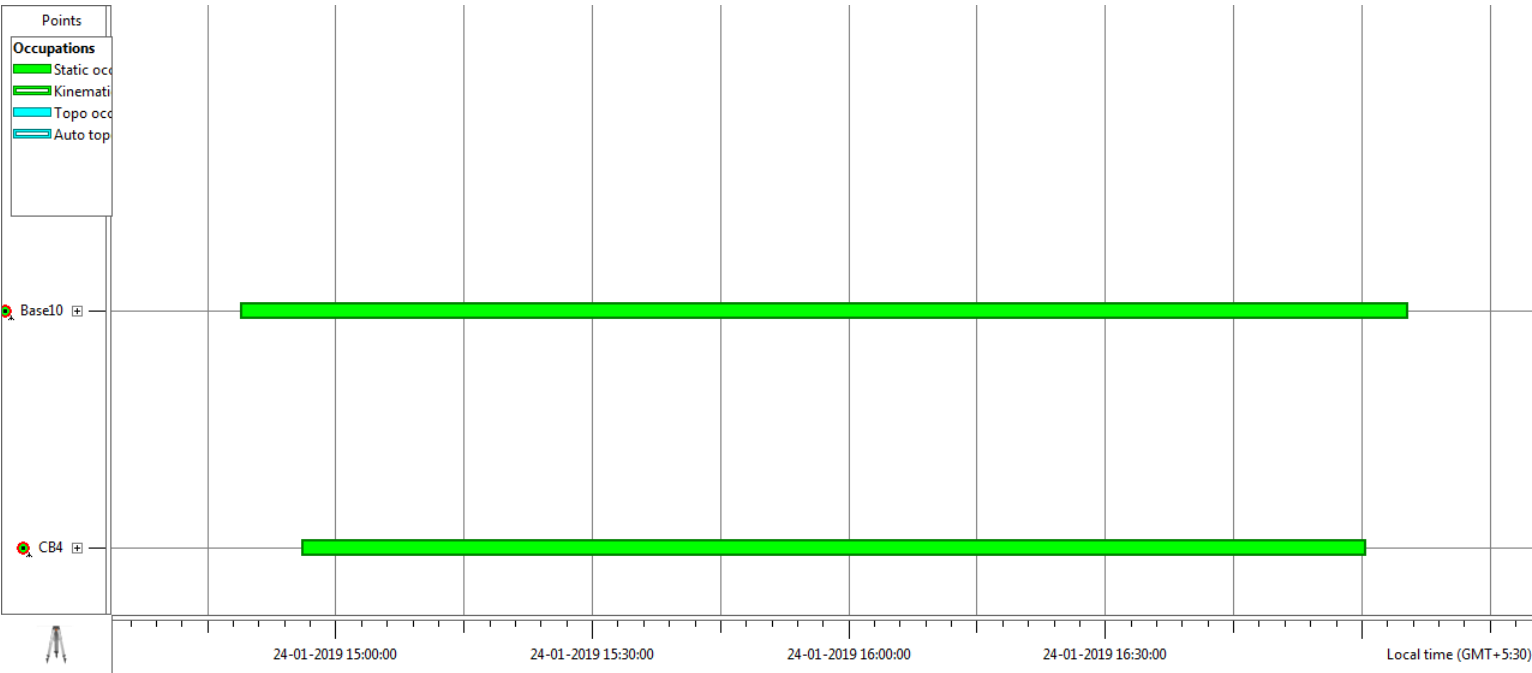
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height M
Base10-CB4	211.434	12.847	-18.562	0.001	0.001	-18.416	-98.637	187.527	2°58'38.3713"	-5°00'27.8999"	212.684	24-01-2019 14:56:05	02:04:20	Fixed	1492	11	8	1.483	0.685	1.315	Adjusted	0.001	GRX2	1.460	Slant	GRX2	1.503	Slant

GPS Occupations													
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor	
Base10	Base10	24-01-2019 14:49:00	02:16:20	Static	Q002CX5LQ8I	5000	1633	0.001	0.001	0.001	0.000	Topcon	
CB4	Base11	24-01-2019 14:56:05	02:04:20	Static	Q1N98C1FKSW	5000	1491	0.001	0.001	0.001	0.002	Topcon	

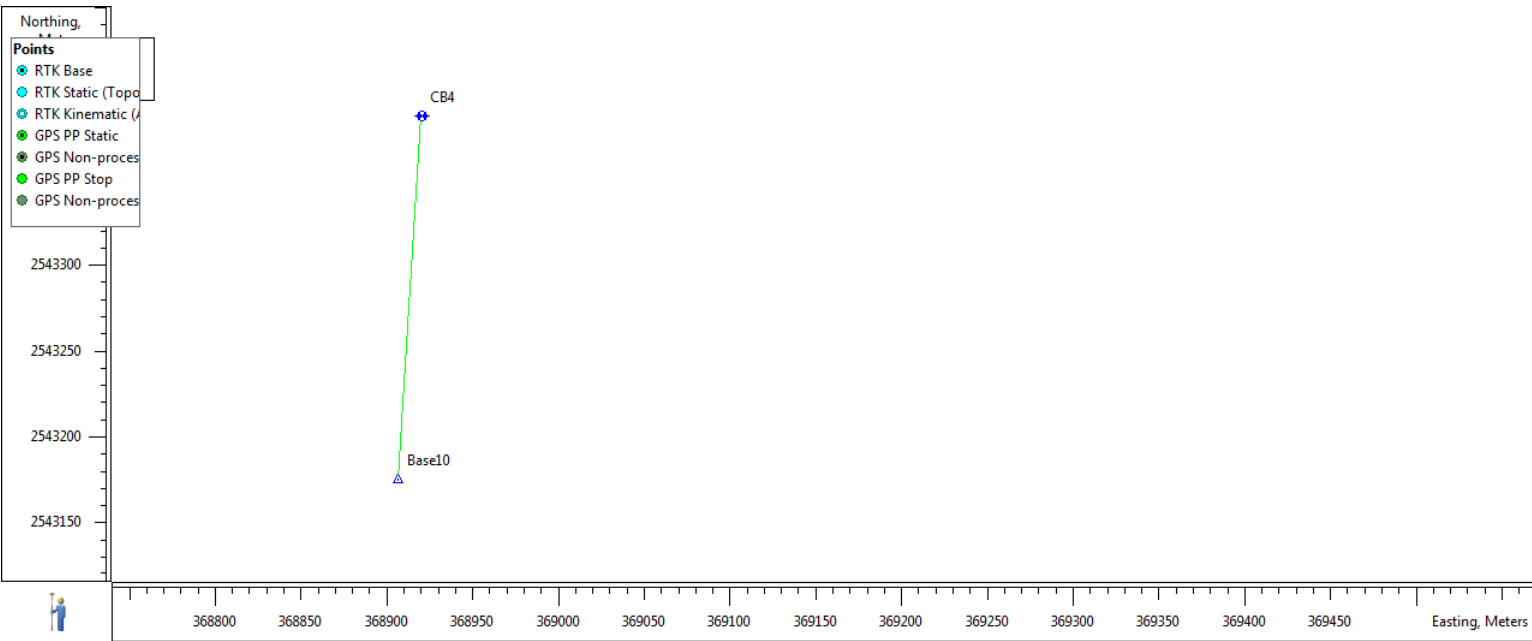
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base10	2543175.726	368906.827	22°59'30.22318"N	85°43'15.47014"E	
CB4	2543387.160	368919.674	22°59'37.10104"N	85°43'15.85653"E	

Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RJUNGTA GOLD MINES\ALL DATA
Creation time: 05-02-2019 10:57:30
Created by: RAJAT KUMAR KHUNTIA GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTM North-Zone_45 : 84E to 90E
Datum: WGS84
Geoid:
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

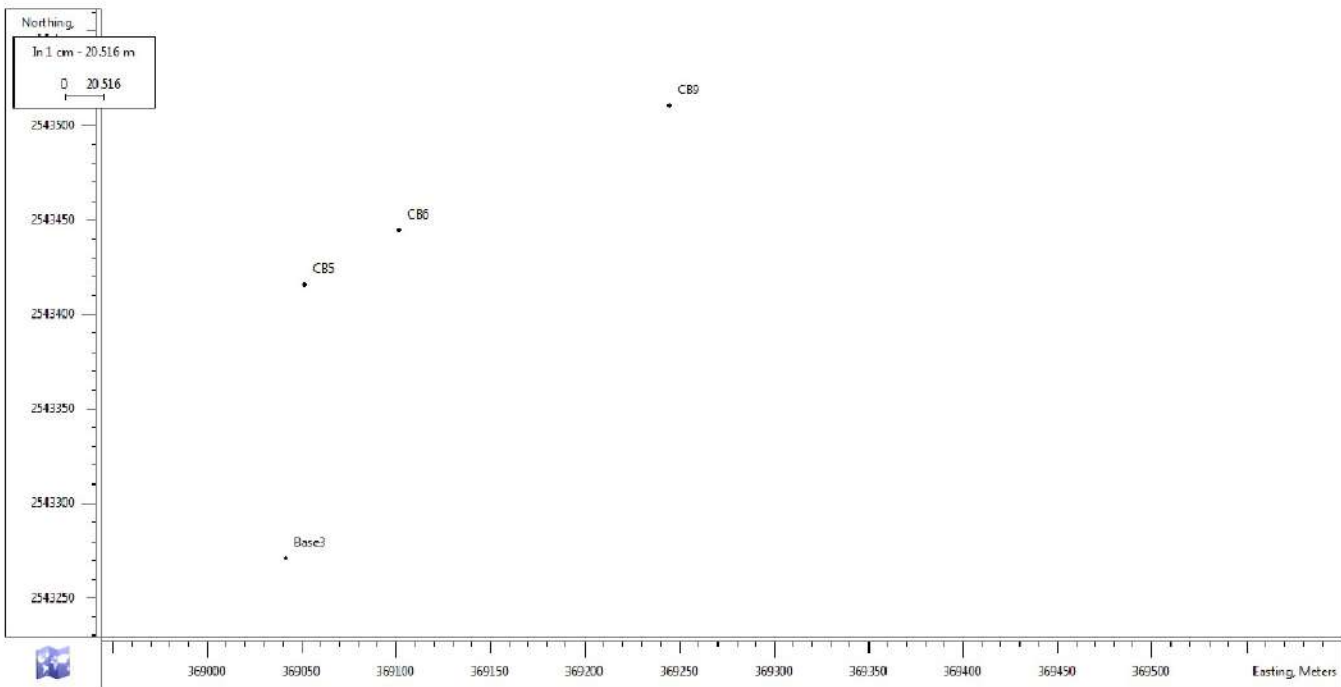
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: RAJAT KUMAR KHUNTIA SR. SURVEYOR - RAJAT KUMAR KHUNTIA

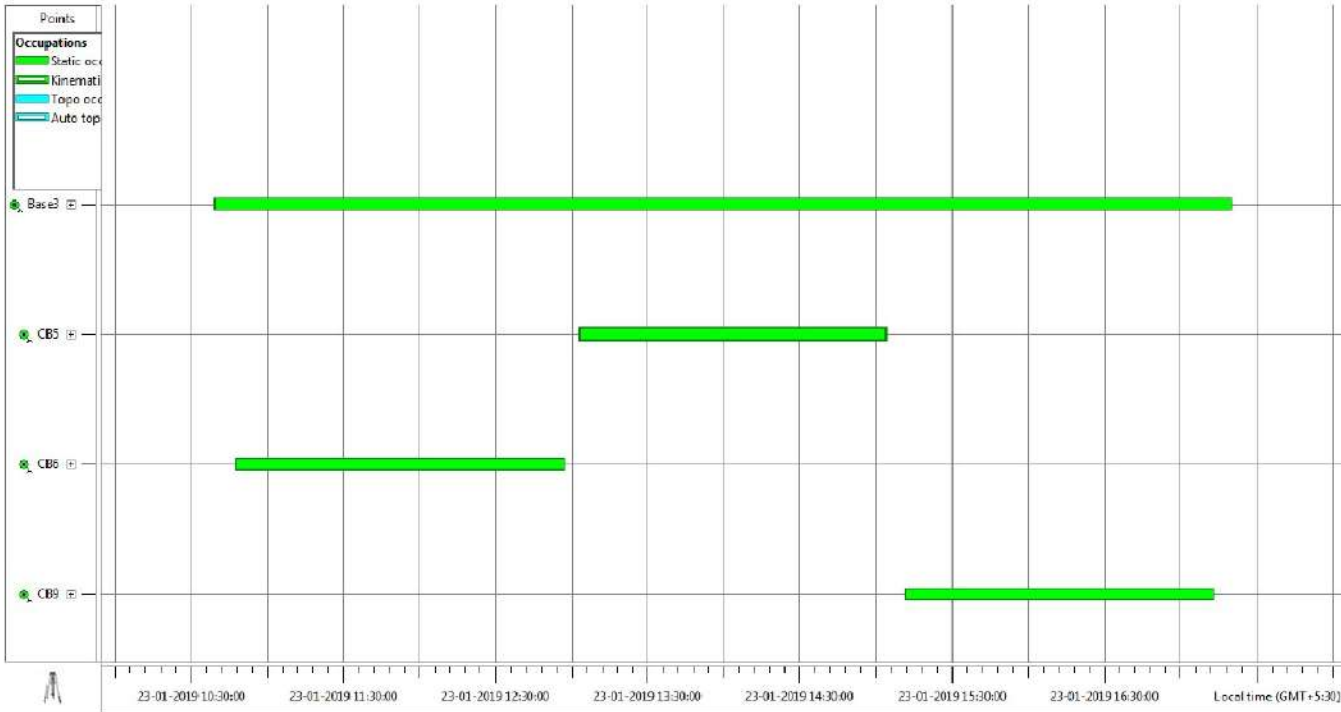
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base3-CB5	144.524	9.830	-4.013	0.004	0.007	-13.038	-59.386	131.579	3°23'30.4843"	-1°35'13.6255"	144.947	23-01-2019 13:03:20	02:00:55	Fixed	1451	10	5	1.826	0.925	1.574	Adjusted	0.009	GRX2	1.532	Slant	GRX2	1.425	Slant
Base3-CB6	173.593	59.555	-7.715	0.002	0.005	-63.496	-70.588	157.296	18°26'11.6106"	-2°24'25.5697"	183.729	23-01-2019 10:47:20	02:10:20	Fixed	1564	12	3	1.875	0.818	1.688	Adjusted	0.005	GRX2	1.532	Slant	GRX2	1.501	Slant
Base3-CB9	239.185	202.730	-8.050	0.002	0.003	-207.700	-86.301	218.704	39°47'05.9359"	-1°28'18.1150"	313.718	23-01-2019 15:11:45	02:01:40	Fixed	1460	11	7	1.581	0.754	1.389	Adjusted	0.003	GRX2	1.532	Slant	GRX2	1.512	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
CB5	Base5	23-01-2019 13:03:20	02:00:55	Static	Q1N98C1FKSW	5000	1450	0.001	0.001	0.009	0.001	Topcon
Base3	Base3	23-01-2019 10:39:20	05:41:05	Static	Q002CXSL08I	5000	4810	0.001	0.001	0.001	0.002	Topcon
CB6	Base4	23-01-2019 10:47:20	02:10:20	Static	Q1N98C1FKSW	5000	1563	0.001	0.001	0.002	0.001	Topcon
CB9	Base6	23-01-2019 15:11:45	02:01:40	Static	Q1N98C1FKSW	5000	1456	0.001	0.001	0.001	0.001	Topcon

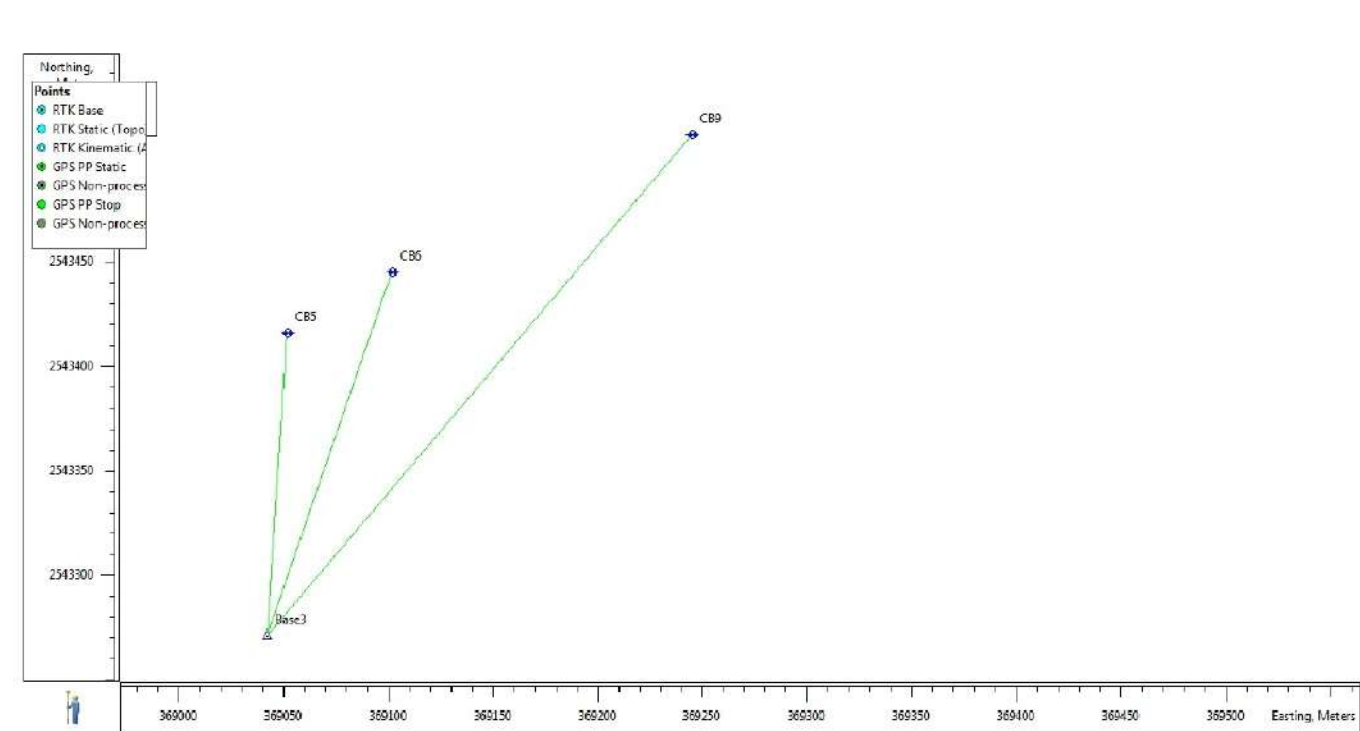
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base3	2543271.060	369041.937	22°59'33.36100"N	85°43'20.15568"E	
CB5	2543415.584	369051.767	22°59'38.06260"N	85°43'20.48667"E	
CB6	2543444.653	369101.492	22°59'39.02177"N	85°43'22.22403"E	
CB9	2543510.245	369244.667	22°59'41.19484"N	85°43'27.23200"E	



Project

Project name: **PARASI GOLD DEPOSIT**
Project folder: **E:\RUNGTA GOLD MINES\ALL DATA**
Creation time: **05-02-2019 10:57:30**
Created by: **RAJAT KUMAR KHUNTIA** GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: **Meters**
Angular unit: **DMS**
Projection: **UTMNorth-Zone_45 : 84E to 90E**
Datum: **WGS84**
Geoid:
Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

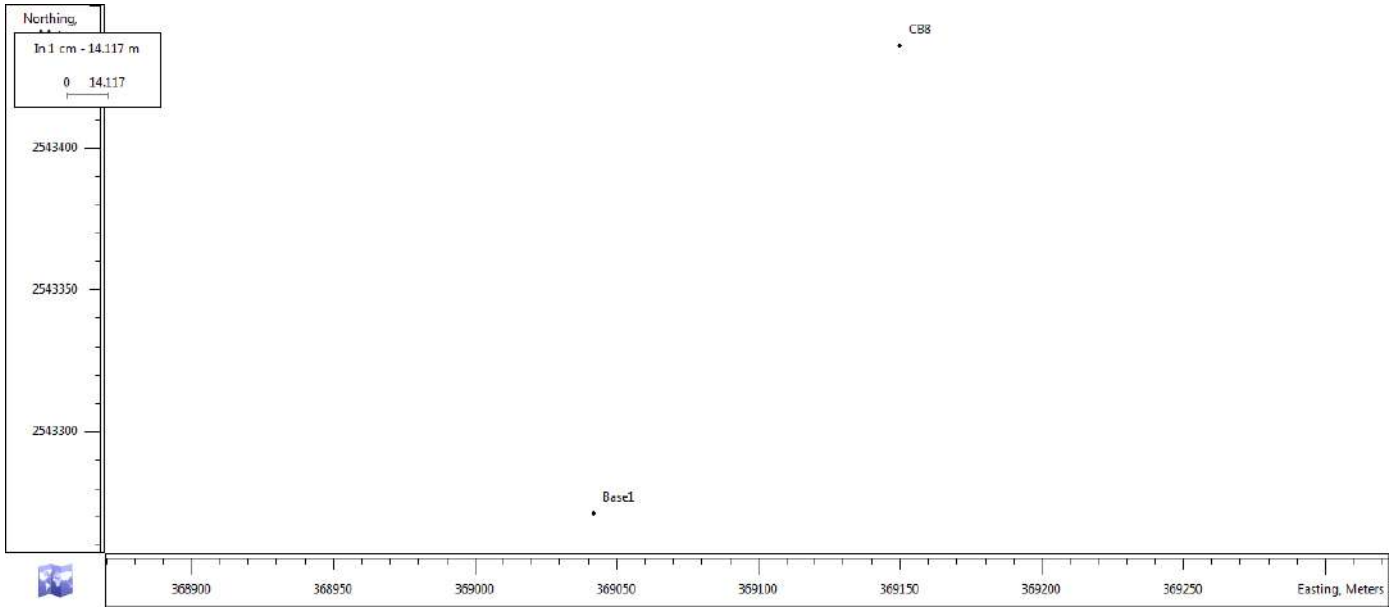
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: **RAJAT KUMAR KHUNTIA** SR. SURVEYOR - RAJAT KUMAR KHUNTIA

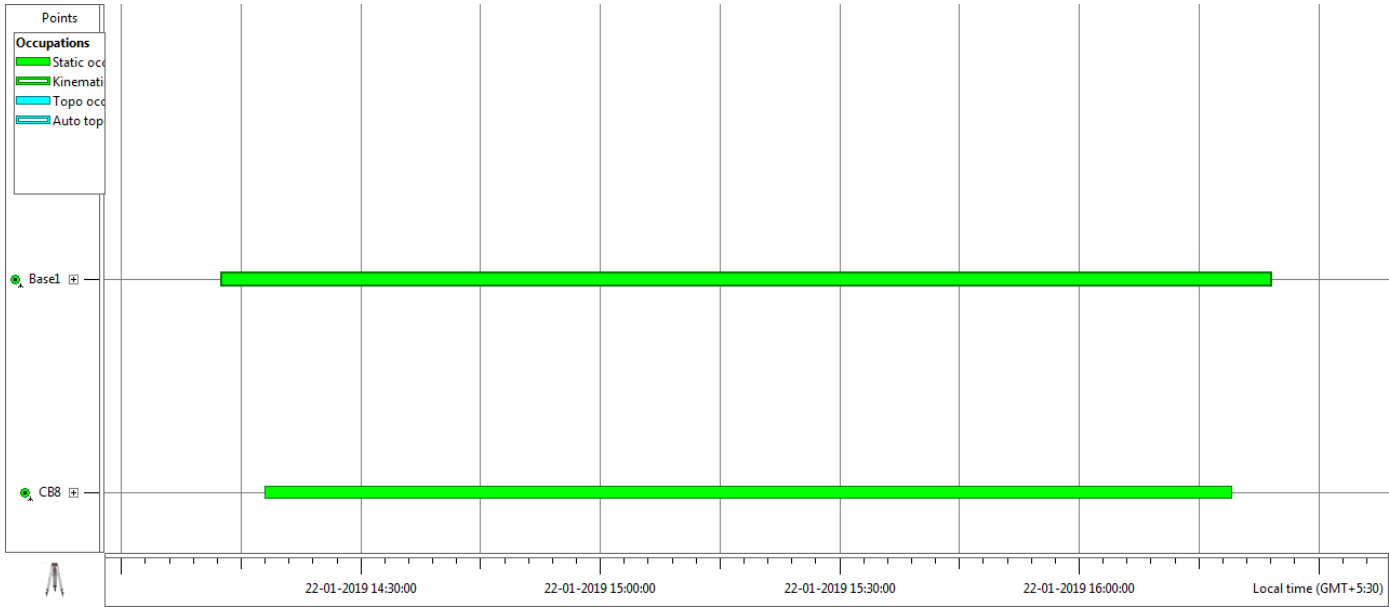
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base1-CB8	164.836	108.214	-7.505	0.001	0.002	-111.848	-63.513	149.705	32°47'08.2259"	-2°10'47.9219"	197.371	22-01-2019 14:18:00	02:01:10	Fixed	1454	12	5	1.566	0.740	1.380	Adjusted	0.002	GRX2	1.485	Slant	GRX2	1.635	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
Base1	Base1	22-01-2019 14:12:35	02:11:30	Static	Q002CX5LQ8I	5000	1574	0.001	0.001	0.001	0.002	Topcon
CB8	Base2	22-01-2019 14:18:00	02:01:10	Static	Q1N98C1FKSW	5000	1450	0.001	0.001	0.000	0.001	Topcon

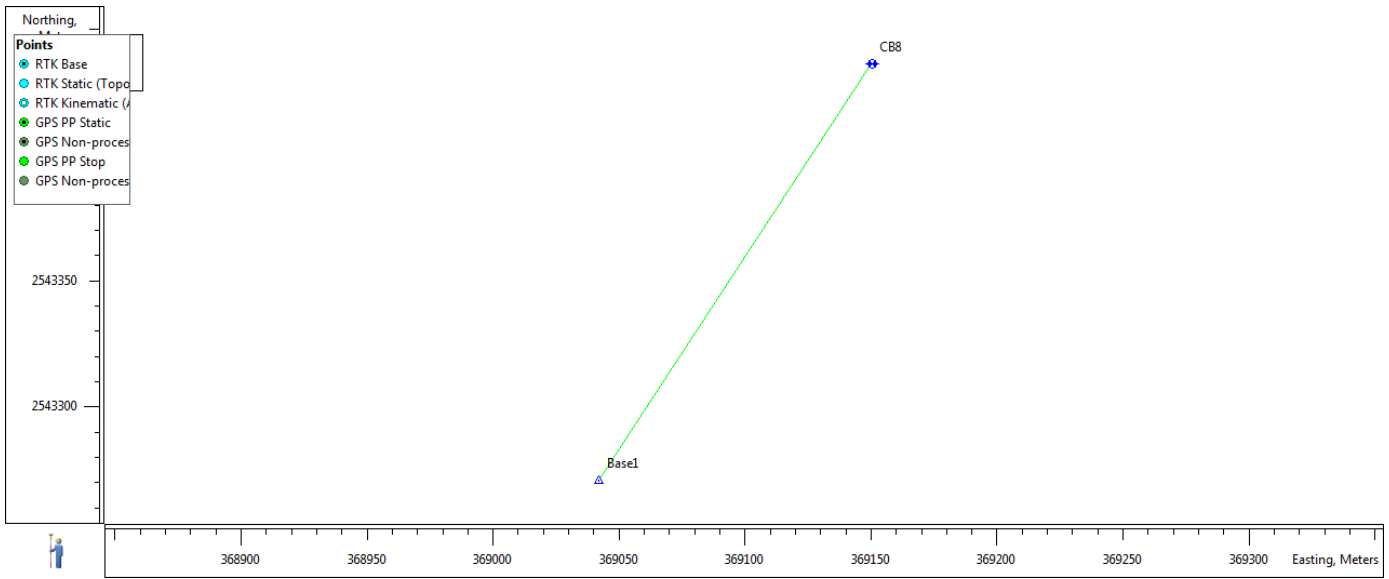
Map View



Occupation View



Observation View



Point Summary				
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude
Base1	2543271.060	369041.937	22°59'33.36100"N	85°43'20.18568"E
CB8	2543435.896	369150.151	22°59'38.75083"N	85°43'23.93551"E



Project

Project name: **PARASI GOLD DEPOSIT**
Project folder: **E:\RUNGTA GOLD MINES\ALL DATA\121**
Creation time: **05-02-2019 12:35:25**
Created by: **GEMS PROJECTS PVT LTD**
Comment: **RAW DGPS OBSERVATION DATA BY STATIC METHOD**
Linear unit: **Meters**
Angular unit: **DMS**
Projection: **UTMNorth-Zone_45 : 84E to 90E**
Datum: **WGS84**
Geoid: **EGM08**
Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

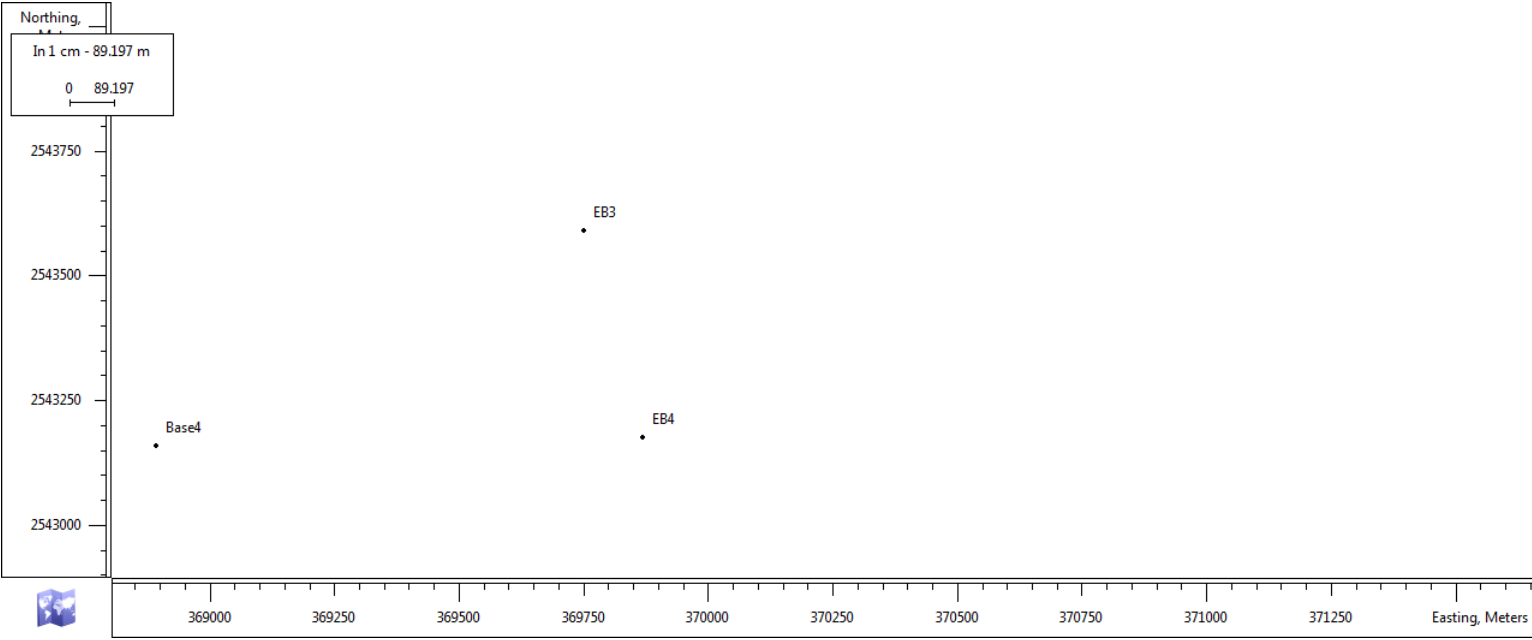
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

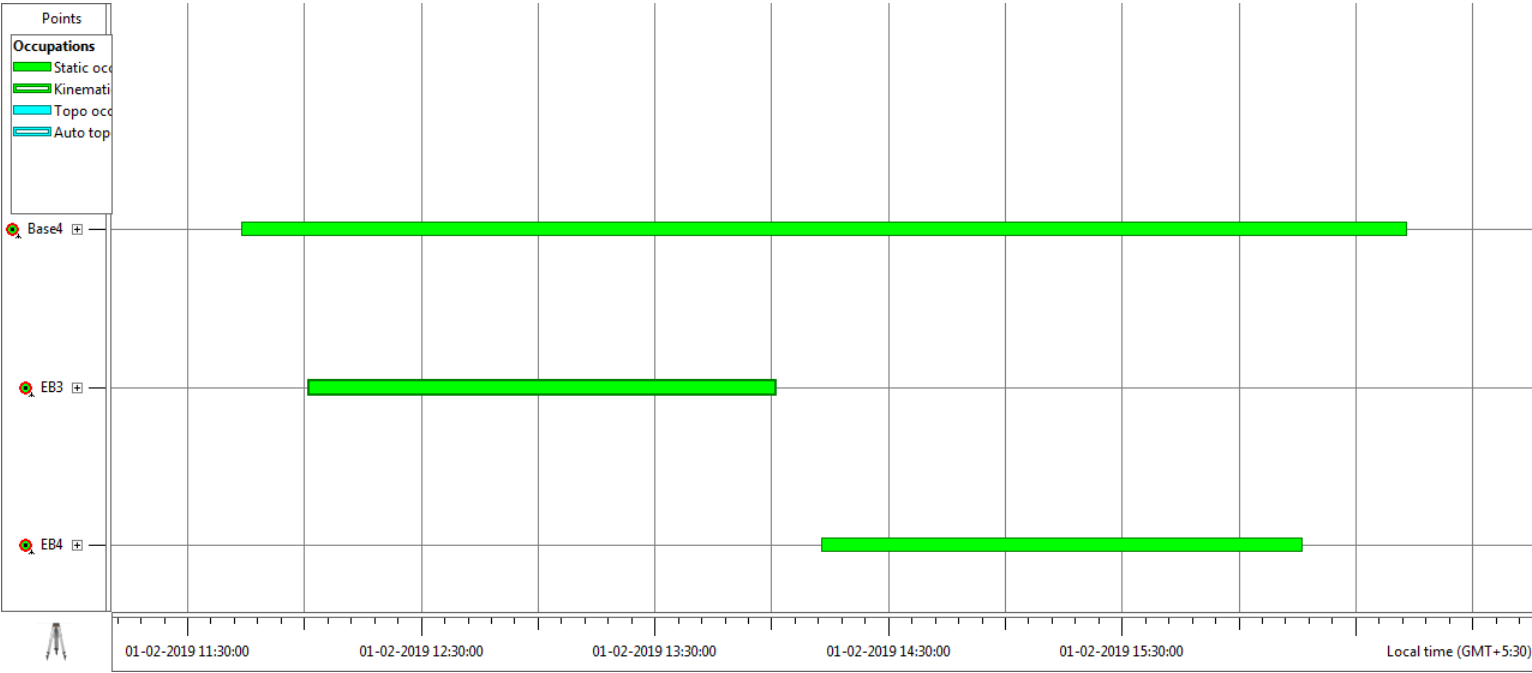
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base4-EB3	429.853	859.637	-24.950	0.001	0.002	-868.131	-129.479	392.911	62°56'00.0848"	-1°29'27.6504"	961.663	01-02-2019 12:01:00	02:00:05	Fixed	1441	14	9	16.634	4.087	16.124	Adjusted	0.002	GRX2	1.478	Slant	GRX2	1.548	Slant
Base4-EB4	15.221	975.864	-20.520	0.001	0.002	-975.302	44.668	13.807	88°36'24.0932"	-1°12'30.7782"	976.422	01-02-2019 14:12:50	02:03:35	Fixed	1483	15	11	6.054	1.373	5.896	Adjusted	0.002	GRX2	1.478	Slant	GRX2	1.613	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
EB3	Base23	01-02-2019 12:01:00	02:00:05	Static	Q1N98C1FKSW	5000	1436	0.001	0.001	0.001	0.002	Topcon
EB4	Base24	01-02-2019 14:12:50	02:03:35	Static	Q1N98C1FKSW	5000	1483	0.001	0.001	0.002	0.003	Topcon
Base4	Base22	01-02-2019 11:43:55	04:59:20	Static	Q002CX5LQ8I	5000	3584	0.001	0.001	0.001	0.001	Topcon

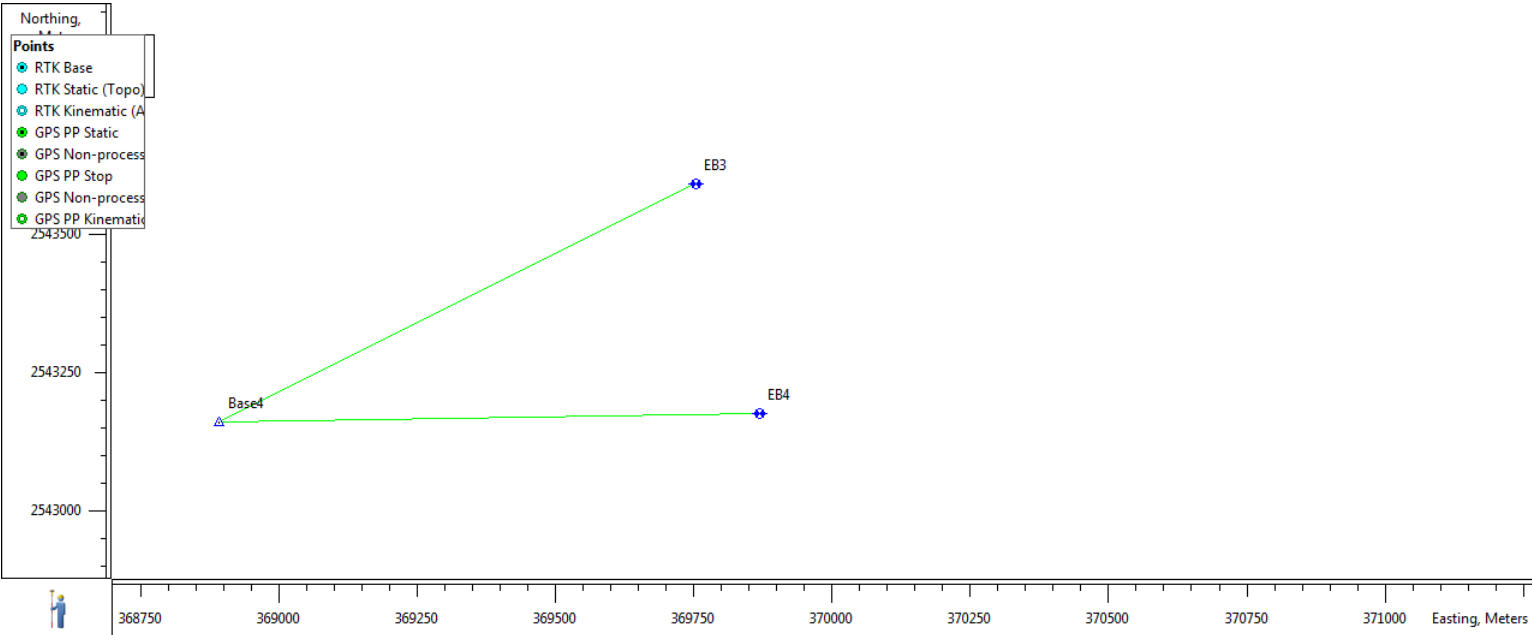
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base4	2543159.246	368892.062	22°59'29.68319"N	85°43'14.95668"E	
EB3	2543589.103	369751.707	22°59'43.90184"N	85°43'45.01434"E	
EB4	2543174.467	369867.935	22°59'30.45376"N	85°43'49.22215"E	

Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RUNGTA GOLD MINES\A
Creation time: 15-02-2019 16:15:23
Created by: GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTMNorth-Zone_45 : 84E to 90E
Datum: WGS84
Geoid:
Time zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

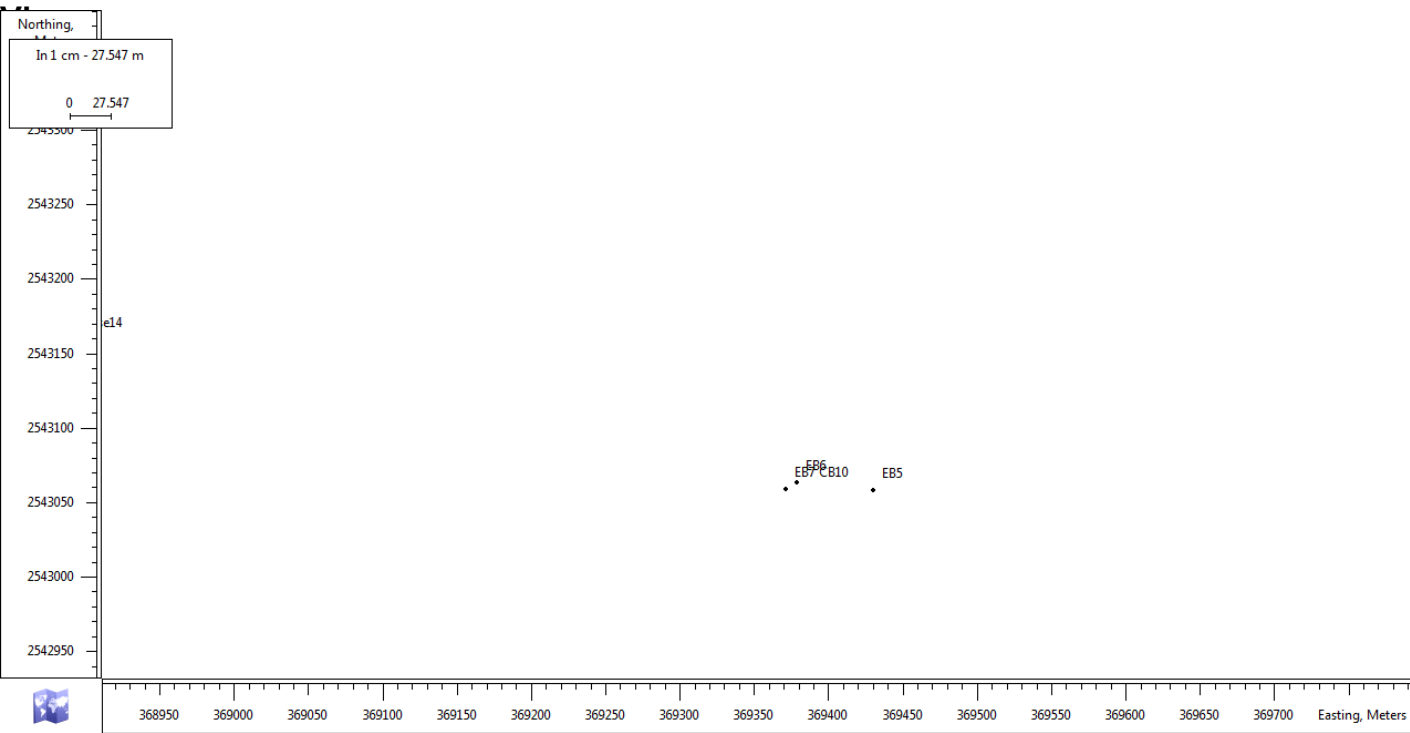
GPS Observations

Name	dN (m)	dE (m)	dH (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base14-EB5	154.192	-240.360	-21.319	0.001	0.001	235.177	-96.869	131.703	302°10'50.4863"	-4°16'11.5566"	286.425	28-01-2019 10:18:05	02:01:55	Fixed	1463	14	8	3.512	1.664	3.093	Adjusted	0.001	GRX2	1.546	Slant	GRX2	1.560	Slant
Base14-EB6	106.493	-270.636	-19.976	0.001	0.001	266.450	-79.179	88.073	290°58'46.2381"	-3°55'46.5712"	291.585	28-01-2019 12:27:15	02:00:45	Fixed	1449	16	9	18.643	4.303	18.140	Adjusted	0.001	GRX2	1.546	Slant	GRX2	1.581	Slant

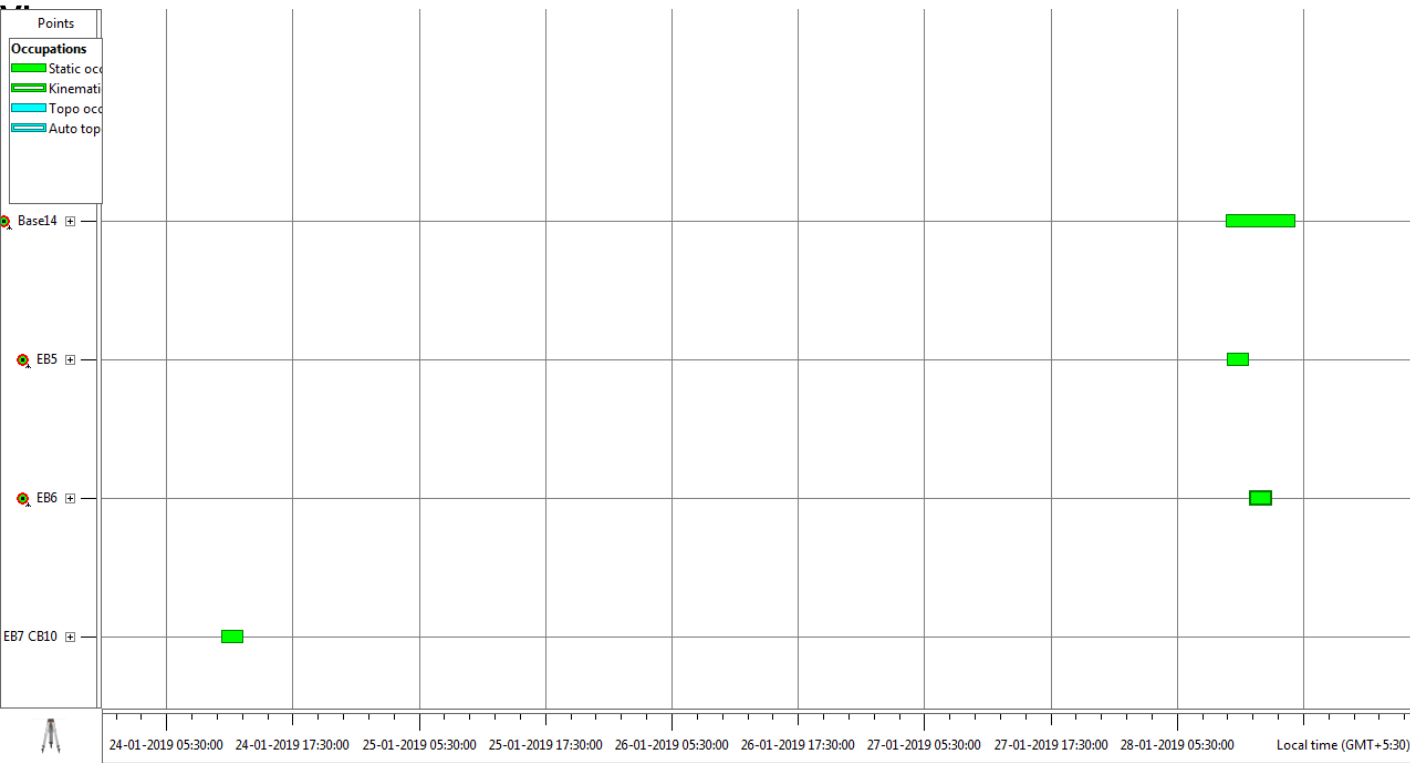
GPS Occupations

Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
EB6	Base16	28-01-2019 12:27:15	02:00:45	Static	Q1N98C1FKSW	5000	1444	0.001	0.001	0.001	0.003	Topcon
EB5	Base15	28-01-2019 10:18:05	02:01:55	Static	Q1N98C1FKSW	5000	1463	0.001	0.001	0.002	0.003	Topcon
Base14	Base14	28-01-2019 10:11:40	06:33:45	Static	Q002CX5LQ8I	5000	4717	0.001	0.001	0.003	0.002	Topcon
EB7 CB10	Base8	24-01-2019 10:44:40	02:02:20	Static	Q1N98C1FKSW	5000	1468	0.001	0.001	0.002	0.001	Topcon

Map

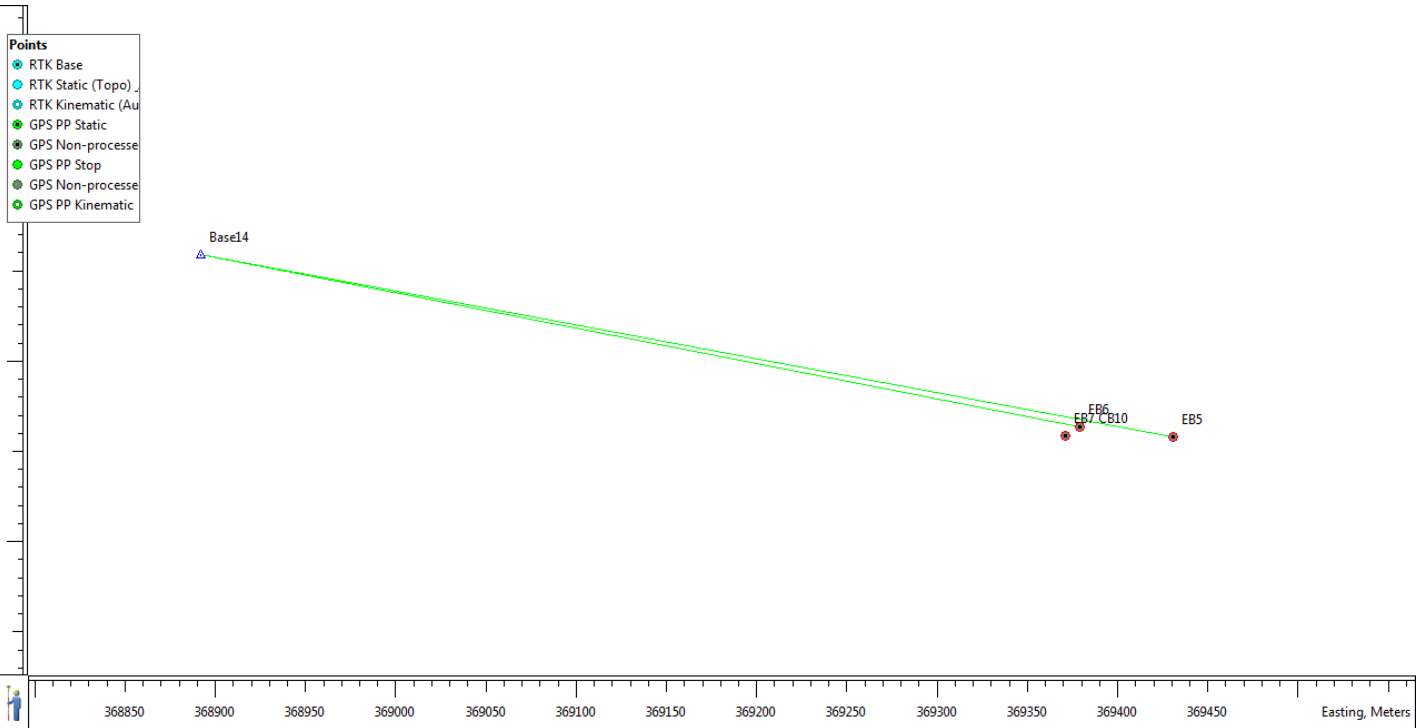


Occupation



Observation

View



Point Summary

Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base14	2543159.246	368892.062	22° 59' 29.68319"N	85° 43' 14.95668"E	
EB5	2543058.470	369430.489	22° 59' 26.559" N	85° 43' 33.896" E	
EB6	2543063.567	369379.009	22° 59' 26.710" N	85° 43' 32.068" E	
EB7 CB10	2543058.771	369371.263	22° 59' 26.552" N	85° 43' 31.816" E	



Project

Project name: **PARASI GOLD DEPOSIT**
Project folder: E:\RUNGTA GOLD MINES\121
Creation time: 05-02-2019 12:48:04
Created by: GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: **Meters**
Angular unit: **DMS**
Projection: **UTMNorth-Zone_45 : 84E to 90E**
Datum: **WGS84**
Geoid: **EGM08**
Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

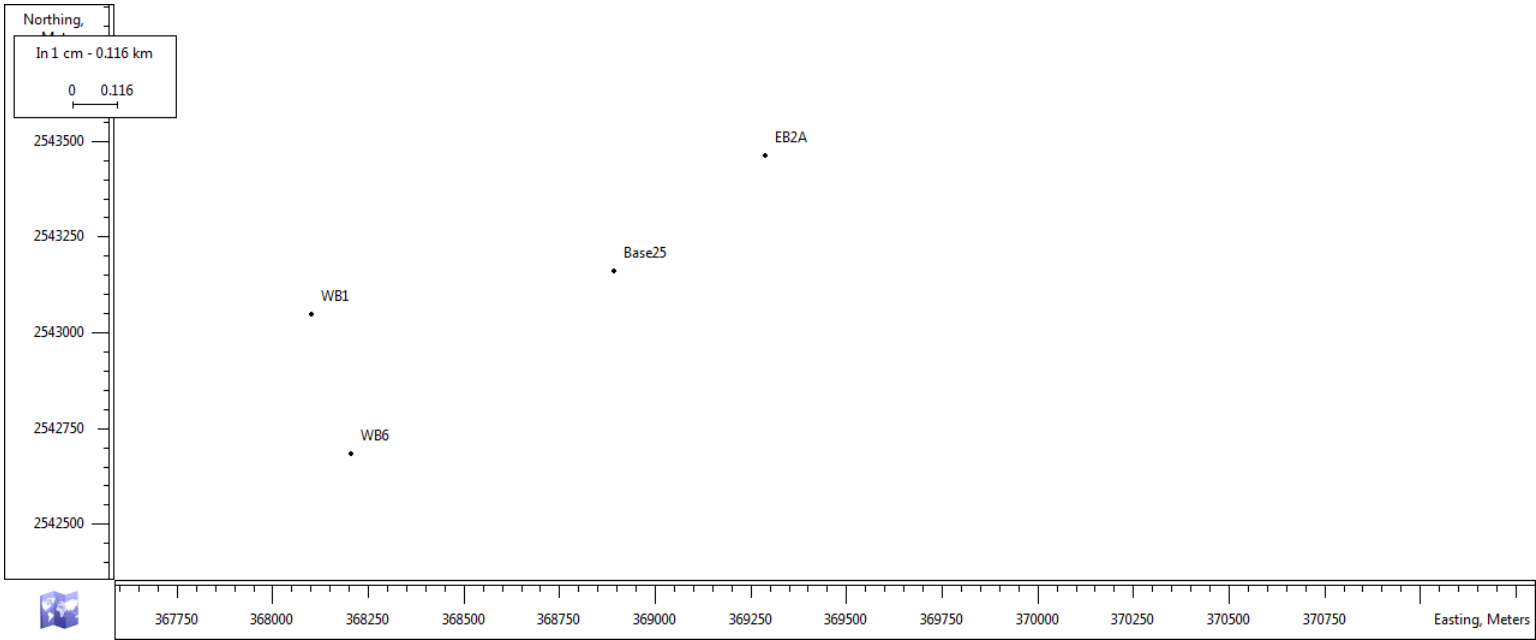
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

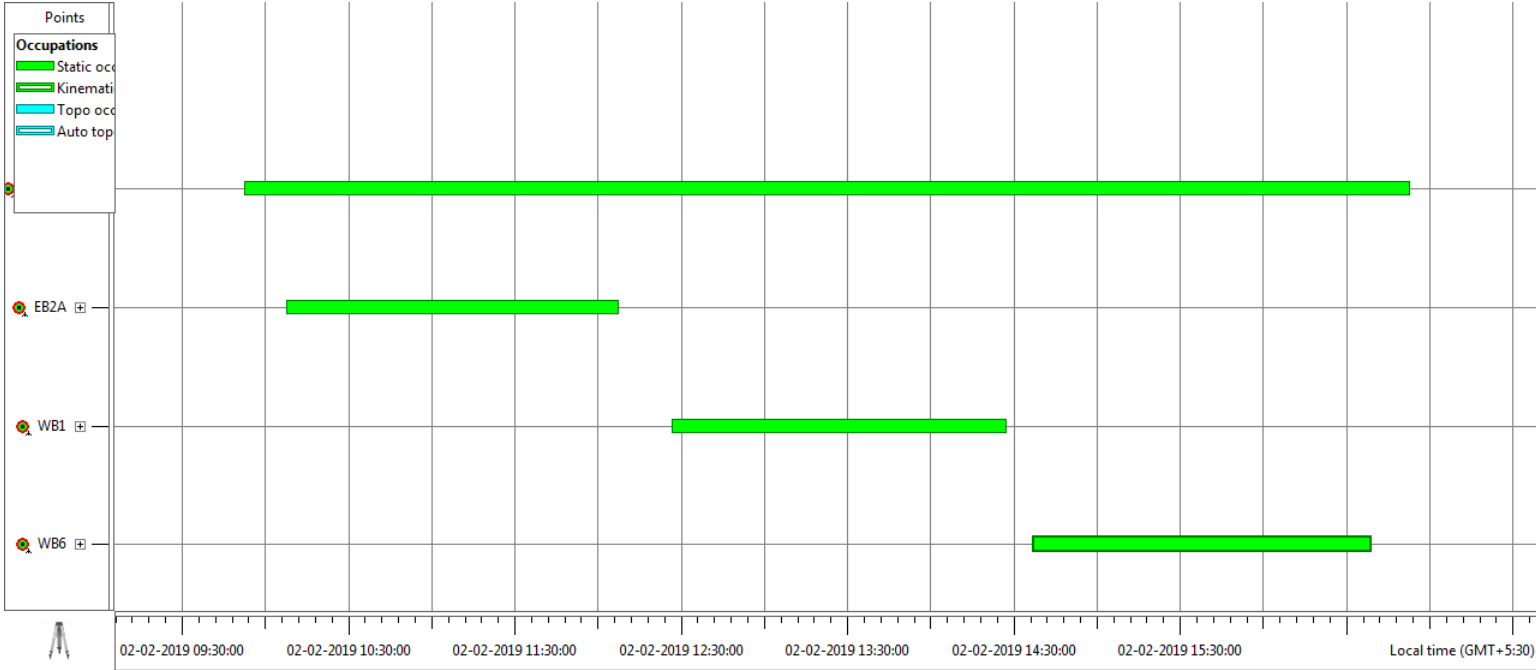
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base25-EB2A	303.150	397.813	-27.480	0.001	0.001	-404.968	-115.206	271.574	52°11'28.9484"	-3°08'46.8974"	501.023	02-02-2019 10:07:35	02:00:15	Fixed	1443	14	8	3.182	1.652	2.719	Adjusted	0.001	GRX2	1.488	Slant	GRX2	1.558	Slant
Base25-WB1	-111.836	-789.932	-19.831	0.001	0.001	788.999	-30.878	-117.081	261°26'31.4302"	-1°25'37.8601"	798.236	02-02-2019 12:26:40	02:01:05	Fixed	1453	14	10	2.766	1.422	2.372	Adjusted	0.001	GRX2	1.488	Slant	GRX2	1.550	Slant
Base25-WB6	-475.968	-687.781	-8.382	0.001	0.004	695.323	128.999	-447.059	234°48'56.8482"	-0°34'40.1694"	836.646	02-02-2019 14:37:15	02:01:20	Fixed	1456	15	10	8.155	1.348	8.042	Adjusted	0.004	GRX2	1.488	Slant	GRX2	1.559	Slant

Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
WB6	Base28	02-02-2019 14:37:15	02:01:20	Static	Q1N98C1FKSW	5000	1455	0.001	0.001	0.001	0.002	Topcon
EB2A	Base26	02-02-2019 10:07:35	02:00:15	Static	Q1N98C1FKSW	5000	1442	0.001	0.001	0.002	0.001	Topcon
WB1	Base27	02-02-2019 12:26:40	02:01:05	Static	Q1N98C1FKSW	5000	1452	0.001	0.001	0.001	0.000	Topcon
Base25	Base25	02-02-2019 09:52:35	07:00:25	Static	Q002CX5LQ8I	5000	5040	0.001	0.001	0.002	0.003	Topcon

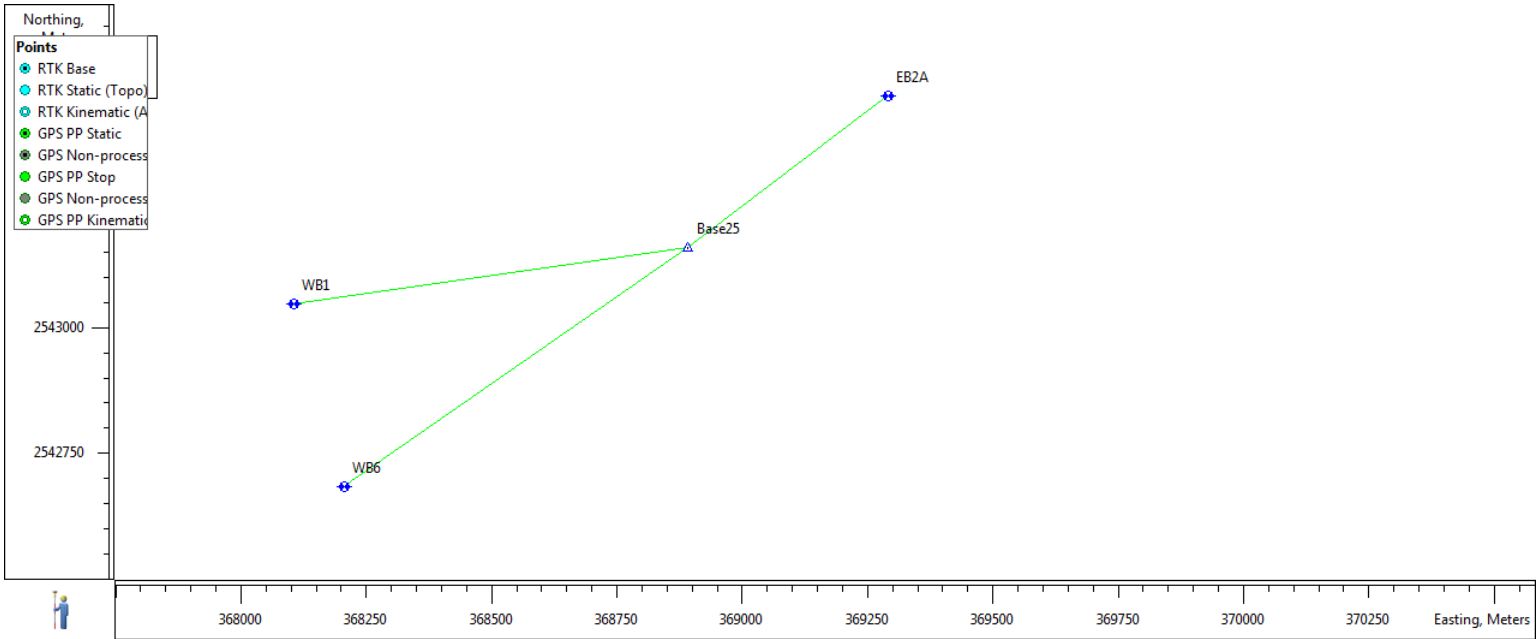
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base25	2543159.246	368892.062	22°59'29.68319"N	85°43'14.95668"E	
EB2A	2543462.398	368289.879	22°59'39.65203"N	85°43'28.83437"E	
WB1	2543047.409	368102.123	22°59'25.82243"N	85°42'47.25067"E	
WB6	2542683.274	368204.275	22°59'14.01275"N	85°42'50.95002"E	



Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RUNGTA GOLD MINES\ALL DATA
Creation time: 05-02-2019 10:57:30
Created by: RAJAT KUMAR KHUNTIA GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY STATIC METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTMNorth-Zone_45 : 84E to 90E
Datum: WGS84
Geoid:
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

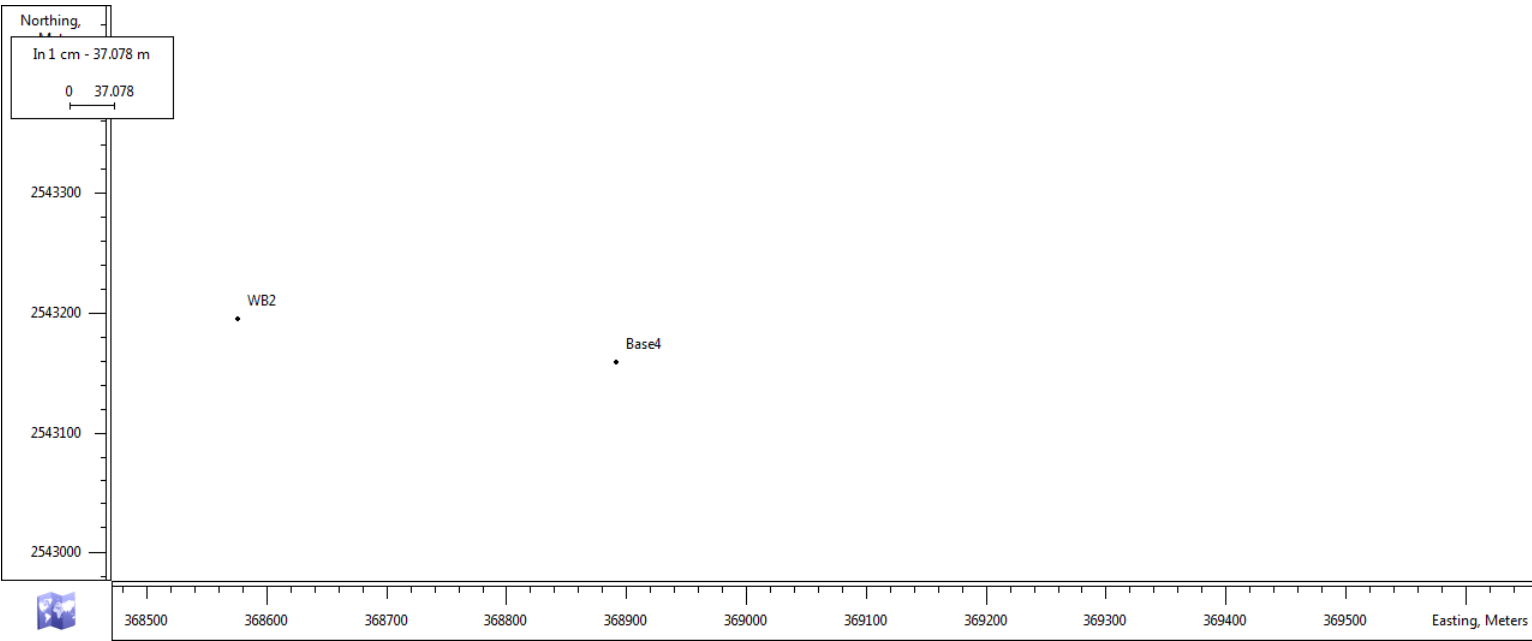
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: RAJAT KUMAR KHUNTIA SR. SURVEYOR - RAJAT KUMAR KHUNTIA

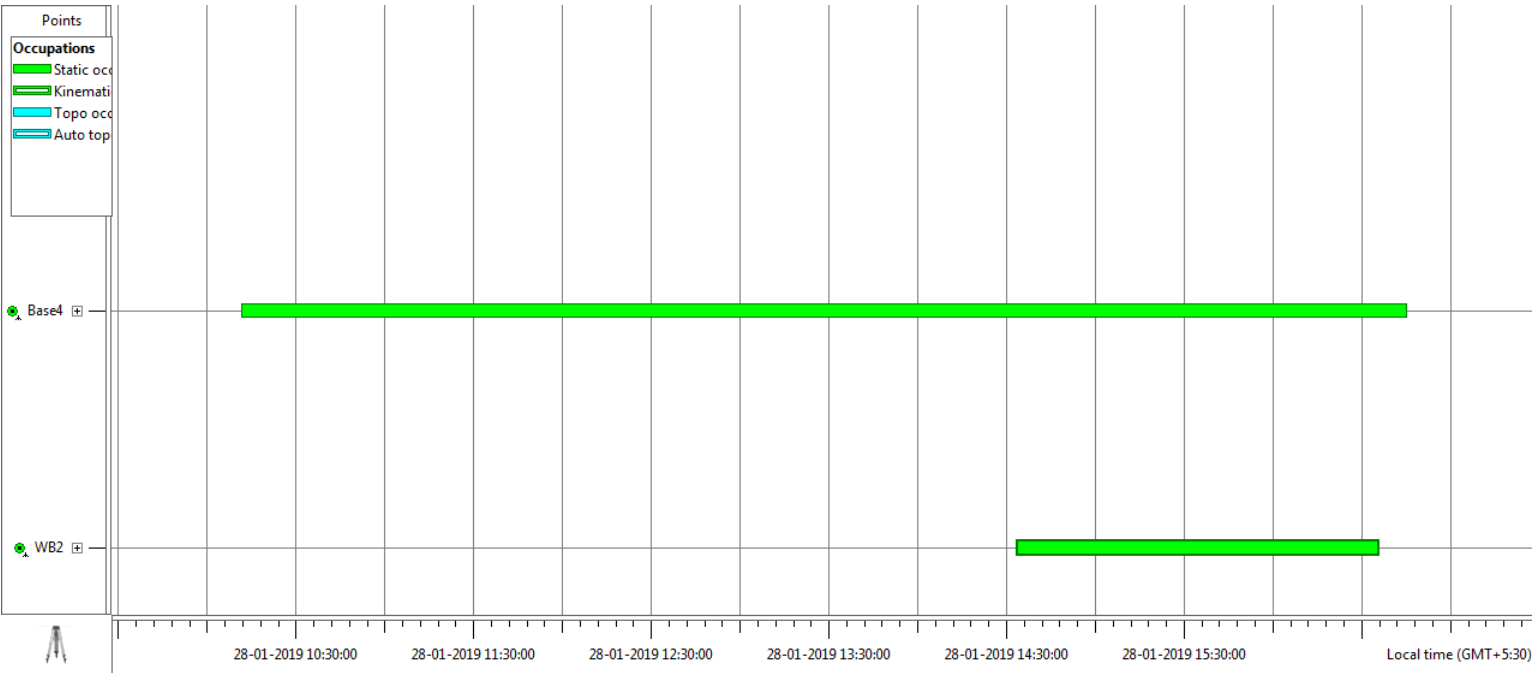
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base4-WB2	35.325	-316.302	-16.697	0.001	0.001	313.690	-51.651	23.460	275°52'21.6373"	-3°00'13.9484"	318.778	28-01-2019 14:33:30	02:02:20	Fixed	1468	11	7	1.678	0.738	1.507	Adjusted	0.002	GRX2	1.546	Slant	GRX2	1.547	Slant

GPS Occupations													
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor	
WB2	Base17	28-01-2019 14:33:30	02:02:20	Static	Q1N98C1FKSW	5000	1465	0.001	0.001	0.001	0.000	Topcon	
Base4	Base14	28-01-2019 10:11:40	06:33:45	Static	Q002CX5LQ8I	5000	4717	0.001	0.001	0.002	0.001	Topcon	

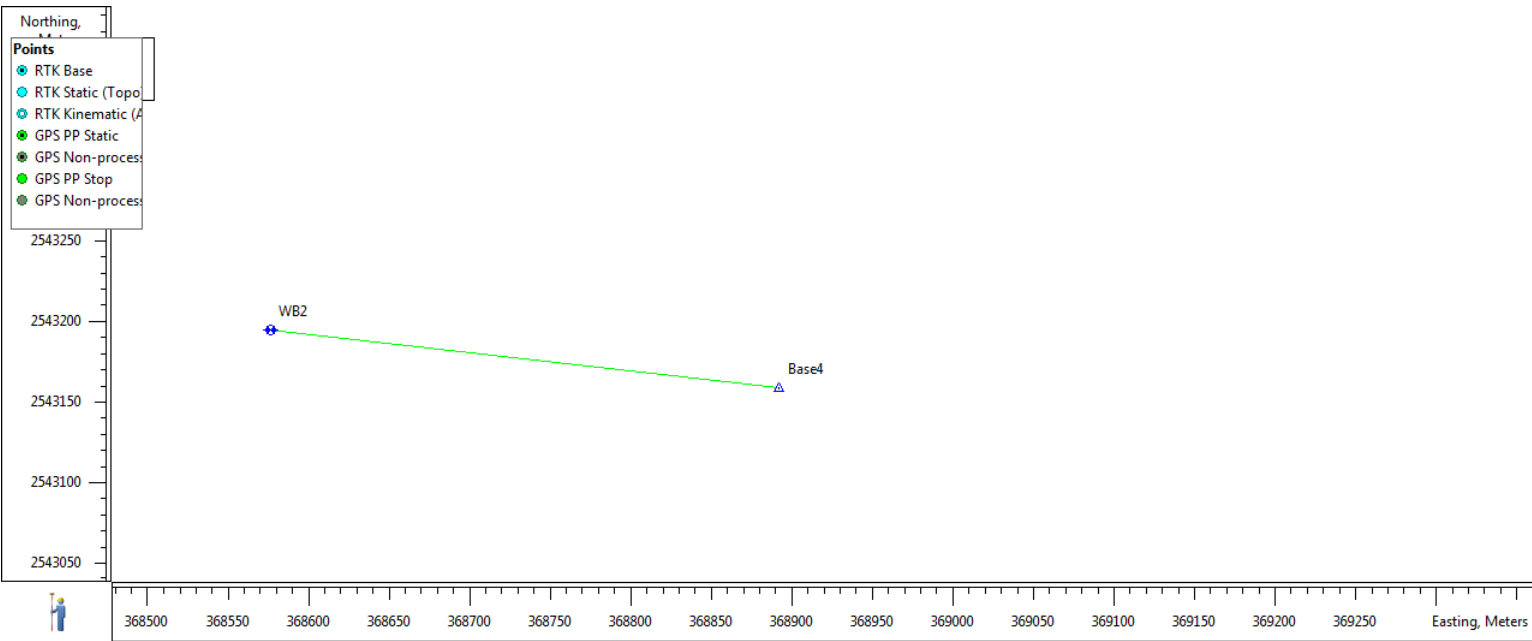
Map View



Occupation View



Observation View



Point Summary					
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude	Code
Base4	2543159.246	368892.062	22°59'29.68319"N	85°43'14.95668"E	
WB2	2543194.571	368575.760	22°59'30.74187"N	85°43'03.83817"E	



Project

Project name: **PARASI GOLD DEPOSIT**
Project folder: **E:\RUNGTA GOLD MINES\121**
Creation time: **05-02-2019 12:48:04**
Created by: **GEMS PROJECTS PVT LTD**
Comment: **RAW DGPS OBSERVATION DATA BY STATIC METHOD**
Linear unit: **Meters**
Angular unit: **DMS**
Projection: **UTMNorth-Zone_45 : 84E to 90E**
Datum: **WGS84**
Geoid: **EGM08**
Time Zone: **(UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi**

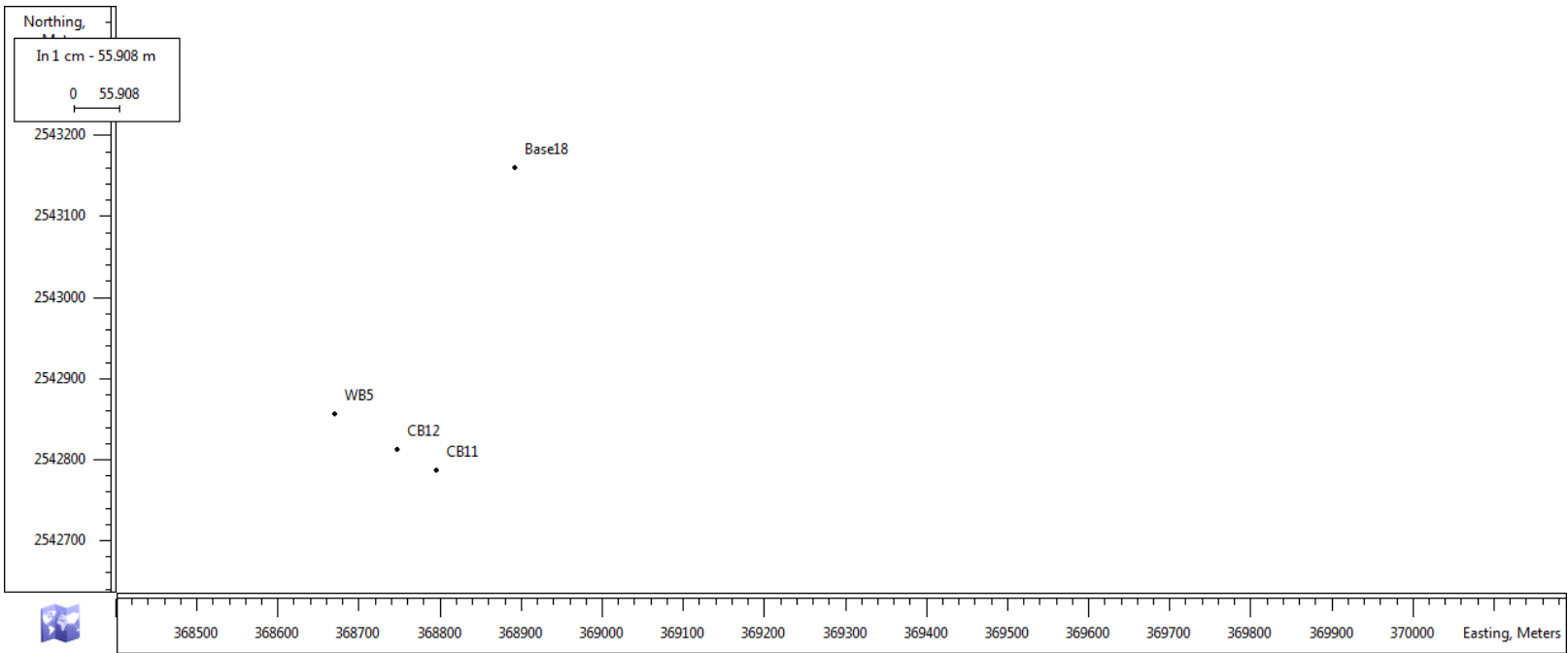
Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

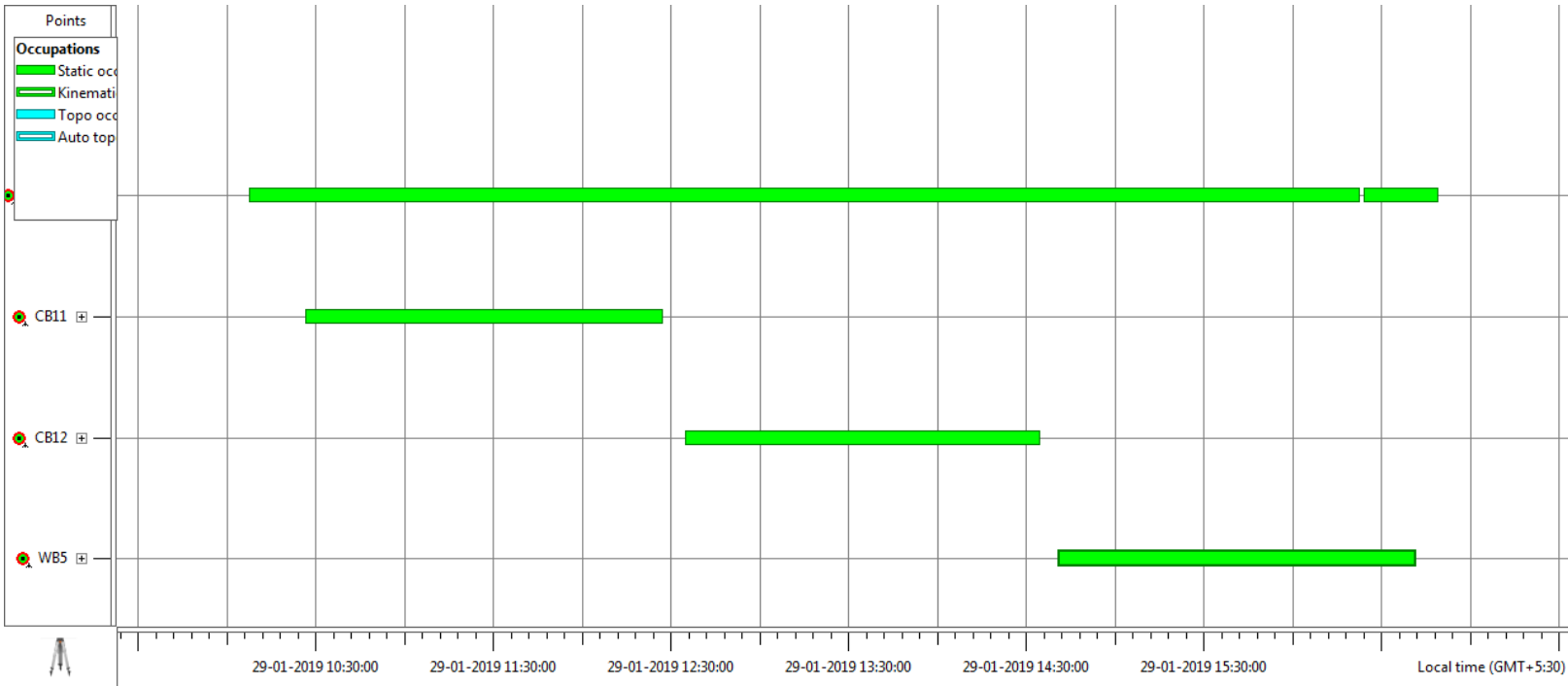
GPS Observations																												
Name	dN (m)	dE (m)	dHt (m)	Horz RMS	Vert RMS	dX (m)	dY (m)	dZ (m)	Azimuth	Elevation Angle	Distance (m)	Start Time	Duration	Solution Type	Epochs	GPS Satellites	GLONASS Satellites	PDOP	HDOP	VDOP	Status	RMS(m)	Base Antenna Type	Base Antenna Height (m)	Base Ant Height Method	Rover Antenna Type	Rover Antenna Height (m)	Rover Ant Height Method
Base18-CB11	-373.533	-96.035	-22.133	0.001	0.002	101.928	118.594	-353.346	193°55'07.5766"	-3°17'07.5643"	386.403	29-01-2019 10:26:25	02:01:00	Fixed	1452	14	8	4.049	1.716	3.667	Adjusted	0.002	GRX2	1.465	Slant	GRX2	1.505	Slant
Base18-CB12	-346.942	-143.688	-20.613	0.001	0.001	149.030	106.220	-328.651	201°59'51.0033"	-3°08'34.4083"	376.171	29-01-2019 12:34:40	02:00:20	Fixed	1444	14	9	18.690	8.016	16.884	Adjusted	0.001	GRX2	1.465	Slant	GRX2	1.608	Slant
Base18-WB5	-303.815	-220.767	-17.001	0.001	0.001	225.294	87.216	-288.151	215°30'15.7356"	-2°35'34.7856"	376.025	29-01-2019 16:24:00	00:17:25	Fixed	209	10	9	6.963	1.794	6.728	Auto-Rejected	0.075	GRX2	1.465	Slant	GRX2	1.620	Slant
Base18-WB5	-303.800	-220.751	-16.855	0.005	0.007	225.287	87.344	-288.080	215°30'13.0817"	-2°34'15.6736"	375.997	29-01-2019 14:41:15	01:41:45	Fixed	1221	14	10	10.637	1.891	10.468	Adjusted	0.018	GRX2	1.465	Slant	GRX2	1.620	Slant

GPS Occupations												
Point Name	Original Name	Start Time	Duration	Method	Receiver	Interval (msec)	NEpoch	Antenna Centering Error (m)	Antenna Height Error (m)	H RMS (m)	V RMS (m)	Receiver Vendor
WB5	Base21	29-01-2019 14:41:15	02:00:10	Static	Q1N98C1FKSW	5000	1442	0.001	0.001	0.000	0.001	Topcon
CB11	Base19	29-01-2019 10:26:25	02:01:00	Static	Q1N98C1FKSW	5000	1451	0.001	0.001	0.002	0.001	Topcon
CB12	Base20	29-01-2019 12:34:40	02:00:20	Static	Q1N98C1FKSW	5000	1443	0.001	0.001	0.001	0.002	Topcon
Base18	Base18	29-01-2019 10:07:35	06:15:25	Static	Q002CX5LQ8I	5000	4497	0.001	0.001	0.001	0.001	Topcon
Base18	Base18	29-01-2019 16:24:00	00:25:20	Static	Q002CX5LQ8I	5000	304	0.001	0.001	0.002	0.003	Topcon

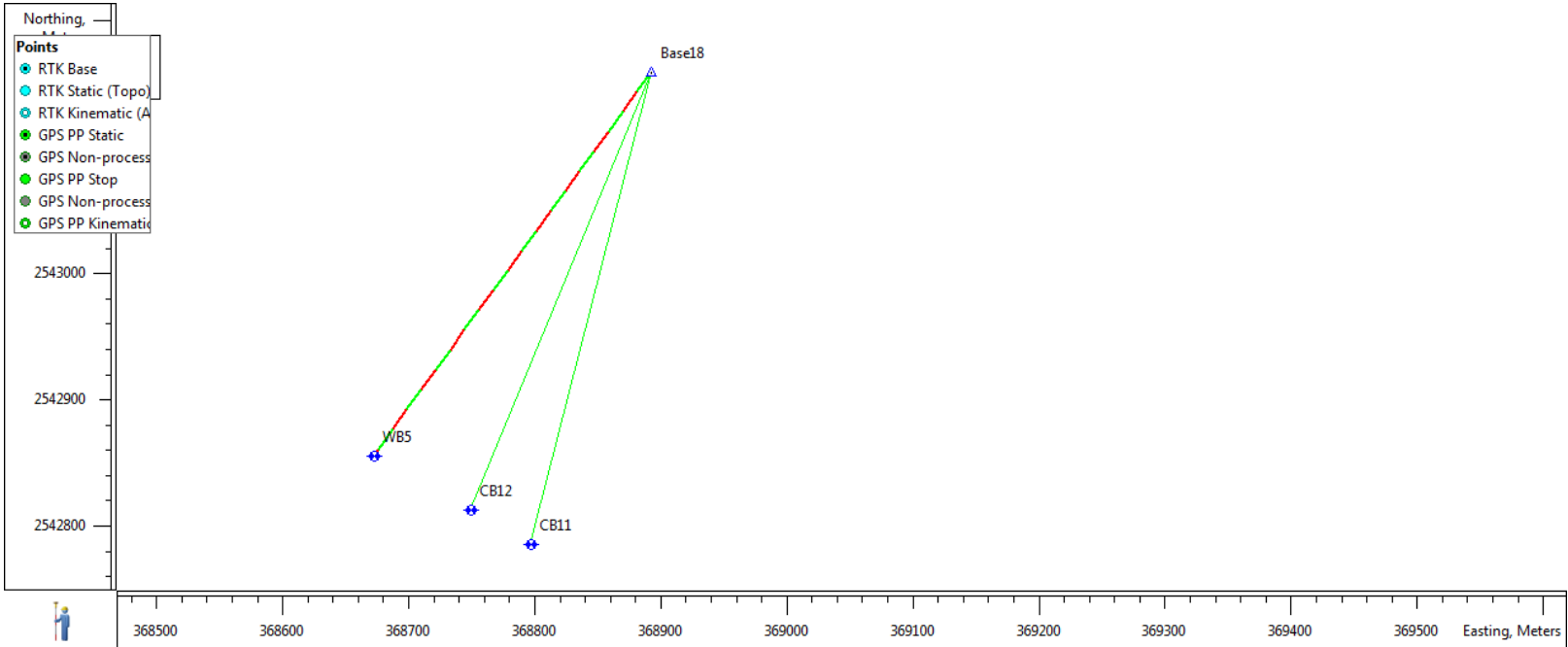
Map View



Occupation View



Observation View



Point Summary				
Name	Ground Northing (m)	Ground Easting (m)	Latitude	Longitude
Base18	2543159.246	368892.062	22°59'29.68319"N	85°43'14.95668"E
CB11	2542785.710	368796.026	22°59'17.51143"N	85°43'11.69864"E
CB12	2542812.301	368748.373	22°59'18.36244"N	85°43'10.01707"E
WB5	2542855.443	368671.309	22°59'19.74322"N	85°43'07.29765"E



Annexure – VIII

**Raw DGPS observation data by RTK Method for Demarcation of
Forest Boundary**

Project

Project name: PARASI GOLD DEPOSIT
Project folder: E:\RUNGTA GOLD MINES\ALL DATA
Creation time: 05-02-2019 12:35:25
Created by: GEMS PROJECTS PVT LTD
Comment: RAW DGPS OBSERVATION DATA BY RTK METHOD
Linear unit: Meters
Angular unit: DMS
Projection: UTMNorth-Zone_45 : 84E to 90E
Datum: WGS84
Geoid: EGM08
Time Zone: (UTC+05:30) Chennai, Kolkata, Mumbai, New Delhi

Project

CONSULTANT: M/s GEMS PROJECTS PVT. LTD.
Created by: SR. SURVEYOR - RAJAT KUMAR KHUNTIA

GPS Occupations

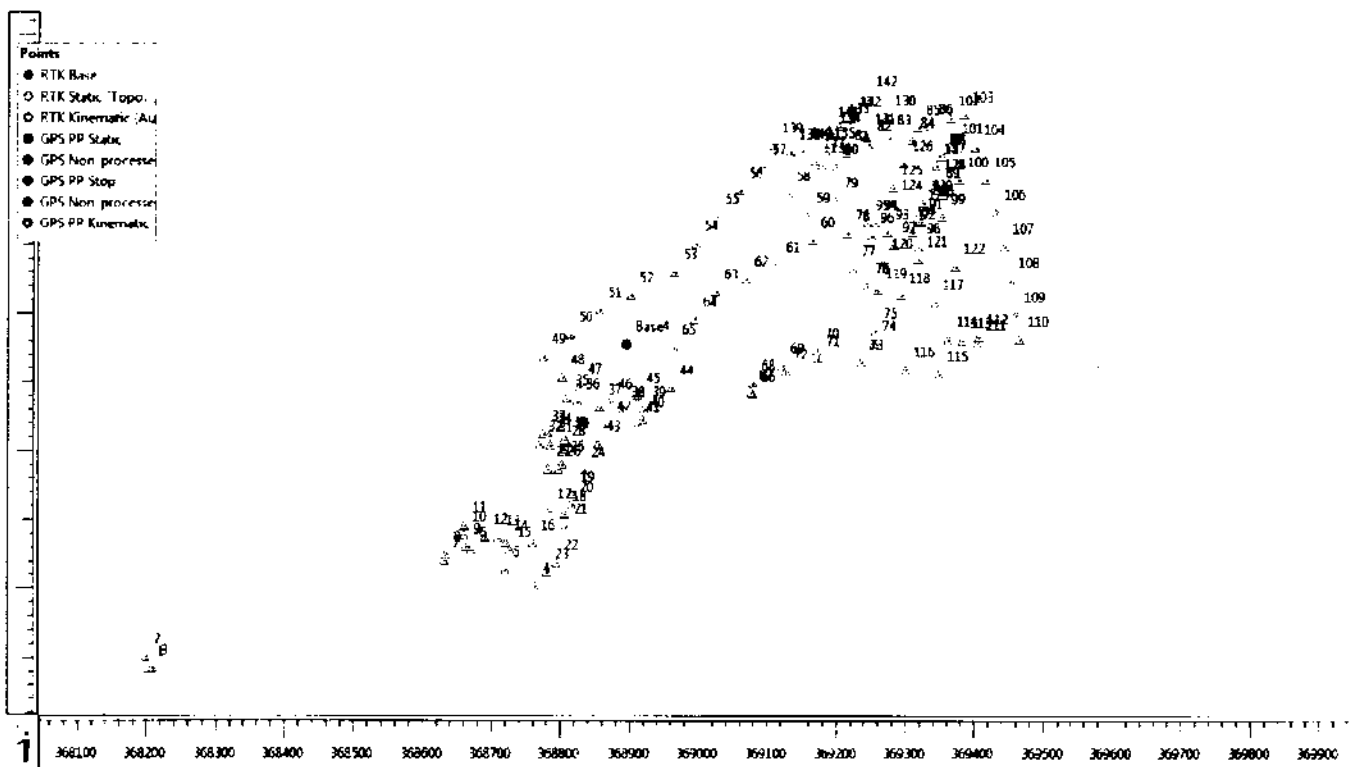
Point Name	Antenna Type	Start Time	Stop Time	Duration	Method	H RMS (m)	V RMS (m)
Base4	GRX2	14-02-2019 12:31:14	14-02-2019 17:17:36	04:46:22	Static	0.001	0.001
1	GRX2	14-02-2019 12:34:36	14-02-2019 12:34:52	00:00:16	Stop	0.001	0.002
2	GRX2	14-02-2019 12:36:43	14-02-2019 12:36:59	00:00:16	Stop	0.002	0.003
3	GRX2	14-02-2019 13:11:24	14-02-2019 13:11:40	00:00:16	Stop	0.001	0.002
4	GRX2	14-02-2019 13:12:26	14-02-2019 13:12:42	00:00:16	Stop	0.002	0.001
5	GRX2	14-02-2019 13:13:37	14-02-2019 13:13:53	00:00:16	Stop	0.001	0.002
6	GRX2	14-02-2019 13:15:26	14-02-2019 13:15:42	00:00:16	Stop	0.002	0.003
7	GRX2	14-02-2019 13:16:56	14-02-2019 13:17:12	00:00:16	Stop	0.001	0.002
8	GRX2	14-02-2019 13:18:21	14-02-2019 13:18:36	00:00:15	Stop	0.002	0.001
9	GRX2	14-02-2019 13:19:34	14-02-2019 13:19:49	00:00:15	Stop	0.001	0.001
9	GRX2	14-02-2019 13:20:13	14-02-2019 13:20:28	00:00:15	Stop	0.002	0.001
10	GRX2	14-02-2019 13:21:18	14-02-2019 13:21:33	00:00:15	Stop	0.001	0.002
11	GRX2	14-02-2019 13:22:52	14-02-2019 13:23:07	00:00:15	Stop	0.003	0.002
12	GRX2	14-02-2019 13:24:06	14-02-2019 13:24:22	00:00:16	Stop	0.002	0.001
13	GRX2	14-02-2019 13:25:14	14-02-2019 13:25:30	00:00:16	Stop	0.001	0.002
14	GRX2	14-02-2019 13:26:37	14-02-2019 13:26:53	00:00:16	Stop	0.002	0.001
15	GRX2	14-02-2019 13:27:58	14-02-2019 13:28:14	00:00:16	Stop	0.001	0.002
16	GRX2	14-02-2019 13:29:08	14-02-2019 13:29:24	00:00:16	Stop	0.002	0.001
17	GRX2	14-02-2019 13:30:18	14-02-2019 13:30:34	00:00:16	Stop	0.001	0.002
18	GRX2	14-02-2019 13:31:57	14-02-2019 13:32:13	00:00:16	Stop	0.002	0.001
19	GRX2	14-02-2019 13:33:35	14-02-2019 13:33:51	00:00:16	Stop	0.001	0.002
20	GRX2	14-02-2019 13:34:52	14-02-2019 13:35:08	00:00:16	Stop	0.002	0.001
21	GRX2	14-02-2019 13:35:39	14-02-2019 13:35:55	00:00:16	Stop	0.001	0.003
22	GRX2	14-02-2019 13:36:44	14-02-2019 13:37:00	00:00:16	Stop	0.002	0.001
23	GRX2	14-02-2019 13:38:32	14-02-2019 13:38:48	00:00:16	Stop	0.001	0.002
24	GRX2	14-02-2019 13:40:03	14-02-2019 13:40:19	00:00:16	Stop	0.002	0.001
25	GRX2	14-02-2019 13:41:46	14-02-2019 13:42:02	00:00:16	Stop	0.001	0.002
26	GRX2	14-02-2019 13:43:01	14-02-2019 13:43:17	00:00:16	Stop	0.002	0.003
27	GRX2	14-02-2019 13:44:25	14-02-2019 13:44:40	00:00:15	Stop	0.002	0.001
28	GRX2	14-02-2019 13:46:09	14-02-2019 13:46:24	00:00:15	Stop	0.001	0.002
29	GRX2	14-02-2019 13:47:13	14-02-2019 13:47:29	00:00:16	Stop	0.002	0.001
30	GRX2	14-02-2019 13:49:17	14-02-2019 13:49:33	00:00:16	Stop	0.003	0.002
31	GRX2	14-02-2019 13:50:13	14-02-2019 13:50:29	00:00:16	Stop	0.002	0.002
32	GRX2	14-02-2019 13:52:01	14-02-2019 13:52:17	00:00:16	Stop	0.001	0.001
33	GRX2	14-02-2019 13:54:22	14-02-2019 13:54:38	00:00:16	Stop	0.002	0.003
34	GRX2	14-02-2019 13:55:50	14-02-2019 13:56:06	00:00:16	Stop	0.001	0.002
35	GRX2	14-02-2019 13:57:34	14-02-2019 13:57:50	00:00:16	Stop	0.002	0.001
36	GRX2	14-02-2019 13:58:48	14-02-2019 13:59:04	00:00:16	Stop	0.001	0.002
37	GRX2	14-02-2019 14:00:38	14-02-2019 14:00:53	00:00:15	Stop	0.002	0.001
38	GRX2	14-02-2019 14:02:11	14-02-2019 14:02:27	00:00:16	Stop	0.001	0.002
39	GRX2	14-02-2019 14:03:17	14-02-2019 14:03:33	00:00:16	Stop	0.002	0.001

40	GRX2	14-02-2019 14:04:25	14-02-2019 14:04:41	00:00:16	Stop	0.001	0.001
41	GRX2	14-02-2019 14:05:30	14-02-2019 14:05:46	00:00:16	Stop	0.002	0.002
42	GRX2	14-02-2019 14:07:25	14-02-2019 14:07:40	00:00:15	Stop	0.001	0.001
43	GRX2	14-02-2019 14:08:48	14-02-2019 14:09:04	00:00:16	Stop	0.002	0.002
44	GRX2	14-02-2019 14:10:26	14-02-2019 14:10:42	00:00:16	Stop	0.003	0.001
45	GRX2	14-02-2019 14:48:53	14-02-2019 14:49:08	00:00:15	Stop	0.002	0.004
46	GRX2	14-02-2019 14:50:42	14-02-2019 14:50:58	00:00:16	Stop	0.003	0.002
47	GRX2	14-02-2019 14:53:22	14-02-2019 14:53:37	00:00:15	Stop	0.001	0.001
48	GRX2	14-02-2019 14:55:17	14-02-2019 14:55:33	00:00:16	Stop	0.002	0.002
49	GRX2	14-02-2019 14:57:01	14-02-2019 14:57:16	00:00:15	Stop	0.001	0.001
50	GRX2	14-02-2019 14:58:36	14-02-2019 14:58:52	00:00:16	Stop	0.002	0.003
51	GRX2	14-02-2019 15:00:00	14-02-2019 15:00:16	00:00:16	Stop	0.004	0.002
52	GRX2	14-02-2019 15:01:32	14-02-2019 15:01:47	00:00:15	Stop	0.001	0.003
53	GRX2	14-02-2019 15:03:05	14-02-2019 15:03:21	00:00:16	Stop	0.002	0.001
54	GRX2	14-02-2019 15:04:34	14-02-2019 15:04:50	00:00:16	Stop	0.002	0.002
55	GRX2	14-02-2019 15:05:43	14-02-2019 15:05:58	00:00:15	Stop	0.002	0.001
56	GRX2	14-02-2019 15:06:48	14-02-2019 15:07:03	00:00:15	Stop	0.002	0.002
57	GRX2	14-02-2019 15:07:46	14-02-2019 15:08:02	00:00:16	Stop	0.002	0.002
58	GRX2	14-02-2019 15:09:07	14-02-2019 15:09:23	00:00:16	Stop	0.001	0.002
59	GRX2	14-02-2019 15:10:28	14-02-2019 15:10:43	00:00:15	Stop	0.003	0.001
60	GRX2	14-02-2019 15:11:59	14-02-2019 15:12:15	00:00:15	Stop	0.002	0.002
61	GRX2	14-02-2019 15:13:24	14-02-2019 15:13:40	00:00:16	Stop	0.001	0.001
62	GRX2	14-02-2019 15:14:41	14-02-2019 15:14:57	00:00:16	Stop	0.002	0.002
63	GRX2	14-02-2019 15:16:11	14-02-2019 15:16:26	00:00:15	Stop	0.003	0.001
64	GRX2	14-02-2019 15:17:38	14-02-2019 15:17:54	00:00:16	Stop	0.002	0.002
65	GRX2	14-02-2019 15:18:56	14-02-2019 15:19:12	00:00:16	Stop	0.003	0.001
66	GRX2	14-02-2019 15:22:24	14-02-2019 15:22:39	00:00:15	Stop	0.002	0.002
67	GRX2	14-02-2019 15:26:19	14-02-2019 15:26:35	00:00:16	Stop	0.003	0.001
68	GRX2	14-02-2019 15:28:38	14-02-2019 15:28:54	00:00:16	Stop	0.002	0.002
69	GRX2	14-02-2019 15:30:18	14-02-2019 15:30:35	00:00:17	Stop	0.003	0.001
70	GRX2	14-02-2019 15:33:50	14-02-2019 15:34:05	00:00:15	Stop	0.002	0.003
71	GRX2	14-02-2019 15:37:42	14-02-2019 15:37:57	00:00:15	Stop	0.002	0.001
72	GRX2	14-02-2019 15:38:56	14-02-2019 15:39:11	00:00:15	Stop	0.003	0.002
73	GRX2	14-02-2019 15:41:56	14-02-2019 15:42:11	00:00:15	Stop	0.001	0.001
74	GRX2	14-02-2019 15:44:48	14-02-2019 15:45:03	00:00:15	Stop	0.002	0.002
75	GRX2	14-02-2019 15:48:53	14-02-2019 15:49:09	00:00:16	Stop	0.001	0.003
76	GRX2	14-02-2019 15:53:28	14-02-2019 15:53:43	00:00:15	Stop	0.002	0.001
77	GRX2	14-02-2019 15:53:43	14-02-2019 15:56:28	00:02:45	Stop	0.003	0.002
	GRX2	14-02-2019 15:56:28	14-02-2019 15:56:44	00:00:16	Stop	0.001	0.003
78	GRX2	14-02-2019 15:56:44	14-02-2019 15:57:17	00:00:33	Stop	0.002	0.001
	GRX2	14-02-2019 15:57:17	14-02-2019 15:57:33	00:00:16	Stop	0.003	0.002
	GRX2	14-02-2019 15:57:33	14-02-2019 15:58:40	00:01:07	Stop	0.001	0.001
79	GRX2	14-02-2019 15:58:40	14-02-2019 15:58:56	00:00:16	Stop	0.002	0.002
	GRX2	14-02-2019 15:58:56	14-02-2019 15:59:47	00:00:51	Stop	0.003	0.001
	GRX2	14-02-2019 15:59:47	14-02-2019 16:00:02	00:00:15	Stop	0.002	0.002
81	GRX2	14-02-2019 16:00:02	14-02-2019 16:01:03	00:01:01	Stop	0.001	0.003
	GRX2	14-02-2019 16:01:03	14-02-2019 16:01:19	00:00:16	Stop	0.004	0.001
	GRX2	14-02-2019 16:01:19	14-02-2019 16:02:28	00:01:09	Stop	0.002	0.002
82	GRX2	14-02-2019 16:02:28	14-02-2019 16:02:43	00:00:15	Stop	0.001	0.003
	GRX2	14-02-2019 16:02:43	14-02-2019 16:03:32	00:00:49	Stop	0.002	0.001
83	GRX2	14-02-2019 16:03:32	14-02-2019 16:03:48	00:00:16	Stop	0.003	0.002
	GRX2	14-02-2019 16:03:48	14-02-2019 16:04:50	00:01:02	Stop	0.001	0.001
84	GRX2	14-02-2019 16:04:50	14-02-2019 16:05:06	00:00:16	Stop	0.002	0.002
	GRX2	14-02-2019 16:05:06	14-02-2019 16:05:57	00:00:51	Stop	0.002	0.002

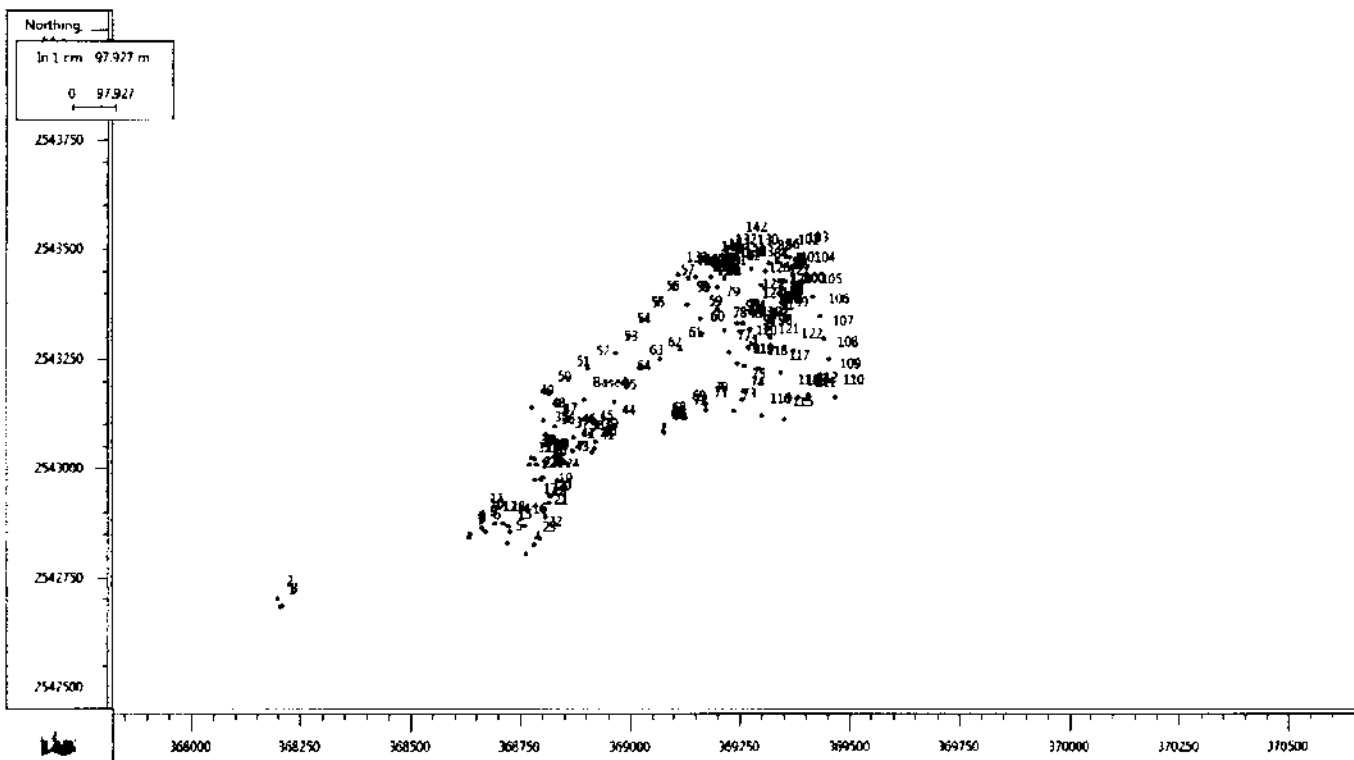
85	GRX2	14-02-2019 16:05:57	14-02-2019 16:06:13	00:00:16	Stop	0.001	0.002
	GRX2	14-02-2019 16:06:13	14-02-2019 16:07:26	00:01:13	Stop	0.002	0.001
86	GRX2	14-02-2019 16:07:26	14-02-2019 16:07:42	00:00:16	Stop	0.001	0.002
87	GRX2	14-02-2019 16:08:14	14-02-2019 16:08:30	00:00:16	Stop	0.003	0.001
88	GRX2	14-02-2019 16:09:04	14-02-2019 16:09:19	00:00:15	Stop	0.002	0.003
89	GRX2	14-02-2019 16:10:15	14-02-2019 16:10:31	00:00:16	Stop	0.001	0.002
90	GRX2	14-02-2019 16:11:34	14-02-2019 16:11:50	00:00:16	Stop	0.003	0.001
91	GRX2	14-02-2019 16:12:27	14-02-2019 16:12:42	00:00:15	Stop	0.002	0.003
92	GRX2	14-02-2019 16:13:50	14-02-2019 16:14:06	00:00:16	Stop	0.001	0.002
93	GRX2	14-02-2019 16:15:14	14-02-2019 16:15:29	00:00:15	Stop	0.002	0.003
94	GRX2	14-02-2019 16:16:13	14-02-2019 16:16:29	00:00:16	Stop	0.001	0.002
95	GRX2	14-02-2019 16:17:00	14-02-2019 16:17:16	00:00:16	Stop	0.003	0.001
96	GRX2	14-02-2019 16:18:04	14-02-2019 16:18:20	00:00:16	Stop	0.002	0.003
97	GRX2	14-02-2019 16:18:57	14-02-2019 16:19:13	00:00:16	Stop	0.001	0.002
98	GRX2	14-02-2019 16:20:04	14-02-2019 16:20:20	00:00:16	Stop	0.003	0.001
99	GRX2	14-02-2019 16:21:12	14-02-2019 16:21:27	00:00:15	Stop	0.002	0.001
100	GRX2	14-02-2019 16:22:29	14-02-2019 16:22:45	00:00:16	Stop	0.003	0.002
101	GRX2	14-02-2019 16:24:10	14-02-2019 16:24:26	00:00:16	Stop	0.001	0.003
102	GRX2	14-02-2019 16:25:07	14-02-2019 16:25:22	00:00:15	Stop	0.002	0.001
103	GRX2	14-02-2019 16:26:55	14-02-2019 16:27:10	00:00:15	Stop	0.003	0.002
104	GRX2	14-02-2019 16:27:37	14-02-2019 16:27:52	00:00:15	Stop	0.001	0.003
105	GRX2	14-02-2019 16:28:23	14-02-2019 16:28:39	00:00:16	Stop	0.002	0.001
106	GRX2	14-02-2019 16:29:15	14-02-2019 16:29:31	00:00:16	Stop	0.001	0.002
107	GRX2	14-02-2019 16:30:27	14-02-2019 16:30:43	00:00:16	Stop	0.002	0.003
108	GRX2	14-02-2019 16:31:33	14-02-2019 16:31:49	00:00:16	Stop	0.001	0.002
109	GRX2	14-02-2019 16:32:50	14-02-2019 16:33:06	00:00:16	Stop	0.002	0.001
110	GRX2	14-02-2019 16:34:02	14-02-2019 16:34:17	00:00:15	Stop	0.001	0.002
111	GRX2	14-02-2019 16:35:06	14-02-2019 16:35:21	00:00:15	Stop	0.003	0.001
112	GRX2	14-02-2019 16:36:22	14-02-2019 16:36:38	00:00:16	Stop	0.002	0.003
113	GRX2	14-02-2019 16:37:36	14-02-2019 16:37:52	00:00:16	Stop	0.001	0.002
114	GRX2	14-02-2019 16:38:44	14-02-2019 16:39:00	00:00:16	Stop	0.002	0.001
115	GRX2	14-02-2019 16:39:51	14-02-2019 16:40:07	00:00:16	Stop	0.003	0.002
116	GRX2	14-02-2019 16:41:03	14-02-2019 16:41:19	00:00:16	Stop	0.001	0.002
117	GRX2	14-02-2019 16:42:27	14-02-2019 16:42:43	00:00:16	Stop	0.002	0.001
118	GRX2	14-02-2019 16:43:34	14-02-2019 16:43:50	00:00:16	Stop	0.003	0.002
119	GRX2	14-02-2019 16:44:39	14-02-2019 16:44:55	00:00:16	Stop	0.001	0.002
120	GRX2	14-02-2019 16:46:15	14-02-2019 16:46:30	00:00:15	Stop	0.002	0.001
121	GRX2	14-02-2019 16:47:26	14-02-2019 16:47:42	00:00:16	Stop	0.001	0.002
122	GRX2	14-02-2019 16:48:53	14-02-2019 16:49:09	00:00:16	Stop	0.002	0.003
123	GRX2	14-02-2019 16:49:57	14-02-2019 16:50:13	00:00:16	Stop	0.001	0.002
124	GRX2	14-02-2019 16:51:02	14-02-2019 16:51:18	00:00:16	Stop	0.002	0.001
125	GRX2	14-02-2019 16:52:26	14-02-2019 16:52:42	00:00:16	Stop	0.001	0.002
126	GRX2	14-02-2019 16:53:29	14-02-2019 16:53:45	00:00:16	Stop	0.003	0.001
127	GRX2	14-02-2019 16:54:44	14-02-2019 16:55:00	00:00:16	Stop	0.001	0.002
128	GRX2	14-02-2019 16:56:03	14-02-2019 16:56:18	00:00:15	Stop	0.002	0.001
129	GRX2	14-02-2019 16:57:12	14-02-2019 16:57:29	00:00:17	Stop	0.001	0.002
130	GRX2	14-02-2019 16:58:15	14-02-2019 16:58:30	00:00:15	Stop	0.003	0.001
131	GRX2	14-02-2019 16:59:31	14-02-2019 16:59:46	00:00:15	Stop	0.002	0.003
132	GRX2	14-02-2019 17:00:20	14-02-2019 17:00:36	00:00:16	Stop	0.001	0.002
133	GRX2	14-02-2019 17:01:19	14-02-2019 17:01:35	00:00:16	Stop	0.002	0.001
134	GRX2	14-02-2019 17:03:02	14-02-2019 17:03:18	00:00:16	Stop	0.003	0.002
135	GRX2	14-02-2019 17:03:53	14-02-2019 17:04:08	00:00:15	Stop	0.001	0.002
136	GRX2	14-02-2019 17:04:39	14-02-2019 17:04:55	00:00:16	Stop	0.002	0.001
137	GRX2	14-02-2019 17:05:38	14-02-2019 17:05:53	00:00:15	Stop	0.003	0.002

138	GRX2	14-02-2019 17:06:39	14-02-2019 17:06:55	00:00:16	Stop	0.001	0.002
139	GRX2	14-02-2019 17:07:39	14-02-2019 17:07:54	00:00:15	Stop	0.002	0.001
140	GRX2	14-02-2019 17:08:41	14-02-2019 17:08:57	00:00:16	Stop	0.001	0.002
141	GRX2	14-02-2019 17:09:39	14-02-2019 17:09:54	00:00:15	Stop	0.002	0.001
142	GRX2	14-02-2019 17:10:34	14-02-2019 17:10:49	00:00:15	Stop	0.001	0.002

Observation View



Map View



Point Summary

Name	Ground Northing (m)	Ground Easting (m)	WGS84 Latitude	WGS84 Longitude	Code
1	2542683.274	368204.275	22°59'14.01274"N	85°42'50.95002"E	F1
2	2542700.518	368199.437	22°59'14.57200"N	85°42'50.77482"E	F2
3	2542884.908	368208.707	22°59'14.06713"N	85°42'51.10515"E	F3
4	2542803.840	368763.535	22°59'18.09168"N	85°43'10.55212"E	F4
5	2542828.251	368719.898	22°59'18.87293"N	85°43'09.01225"E	F5
6	2542855.443	368671.309	22°59'19.74321"N	85°43'07.28764"E	F6
7	2542840.888	368631.826	22°59'19.25878"N	85°43'05.91560"E	F7
8	2542849.675	368634.908	22°59'19.55184"N	85°43'06.02107"E	F8

9	2542861.968	368662.507	22°59'19.95285"N	85°43'06.98654"E	F9
10	2542877.855	368661.499	22°59'20.46909"N	85°43'06.94627"E	F10
11	2542890.952	368661.631	22°59'20.89494"N	85°43'06.94688"E	F11
12	2542874.481	368691.860	22°59'20.36802"N	85°43'08.01348"E	F12
13	2542873.026	368710.183	22°59'20.32591"N	85°43'08.65737"E	F13
14	2542867.007	368722.420	22°59'20.13370"N	85°43'09.08893"E	F14
15	2542855.894	368726.322	22°59'19.77350"N	85°43'09.22937"E	F15
16	2542866.808	368759.792	22°59'20.13784"N	85°43'10.40137"E	F16
17	2542911.986	368784.001	22°59'21.61355"N	85°43'11.23766"E	F17
18	2542908.679	368805.300	22°59'21.51207"N	85°43'11.98663"E	F18
19	2542937.849	368818.530	22°59'22.46421"N	85°43'12.44228"E	F19
20	2542921.776	368816.215	22°59'21.94098"N	85°43'12.36591"E	F20
21	2542889.113	368807.359	22°59'20.87652"N	85°43'12.06493"E	F21
22	2542837.838	368794.122	22°59'19.20563"N	85°43'11.61580"E	F22
23	2542824.740	368780.959	22°59'18.77612"N	85°43'11.15758"E	F23
24	2542872.065	368833.640	22°59'23.58094"N	85°43'12.96241"E	F24
25	2542980.400	368802.763	22°59'23.84317"N	85°43'11.87556"E	F25
26	2542973.970	368798.318	22°59'23.63285"N	85°43'11.72143"E	F26
27	2542974.367	368783.157	22°59'23.64146"N	85°43'11.18890"E	F27
28	2543003.418	368804.509	22°59'24.59203"N	85°43'11.92982"E	F28
29	2543012.943	368809.589	22°59'24.90315"N	85°43'12.10529"E	F29
30	2543016.436	368805.462	22°59'26.01555"N	85°43'11.95929"E	F30
31	2543007.149	368786.491	22°59'24.70822"N	85°43'11.29594"E	F31
32	2543008.816	368771.331	22°59'24.75812"N	85°43'10.76305"E	F32
33	2543024.611	368776.490	22°59'25.27311"N	85°43'10.93938"E	F33
34	2543021.754	368784.904	22°59'25.18261"N	85°43'11.23573"E	F34
35	2543077.783	368808.796	22°59'27.01135"N	85°43'12.05757"E	F35
36	2543071.840	368824.274	22°59'26.82219"N	85°43'12.80294"E	F36
37	2543062.955	368856.543	22°59'26.54248"N	85°43'13.73885"E	F37
38	2543059.686	368890.181	22°59'26.44573"N	85°43'14.92112"E	F38
39	2543060.013	368920.635	22°59'26.46500"N	85°43'15.99048"E	F39
40	2543045.646	368919.048	22°59'25.99744"N	85°43'15.93914"E	F40
41	2543038.264	368912.460	22°59'25.75557"N	85°43'15.71005"E	F41
42	2543039.375	368889.758	22°59'25.77958"N	85°43'14.21008"E	F42
43	2543010.403	368855.151	22°59'24.83349"N	85°43'13.70607"E	F43
44	2543092.887	368961.725	22°59'27.54546"N	85°43'17.42338"E	F44
45	2543081.098	368912.151	22°59'27.14812"N	85°43'15.68610"E	F45
46	2543071.588	368872.163	22°59'26.82758"N	85°43'14.28475"E	F46
47	2543094.437	368827.655	22°59'27.55783"N	85°43'12.71475"E	F47
48	2543107.620	368801.975	22°59'27.97916"N	85°43'11.80889"E	F48
49	2543137.734	368775.061	22°59'28.95069"N	85°43'10.85453"E	F49
50	2543170.358	368814.855	22°59'30.02257"N	85°43'12.24198"E	F50
51	2543205.296	368857.471	22°59'31.17067"N	85°43'13.72785"E	F51
52	2543227.799	368901.989	22°59'31.91482"N	85°43'15.28430"E	F52
53	2543261.476	368965.488	22°59'33.02774"N	85°43'17.50390"E	F53
54	2543300.826	368996.170	22°59'34.31579"N	85°43'18.56936"E	F54
55	2543340.153	369026.835	22°59'35.60309"N	85°43'19.63421"E	F55
56	2543377.355	369061.394	22°59'36.82241"N	85°43'20.83646"E	F56
57	2543411.875	369095.075	22°59'37.95752"N	85°43'22.00868"E	F57
58	2543374.023	369129.706	22°59'36.73342"N	85°43'23.23652"E	F58
59	2543342.390	369158.575	22°59'35.71313"N	85°43'24.25994"E	F59
60	2543306.984	369164.322	22°59'34.56362"N	85°43'24.47259"E	F60
61	2543270.133	369114.367	22°59'33.35137"N	85°43'22.72953"E	F61
62	2543250.349	369068.299	22°59'32.69510"N	85°43'21.11779"E	F62
63	2543231.794	369025.093	22°59'32.07960"N	85°43'19.60618"E	F63
64	2543182.438	368995.619	22°59'30.79169"N	85°43'18.58319"E	F64
65	2543151.600	368965.036	22°59'29.45529"N	85°43'17.52167"E	F65
66	2543082.763	369078.715	22°59'27.24944"N	85°43'21.53483"E	F66
67	2543086.136	369075.937	22°59'27.35832"N	85°43'21.43624"E	F67
68	2543098.241	369076.516	22°59'27.75261"N	85°43'21.52311"E	F68

	2543123.997	369121.372	22°59'28.60213"N	85°43'23.02021"E	F69
70	2543146.461	369172.047	22°59'29.34683"N	85°43'24.79292"E	F70
71	2543133.960	369172.774	22°59'28.94060"N	85°43'24.82227"E	F71
72	2543115.373	369126.358	22°59'28.32316"N	85°43'23.19795"E	F72
73	2543129.827	369235.980	22°59'28.82411"N	85°43'27.04315"E	F73
74	2543156.772	369254.973	22°59'29.70552"N	85°43'27.70191"E	F74
75	2543175.368	369256.621	22°59'30.31059"N	85°43'27.75410"E	F75
76	2543239.653	369244.456	22°59'32.39720"N	85°43'27.30726"E	F76
77	2543266.376	369224.877	22°59'33.26049"N	85°43'26.61153"E	F77
78	2543315.654	369215.352	22°59'34.85994"N	85°43'26.26198"E	F78
79	2543363.030	369199.366	22°59'36.39572"N	85°43'25.68611"E	F79
80	2543413.180	369198.755	22°59'38.02539"N	85°43'25.64933"E	F80
81	2543433.259	369214.628	22°59'38.68335"N	85°43'26.20061"E	F81
82	2543445.684	369246.166	22°59'39.09656"N	85°43'27.30437"E	F82
83	2543454.425	369275.482	22°59'39.38872"N	85°43'28.33122"E	F83
84	2543451.409	369307.920	22°59'39.29983"N	85°43'29.47130"E	F84
85	2543469.563	369315.995	22°59'39.89234"N	85°43'29.74934"E	F85
86	2543471.951	369335.209	22°59'39.97542"N	85°43'30.42337"E	F86
87	2543427.896	369350.528	22°59'38.54748"N	85°43'30.97479"E	F87
88	2543427.660	369353.465	22°59'38.54057"N	85°43'31.07800"E	F88
89	2543378.380	369345.012	22°59'36.83587"N	85°43'30.79619"E	F89
90	2543352.492	369336.400	22°59'36.09186"N	85°43'30.50166"E	F90
91	2543333.695	369322.578	22°59'35.47682"N	85°43'30.02200"E	F91
92	2543317.805	369310.047	22°59'34.95666"N	85°43'29.58679"E	F92
93	2543317.487	369273.455	22°59'34.83597"N	85°43'28.30186"E	F93
94	2543330.759	369256.485	22°59'35.36268"N	85°43'27.70188"E	F94
95	2543331.394	369244.420	22°59'35.37991"N	85°43'27.27797"E	F95
96	2543313.739	369250.743	22°59'34.80789"N	85°43'27.50541"E	F96
97	2543299.356	369282.807	22°59'34.34913"N	85°43'28.63582"E	F97
98	2543298.341	369319.244	22°59'34.32643"N	85°43'28.91571"E	F98
99	2543340.410	369354.487	22°59'35.70416"N	85°43'31.14052"E	F99
100	2543393.591	369376.791	22°59'37.43950"N	85°43'31.80756"E	F100
101	2543443.033	369389.345	22°59'38.04487"N	85°43'31.63098"E	F101
102	2543482.782	369384.104	22°59'40.33507"N	85°43'31.43460"E	F102
103	2543488.357	369384.499	22°59'40.52274"N	85°43'32.14933"E	F103
104	2543441.295	369401.000	22°59'38.99731"N	85°43'32.74318"E	F104
105	2543393.412	369415.836	22°59'37.44471"N	85°43'33.27880"E	F105
106	2543345.940	369431.532	22°59'35.90572"N	85°43'33.84449"E	F106
107	2543297.507	369443.953	22°59'34.33455"N	85°43'34.29546"E	F107
108	2543248.228	369452.411	22°59'32.73476"N	85°43'34.60752"E	F108
109	2543198.794	369459.913	22°59'31.12967"N	85°43'34.88604"E	F109
110	2543163.032	369465.374	22°59'29.96850"N	85°43'35.08873"E	F110
111	2543157.212	369403.858	22°59'28.76191"N	85°43'32.93022"E	F111
112	2543166.274	369406.041	22°59'30.05715"N	85°43'33.00412"E	F112
113	2543161.537	369382.477	22°59'29.89648"N	85°43'32.17806"E	F113
114	2543182.589	369363.178	22°59'29.92458"N	85°43'31.50001"E	F114
115	2543111.703	369349.486	22°59'28.26694"N	85°43'31.03471"E	F115
116	2543119.357	369300.075	22°59'28.50183"N	85°43'29.29719"E	F116
117	2543217.697	369341.744	22°59'31.71087"N	85°43'30.73048"E	F117
118	2543227.845	369292.784	22°59'32.02696"N	85°43'29.00803"E	F118
119	2543233.148	369259.405	22°59'32.18994"N	85°43'27.83422"E	F119
120	2543276.037	369268.639	22°59'33.58697"N	85°43'28.14539"E	F120
121	2543279.292	369318.778	22°59'33.70698"N	85°43'29.90516"E	F121
122	2543268.814	369372.012	22°59'33.36135"N	85°43'31.77781"E	F122
123	2543346.179	369320.279	22°59'35.88205"N	85°43'29.93745"E	F123
124	2543360.201	369281.782	22°59'36.32706"N	85°43'28.58124"E	F124
125	2543381.434	369282.113	22°59'37.01749"N	85°43'28.58638"E	F125
126	2543418.211	369296.136	22°59'38.21718"N	85°43'28.06761"E	F126
127	2543414.573	369342.967	22°59'38.11211"N	85°43'30.71333"E	F127
128	2543391.092	369344.423	22°59'37.34910"N	85°43'30.77163"E	F128

	2543360.731	369325.240	22°59'36.35657"N	85°43'30.10723"E	F129
130	2543482.832	369270.571	22°59'40.31091"N	85°43'28.15008"E	F130
131	2543458.872	369242.428	22°59'39.45243"N	85°43'27.16974"E	F131
132	2543480.980	369220.997	22°59'40.23602"N	85°43'26.40970"E	F132
133	2543470.770	369203.552	22°59'39.89979"N	85°43'25.60018"E	F133
134	2543458.021	369192.819	22°59'39.48225"N	85°43'25.42716"E	F134
135	2543436.272	369183.135	22°59'38.77240"N	85°43'25.09372"E	F135
136	2543413.412	369178.611	22°59'38.02789"N	85°43'24.94184"E	F136
137	2543420.928	369167.702	22°59'38.26916"N	85°43'24.55644"E	F137
138	2543433.611	369132.872	22°59'38.67166"N	85°43'23.32940"E	F138
139	2543443.450	369108.175	22°59'38.98456"N	85°43'22.45908"E	F139
140	2543435.897	369150.154	22°59'38.75087"N	85°43'23.93561"E	F140
141	2543466.809	369189.453	22°59'39.76702"N	85°43'25.30626"E	F141
142	2543510.243	369244.672	22°59'41.19478"N	85°43'27.23218"E	F142
Base4	2543156.739	368896.239	22°59'29.60287"N	85°43'15.10413"E	Base4



Annexure – IX

**Photograph Showing the DGPS observations over the
Base by Static method.**

PHOTOGRAPHS SHOWING THE DGPS OBSERVATIONS
OVER THE BASE BY STATIC METHOD.



Annexure – X

Photograph Showing DGPS survey over the proposed ML boundary and Forest area of Parasi Gold Deposit area.

PHOTOGRAPHS SHOWING DGPS SURVEY OVER THE PROPOSED ML
BOUNDARY AND FOREST AREA OF PARASI GOLD DEPOSIT AREA.



Annexure – XI

**Coordinates of Boundary Pillars (20 nos) from WB1 TO WB6,
CB1 TO CB12 & EB1 TO EB6 along the Boundary of Parasi
Gold Deposit**

COORDINATES OF BONDARY PILLARS (20 nos.) FROM WB1 TO WB6, CB1 TO CB12 & EB1 TO EB6 ALONG THE BOUNDARY OF PARASI GOLD DEPOSIT

SI.NO	NORTHING	EASTING	LATITUDE	LONGITUDE	CODE
1	2543265.247	368621.363	22° 59' 33.053" N	85° 43' 5.418" E	WB3/CB1
2	2543313.002	368651.708	22° 59' 34.614" N	85° 43' 6.469" E	CB2
3	2543333.809	368764.060	22° 59' 35.322" N	85° 43' 10.408" E	CB3
4	2543387.160	368919.674	22° 59' 37.101" N	85° 43' 15.857" E	CB4
5	2543415.584	369051.767	22° 59' 38.063" N	85° 43' 20.487" E	CB5
6	2543444.653	369101.492	22° 59' 39.022" N	85° 43' 22.224" E	CB6/7
7	2543435.896	369150.151	22° 59' 38.751" N	85° 43' 23.936" E	CB8
8	2543510.245	369244.667	22° 59' 41.195" N	85° 43' 27.232" E	CB9/EB1
9	2542785.710	368796.026	22° 59' 17.511" N	85° 43' 11.699" E	CB11
10	2542812.301	368748.373	22° 59' 18.362" N	85° 43' 10.017" E	CB12/WB4
11	2543462.398	369289.879	22° 59' 39.652" N	85° 43' 28.834" E	EB2A
12	2543589.103	369751.707	22° 59' 43.902" N	85° 43' 45.014" E	EB3
13	2543174.467	369867.935	22° 59' 30.454" N	85° 43' 49.222" E	EB4
14	2543047.409	368102.123	22° 59' 25.822" N	85° 42' 47.251" E	WB1
15	2543194.571	368575.760	22° 59' 30.742" N	85° 43' 3.838" E	WB2
16	2542855.443	368671.309	22° 59' 19.743" N	85° 43' 7.298" E	WB5
17	2542683.274	368204.275	22° 59' 14.013" N	85° 42' 50.950" E	WB6
18	2543063.567	369379.009	22° 59' 26.710" N	85° 43' 32.086" E	EB6
19	2543058.771	369371.263	22° 59' 26.552" N	85° 43' 31.816" E	EB7/ CB10
20	2543058.470	369430.489	22° 59' 26.559" N	85° 43' 33.896" E	EB5

Annexure – XII

**Fore Bearing, Back Bearing and Pillar to Pillar distance of
Boundary Pillars (20 nos) from WB1 TO WB6 , CB1 TO CB12 &
EB1 TO EB6 along the Boundary of Parasi Gold Deposit.
(Traverse Station data)**

**FORE BEARING, BACK BEARING, PILLAR TO PILLAR DISTANCE OF
BOUNDARY PILLARS (20 nos.) FROM WB1 TO WB6, CB1 TO CB12 &
EB1 TO EB6 ALONG THE BOUNDARY OF PARASI GOLD DEPOSIT.
(TRAVERSE STATION DATA)**

Sl. NO.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	WB3/CB1	CB2	56.58	N 32°25'59" E	S 32°25'59" W
2	CB2	CB3	114.26	N 79°30'29" E	S 79°30'29" W
3	CB3	CB4	164.51	N 71°04'34" E	S 71°04'34" W
4	CB4	CB5	135.12	N 77°51'22" E	S 77°51'22" W
5	CB5	CB6/7	57.6	N 59°41'23" E	S 59°41'23" W
6	CB6/7	CB8	49.44	S 79°47'52" E	N 79°47'52" W
7	CB8	CB9/EB1	120.25	N 51°48'37" E	S 51°48'37" W
8	CB9/EB1	EB2A	65.83	S 43°22'41" E	N 43°22'41" W
9	EB2A	EB3	478.89	N 74°39'29" E	S 74°39'29" W
10	EB3	EB4	430.62	S 15°39'32" E	N 15°39'32" W
11	EB4	EB5	452.56	S 75°08'55" W	N 75°08'55" E
12	EB5	EB6	51.73	N 84°20'44" W	S 84°20'44" E
13	EB6	EB7/CB10	9.11	S 58°14'19" W	N 58°14'19" E
14	EB7/CB10	CB11	636.76	S 64°36'24" W	N 64°36'24" E
15	CB11	CB12/WB4	54.57	N 60°50'16" W	S 60°50'16" E
16	CB12/WB4	WB5	88.32	N 60°45'32" W	S 60°45'32" E
17	WB5	WB6	497.76	S 69°45'50" W	N 69°45'50" E
18	WB6	WB1	378.19	N 15°40'14" W	S 15°40'14" E
19	WB1	WB2	495.97	N 72°44'23" E	S 72°44'23" W
20	WB2	CB1	84.11	N 32°49'54" E	S 32°49'54" W

Annexure – XIII

**Coordinates of Forest Pillars within the Proposed Mining Lease
area of Parasi Gold Deposit from pillar F-1 to pillar F-142.**

**COORDINATES OF FOREST PILLARS WITHIN THE PROPOSED MINING LEASE
AREA OF PARASI GOLD DEPOSIT FROM PILLAR F1 TO PILLAR F142**

Sl. No.	Northing	Easting	Latitude	Longitude	Code
1	2543156.739	368896.239	22° 59' 29.60"	85° 43' 15.10"	Base4
2	2542683.274	368204.275	22° 59' 14.01"	85° 42' 50.95"	F1
3	2542700.518	368199.437	22° 59' 14.57"	85° 42' 50.77"	F2
4	2542684.908	368208.707	22° 59' 14.07"	85° 42' 51.11"	F3
5	2542803.840	368763.535	22° 59' 18.09"	85° 43' 10.55"	F4
6	2542828.251	368719.898	22° 59' 18.87"	85° 43' 9.01"	F5
7	2542855.443	368671.309	22° 59' 19.74"	85° 43' 7.30"	F6
8	2542840.888	368631.826	22° 59' 19.26"	85° 43' 5.92"	F7
9	2542849.875	368634.908	22° 59' 19.55"	85° 43' 6.02"	F8
10	2542861.968	368662.507	22° 59' 19.95"	85° 43' 6.99"	F9
11	2542877.855	368661.499	22° 59' 20.47"	85° 43' 6.95"	F10
12	2542890.952	368661.631	22° 59' 20.89"	85° 43' 6.95"	F11
13	2542874.481	368691.860	22° 59' 20.37"	85° 43' 8.01"	F12
14	2542873.026	368710.183	22° 59' 20.33"	85° 43' 8.66"	F13
15	2542867.007	368722.420	22° 59' 20.13"	85° 43' 9.09"	F14
16	2542855.894	368726.322	22° 59' 19.77"	85° 43' 9.23"	F15
17	2542866.808	368759.792	22° 59' 20.14"	85° 43' 10.40"	F16
18	2542911.986	368784.001	22° 59' 21.61"	85° 43' 11.24"	F17
19	2542908.679	368805.300	22° 59' 21.51"	85° 43' 11.99"	F18
20	2542937.849	368818.530	22° 59' 22.46"	85° 43' 12.44"	F19
21	2542921.776	368816.215	22° 59' 21.94"	85° 43' 12.37"	F20
22	2542889.113	368807.359	22° 59' 20.88"	85° 43' 12.06"	F21
23	2542837.836	368794.122	22° 59' 19.21"	85° 43' 11.62"	F22
24	2542824.740	368780.959	22° 59' 18.78"	85° 43' 11.16"	F23
25	2542972.065	368833.640	22° 59' 23.58"	85° 43' 12.96"	F24
26	2542980.400	368802.763	22° 59' 23.84"	85° 43' 11.88"	F25
27	2542973.970	368798.318	22° 59' 23.63"	85° 43' 11.72"	F26
28	2542974.367	368783.157	22° 59' 23.64"	85° 43' 11.19"	F27
29	2543003.418	368804.509	22° 59' 24.59"	85° 43' 11.93"	F28
30	2543012.943	368809.589	22° 59' 24.90"	85° 43' 12.11"	F29
31	2543016.436	368805.462	22° 59' 25.02"	85° 43' 11.96"	F30
32	2543007.149	368786.491	22° 59' 24.71"	85° 43' 11.30"	F31
33	2543008.816	368771.331	22° 59' 24.76"	85° 43' 10.76"	F32

34	2543024.611	368776.490	22° 59' 25.27"	85° 43' 10.94"	F33
35	2543021.754	368784.904	22° 59' 25.18"	85° 43' 11.24"	F34
36	2543077.793	368808.796	22° 59' 27.01"	85° 43' 12.06"	F35
37	2543071.840	368824.274	22° 59' 26.82"	85° 43' 12.60"	F36
38	2543062.955	368856.543	22° 59' 26.54"	85° 43' 13.74"	F37
39	2543059.686	368890.181	22° 59' 26.45"	85° 43' 14.92"	F38
40	2543060.013	368920.635	22° 59' 26.46"	85° 43' 15.99"	F39
41	2543045.646	368919.048	22° 59' 26.00"	85° 43' 15.94"	F40
42	2543038.264	368912.460	22° 59' 25.76"	85° 43' 15.71"	F41
43	2543039.375	368869.756	22° 59' 25.78"	85° 43' 14.21"	F42
44	2543010.403	368855.151	22° 59' 24.83"	85° 43' 13.71"	F43
45	2543092.887	368961.725	22° 59' 27.55"	85° 43' 17.42"	F44
46	2543081.098	368912.151	22° 59' 27.15"	85° 43' 15.69"	F45
47	2543071.588	368872.163	22° 59' 26.83"	85° 43' 14.28"	F46
48	2543094.437	368827.655	22° 59' 27.56"	85° 43' 12.71"	F47
49	2543107.620	368801.975	22° 59' 27.98"	85° 43' 11.81"	F48
50	2543137.734	368775.061	22° 59' 28.95"	85° 43' 10.85"	F49
51	2543170.358	368814.855	22° 59' 30.02"	85° 43' 12.24"	F50
52	2543205.296	368857.471	22° 59' 31.17"	85° 43' 13.73"	F51
53	2543227.799	368901.989	22° 59' 31.91"	85° 43' 15.28"	F52
54	2543261.476	368965.488	22° 59' 33.03"	85° 43' 17.50"	F53
55	2543300.826	368996.170	22° 59' 34.32"	85° 43' 18.57"	F54
56	2543340.153	369026.835	22° 59' 35.60"	85° 43' 19.63"	F55
57	2543377.355	369061.394	22° 59' 36.82"	85° 43' 20.84"	F56
58	2543411.975	369095.075	22° 59' 37.96"	85° 43' 22.01"	F57
59	2543374.023	369129.708	22° 59' 36.73"	85° 43' 23.24"	F58
60	2543342.390	369158.575	22° 59' 35.71"	85° 43' 24.26"	F59
61	2543306.984	369164.322	22° 59' 34.56"	85° 43' 24.47"	F60
62	2543270.133	369114.367	22° 59' 33.35"	85° 43' 22.73"	F61
63	2543250.349	369068.299	22° 59' 32.70"	85° 43' 21.12"	F62
64	2543231.794	369025.093	22° 59' 32.08"	85° 43' 19.61"	F63
65	2543192.438	368995.619	22° 59' 30.79"	85° 43' 18.58"	F64
66	2543151.600	368965.036	22° 59' 29.46"	85° 43' 17.52"	F65
67	2543082.763	369078.715	22° 59' 27.25"	85° 43' 21.53"	F66
68	2543086.136	369075.937	22° 59' 27.36"	85° 43' 21.44"	F67
69	2543098.241	369078.516	22° 59' 27.75"	85° 43' 21.52"	F68
70	2543123.997	369121.372	22° 59' 28.60"	85° 43' 23.02"	F69

71	2543146.461	369172.047	22° 59' 29.35"	85° 43' 24.79"	F70
72	2543133.960	369172.774	22° 59' 28.94"	85° 43' 24.82"	F71
73	2543115.373	369126.358	22° 59' 28.32"	85° 43' 23.20"	F72
74	2543129.827	369235.980	22° 59' 28.82"	85° 43' 27.04"	F73
75	2543156.772	369254.973	22° 59' 29.71"	85° 43' 27.70"	F74
76	2543175.368	369256.621	22° 59' 30.31"	85° 43' 27.75"	F75
77	2543239.653	369244.456	22° 59' 32.40"	85° 43' 27.31"	F76
78	2543266.376	369224.877	22° 59' 33.26"	85° 43' 26.61"	F77
79	2543315.654	369215.352	22° 59' 34.86"	85° 43' 26.26"	F78
80	2543363.030	369199.366	22° 59' 36.40"	85° 43' 25.69"	F79
81	2543413.160	369198.755	22° 59' 38.03"	85° 43' 25.65"	F80
82	2543433.259	369214.628	22° 59' 38.68"	85° 43' 26.20"	F81
83	2543445.694	369246.166	22° 59' 39.10"	85° 43' 27.30"	F82
84	2543454.425	369275.482	22° 59' 39.39"	85° 43' 28.33"	F83
85	2543451.409	369307.920	22° 59' 39.30"	85° 43' 29.47"	F84
86	2543469.563	369315.995	22° 59' 39.89"	85° 43' 29.75"	F85
87	2543471.951	369335.209	22° 59' 39.98"	85° 43' 30.42"	F86
88	2543427.898	369350.528	22° 59' 38.55"	85° 43' 30.97"	F87
89	2543427.660	369353.465	22° 59' 38.54"	85° 43' 31.08"	F88
90	2543378.380	369345.012	22° 59' 36.94"	85° 43' 30.80"	F89
91	2543352.492	369336.400	22° 59' 36.09"	85° 43' 30.50"	F90
92	2543333.695	369322.578	22° 59' 35.48"	85° 43' 30.02"	F91
93	2543317.805	369310.047	22° 59' 34.96"	85° 43' 29.59"	F92
94	2543317.487	369273.455	22° 59' 34.94"	85° 43' 28.30"	F93
95	2543330.759	369256.485	22° 59' 35.36"	85° 43' 27.70"	F94
96	2543331.394	369244.420	22° 59' 35.38"	85° 43' 27.28"	F95
97	2543313.739	369250.743	22° 59' 34.81"	85° 43' 27.51"	F96
98	2543299.356	369282.807	22° 59' 34.35"	85° 43' 28.64"	F97
99	2543298.341	369319.244	22° 59' 34.33"	85° 43' 29.92"	F98
100	2543340.410	369354.487	22° 59' 35.70"	85° 43' 31.14"	F99
101	2543393.591	369376.791	22° 59' 37.44"	85° 43' 31.91"	F100
102	2543443.033	369369.345	22° 59' 39.04"	85° 43' 31.63"	F101
103	2543482.762	369364.104	22° 59' 40.34"	85° 43' 31.43"	F102
104	2543488.357	369384.499	22° 59' 40.52"	85° 43' 32.15"	F103
105	2543441.295	369401.000	22° 59' 39.00"	85° 43' 32.74"	F104
106	2543393.412	369415.836	22° 59' 37.44"	85° 43' 33.28"	F105
107	2543345.940	369431.532	22° 59' 35.91"	85° 43' 33.84"	F106

108	2543297.507	369443.953	22° 59' 34.33"	85° 43' 34.30"	F107
109	2543248.228	369452.411	22° 59' 32.73"	85° 43' 34.61"	F108
110	2543198.794	369459.913	22° 59' 31.13"	85° 43' 34.89"	F109
111	2543163.032	369465.374	22° 59' 29.97"	85° 43' 35.09"	F110
112	2543157.212	369403.858	22° 59' 29.76"	85° 43' 32.93"	F111
113	2543166.274	369406.041	22° 59' 30.06"	85° 43' 33.00"	F112
114	2543161.537	369382.477	22° 59' 29.90"	85° 43' 32.18"	F113
115	2543162.569	369363.178	22° 59' 29.92"	85° 43' 31.50"	F114
116	2543111.703	369349.486	22° 59' 28.27"	85° 43' 31.03"	F115
117	2543119.357	369300.075	22° 59' 28.50"	85° 43' 29.30"	F116
118	2543217.697	369341.744	22° 59' 31.71"	85° 43' 30.73"	F117
119	2543227.845	369292.784	22° 59' 32.03"	85° 43' 29.01"	F118
120	2543233.148	369259.405	22° 59' 32.19"	85° 43' 27.83"	F119
121	2543276.037	369268.639	22° 59' 33.59"	85° 43' 28.15"	F120
122	2543279.292	369318.778	22° 59' 33.71"	85° 43' 29.91"	F121
123	2543268.814	369372.012	22° 59' 33.38"	85° 43' 31.78"	F122
124	2543346.179	369320.279	22° 59' 35.88"	85° 43' 29.94"	F123
125	2543360.201	369281.782	22° 59' 36.33"	85° 43' 28.58"	F124
126	2543381.434	369282.113	22° 59' 37.02"	85° 43' 28.59"	F125
127	2543418.211	369296.136	22° 59' 38.22"	85° 43' 29.07"	F126
128	2543414.573	369342.967	22° 59' 38.11"	85° 43' 30.71"	F127
129	2543391.092	369344.423	22° 59' 37.35"	85° 43' 30.77"	F128
130	2543360.731	369325.240	22° 59' 36.36"	85° 43' 30.11"	F129
131	2543482.832	369270.571	22° 59' 40.31"	85° 43' 28.15"	F130
132	2543456.672	369242.428	22° 59' 39.45"	85° 43' 27.17"	F131
133	2543480.960	369220.997	22° 59' 40.24"	85° 43' 26.41"	F132
134	2543470.770	369203.552	22° 59' 39.90"	85° 43' 25.80"	F133
135	2543458.021	369192.819	22° 59' 39.48"	85° 43' 25.43"	F134
136	2543436.272	369183.135	22° 59' 38.77"	85° 43' 25.09"	F135
137	2543413.412	369178.611	22° 59' 38.03"	85° 43' 24.94"	F136
138	2543420.928	369167.702	22° 59' 38.27"	85° 43' 24.56"	F137
139	2543433.611	369132.872	22° 59' 38.67"	85° 43' 23.33"	F138
140	2543443.450	369108.175	22° 59' 38.98"	85° 43' 22.46"	F139
141	2543435.897	369150.154	22° 59' 38.75"	85° 43' 23.94"	F140
142	2543466.809	369189.453	22° 59' 39.77"	85° 43' 25.31"	F141
143	2543510.243	369244.672	22° 59' 41.19"	85° 43' 27.23"	F142

Annexure – XIV

**Fore Bearing, Back Bearing and Pillar to Pillar distance from
pillar F1 to pillar F142 (Traverse Station data)**

FORE BEARING, BACK BEARING, PILLAR TO PILLAR DISTANCE
OF FOREST AREA BOUNDARY PILLARS FROM F1 TO F142
(Traverse Station Data)

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F1	F2	17.91	N 15°40'19" W	S 15°40'19" E
2	F2	F3	18.16	S 30°42'14" E	N 30°42'14" W
3	F3	F1	4.72	S 69°45'43" W	N 69°45'43" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F4	F5	50	N 60°46'37" W	S 60°46'37" E
2	F5	F6	55.68	N 60°46'02" W	S 60°46'02" E
3	F6	F7	42.08	S 69°45'51" W	N 69°45'51" E
4	F7	F8	9.5	N 18°55'44" E	S 18°55'44" W
5	F8	F9	30.13	N 66°20'19" E	S 66°20'19" W
6	F9	F10	15.92	N 03°37'50" W	S 03°37'50" E
7	F10	F11	13.1	N 00°34'39" E	S 00°34'39" W
8	F11	F12	34.43	S 61°24'55" E	N 61°24'55" W
9	F12	F13	18.38	S 85°27'35" E	N 85°27'35" W
10	F13	F14	13.64	S 63°48'32" E	N 63°48'32" W
11	F14	F15	11.78	S 19°20'50" E	N 19°20'50" W
12	F15	F16	35.2	N 71°56'23" E	S 71°56'23" W
13	F16	F17	51.26	N 28°11'06" E	S 28°11'06" W
14	F17	F18	21.55	S 81°10'28" E	N 81°10'28" W
15	F18	F19	32.03	N 24°23'48" E	S 24°23'48" W
16	F19	F20	16.24	S 08°11'45" W	N 08°11'45" E
17	F20	F21	33.84	S 15°10'12" W	N 15°10'12" E
18	F21	F22	52.96	S 14°28'29" W	N 14°28'29" E
19	F22	F23	18.57	S 45°08'46" W	N 45°08'46" E
20	F23	F4	27.21	S 39°49'03" W	N 39°49'03" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F24	F25	31.98	N 74°53'37" W	S 74°53'37" E
2	F25	F26	7.82	S 34°39'21" W	N 34°39'21" E
3	F26	F27	15.17	N 88°30'00" W	S 88°30'00" E
4	F27	F28	36.05	N 36°18'55" E	S 36°18'55" W
5	F28	F29	10.79	N 28°04'21" E	S 28°04'21" W
6	F29	F30	5.41	N 49°45'22" W	S 49°45'22" E
7	F30	F31	21.12	S 63°55'00" W	N 63°55'00" E
8	F31	F32	15.25	N 83°43'30" W	S 83°43'30" E
9	F32	F33	16.62	N 18°05'18" E	S 18°05'18" W
10	F33	F34	8.89	S 71°14'42" E	N 71°14'42" W
11	F34	F35	60.92	N 23°05'27" E	S 23°05'27" W
12	F35	F36	16.58	S 68°57'46" E	N 68°57'46" W
13	F36	F37	33.47	S 74°36'20" E	N 74°36'20" W
14	F37	F38	33.8	S 84°26'58" E	N 84°26'58" W
15	F38	F39	30.46	N 89°23'05" E	S 89°23'05" W
16	F39	F40	14.45	S 06°18'12" W	N 06°18'12" E
17	F40	F41	9.89	S 41°44'49" W	N 41°44'49" E
18	F41	F42	42.72	N 88°30'35" W	S 88°30'35" E
19	F42	F43	32.45	S 26°45'11" W	N 26°45'11" E
20	F43	F24	43.96	S 29°17'47" W	N 29°17'47" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F44	F45	50.96	S 76°37'23" W	N 76°37'23" E
2	F45	F46	41.1	S 76°37'20" W	N 76°37'20" E
3	F46	F47	50.03	N 62°49'32" W	S 62°49'32" E
4	F47	F48	28.87	N 62°49'35" W	S 62°49'35" E
5	F48	F49	40.39	N 41°47'17" W	S 41°47'17" E
6	F49	F50	51.46	N 50°39'15" E	S 50°39'15" W
7	F50	F51	55.11	N 50°39'15" E	S 50°39'15" W
8	F51	F52	49.88	N 63°11'03" E	S 63°11'03" W
9	F52	F53	71.88	N 62°03'37" E	S 62°03'37" W
10	F53	F54	49.9	N 37°56'41" E	S 37°56'41" W
11	F54	F55	49.87	N 37°56'43" E	S 37°56'43" W
12	F55	F56	50.78	N 42°53'26" E	S 42°53'26" W
13	F56	F57	48.3	N 44°12'44" E	S 44°12'44" W
14	F57	F58	51.38	S 42°22'55" E	N 42°22'55" W
15	F58	F59	42.82	S 42°22'56" E	N 42°22'56" W
16	F59	F60	35.87	S 09°13'11" E	N 09°13'11" W
17	F60	F61	62.08	S 53°35'05" W	N 53°35'05" E
18	F61	F62	50.14	S 66°45'32" W	N 66°45'32" E
19	F62	F63	47.02	S 66°45'31" W	N 66°45'31" E
20	F63	F64	49.17	S 36°49'46" W	N 36°49'46" E
21	F64	F65	51.02	S 36°49'46" W	N 36°49'46" E
22	F65	F44	58.81	S 03°13'39" W	N 03°13'39" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F66	F67	4.37	N 39°28'29" W	S 39°28'29" E
2	F67	F68	12.38	N 12°01'38" E	S 12°01'38" W
3	F68	F69	50	N 58°59'40" E	S 58°59'40" W
4	F69	F70	55.43	N 66°05'33" E	S 66°05'33" W
5	F70	F71	12.52	S 03°19'42" E	N 03°19'42" W
6	F71	F72	50	S 68°10'36" W	N 68°10'36" E
7	F72	F73	57.73	S 55°36'35" W	N 55°36'35" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F73	F74	32.97	N 35°10'45" E	S 35°10'45" W
2	F74	F75	18.67	N 05°03'52" E	S 05°03'52" W
3	F75	F76	65.43	N 10°42'56" W	S 10°42'56" E
4	F76	F77	33.13	N 36°13'44" W	S 36°13'44" E
5	F77	F78	50.19	N 10°56'23" W	S 10°56'23" E
6	F78	F79	50	N 18°38'45" W	S 18°38'45" E
7	F79	F80	50.13	N 00°41'54" W	S 00°41'54" E
8	F80	F81	25.61	N 38°17'59" E	S 38°17'59" W
9	F81	F82	33.9	N 68°28'53" E	S 68°28'53" W
10	F82	F83	30.59	N 73°24'55" E	S 73°24'55" W
11	F83	F84	32.58	S 84°41'17" E	N 84°41'17" W
12	F84	F85	19.87	N 23°58'47" E	S 23°58'47" W
13	F85	F86	19.36	N 82°54'55" E	S 82°54'55" W
14	F86	F87	46.64	S 19°10'29" E	N 19°10'29" W
15	F87	F88	2.95	S 85°22'02" E	N 85°22'02" W
16	F88	F89	50	S 09°44'00" W	N 09°44'00" E
17	F89	F90	27.28	S 18°24'01" W	N 18°24'01" E
18	F90	F91	23.33	S 36°19'41" W	N 36°19'41" E
19	F91	F92	20.24	S 38°15'35" W	N 38°15'35" E
20	F92	F93	36.59	S 89°30'08" W	N 89°30'08" E
21	F93	F94	21.54	N 51°58'18" W	S 51°58'18" E
22	F94	F95	12.08	N 86°59'14" W	S 86°59'14" E

23	F95	F96	18.75	S 19°42'17" E	N 19°42'17" W
24	F96	F97	35.14	S 65°50'25" E	N 65°50'25" W
25	F97	F98	36.45	S 88°24'16" E	N 88°24'16" W
26	F98	F99	54.88	N 39°57'16" E	S 39°57'16" W
27	F99	F100	57.67	N 22°45'11" E	S 22°45'11" W
28	F100	F101	50	N 08°33'52" W	S 08°33'52" E
29	F101	F102	40.07	N 07°30'54" W	S 07°30'54" E
30	F102	F103	21.15	N 74°39'34" E	S 74°39'34" W
31	F103	F104	49.87	S 19°19'19" E	N 19°19'19" W
32	F104	F105	50.13	S 17°12'54" E	N 17°12'54" W
33	F105	F106	50	S 18°17'45" E	N 18°17'45" W
34	F106	F107	50	S 14°23'02" E	N 14°23'02" W
35	F107	F108	50	S 09°44'21" E	N 09°44'21" W
36	F108	F109	50	S 08°37'45" E	N 08°37'45" W
37	F109	F110	36.18	S 08°40'56" E	N 08°40'56" W
38	F110	F111	61.79	S 84°35'43" W	N 84°35'43" E
39	F111	F112	9.32	N 13°32'39" E	S 13°32'39" W
40	F112	F113	24.04	S 78°38'01" W	N 78°38'01" E
41	F113	F114	19.33	N 86°56'21" W	S 86°56'21" E
42	F114	F115	52.68	S 15°03'56" W	N 15°03'56" E
43	F115	F116	50	N 81°11'41" W	S 81°11'41" E
44	F116	F73	64.94	N 80°43'21" W	S 80°43'21" E

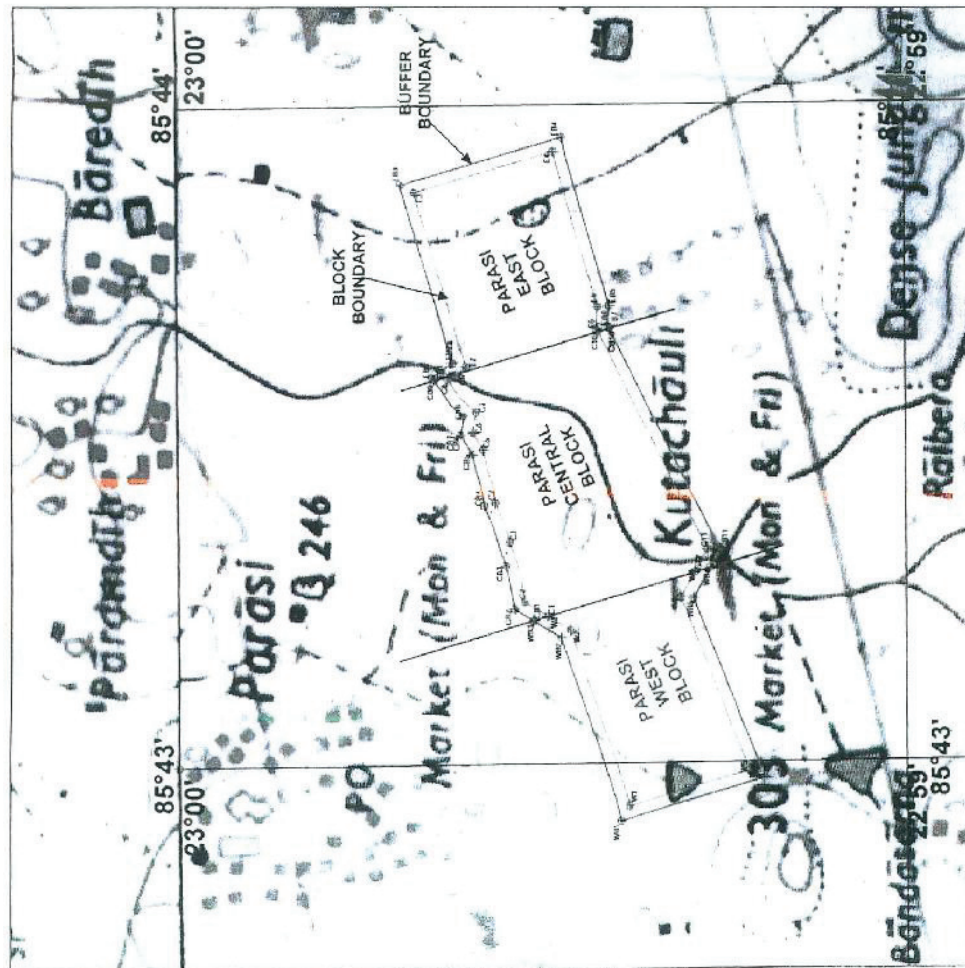
Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F117	F118	50	N 78°17'24" W	S 78°17'24" E
2	F118	F119	33.8	N 80°58'22" W	S 80°58'22" E
3	F119	F120	43.87	N 12°09'01" E	S 12°09'01" W
4	F120	F121	50.24	N 86°17'08" E	S 86°17'08" W
5	F121	F122	54.26	S 78°51'54" E	N 78°51'54" W
6	F122	F117	59.41	S 30°37'52" W	N 30°37'52" E

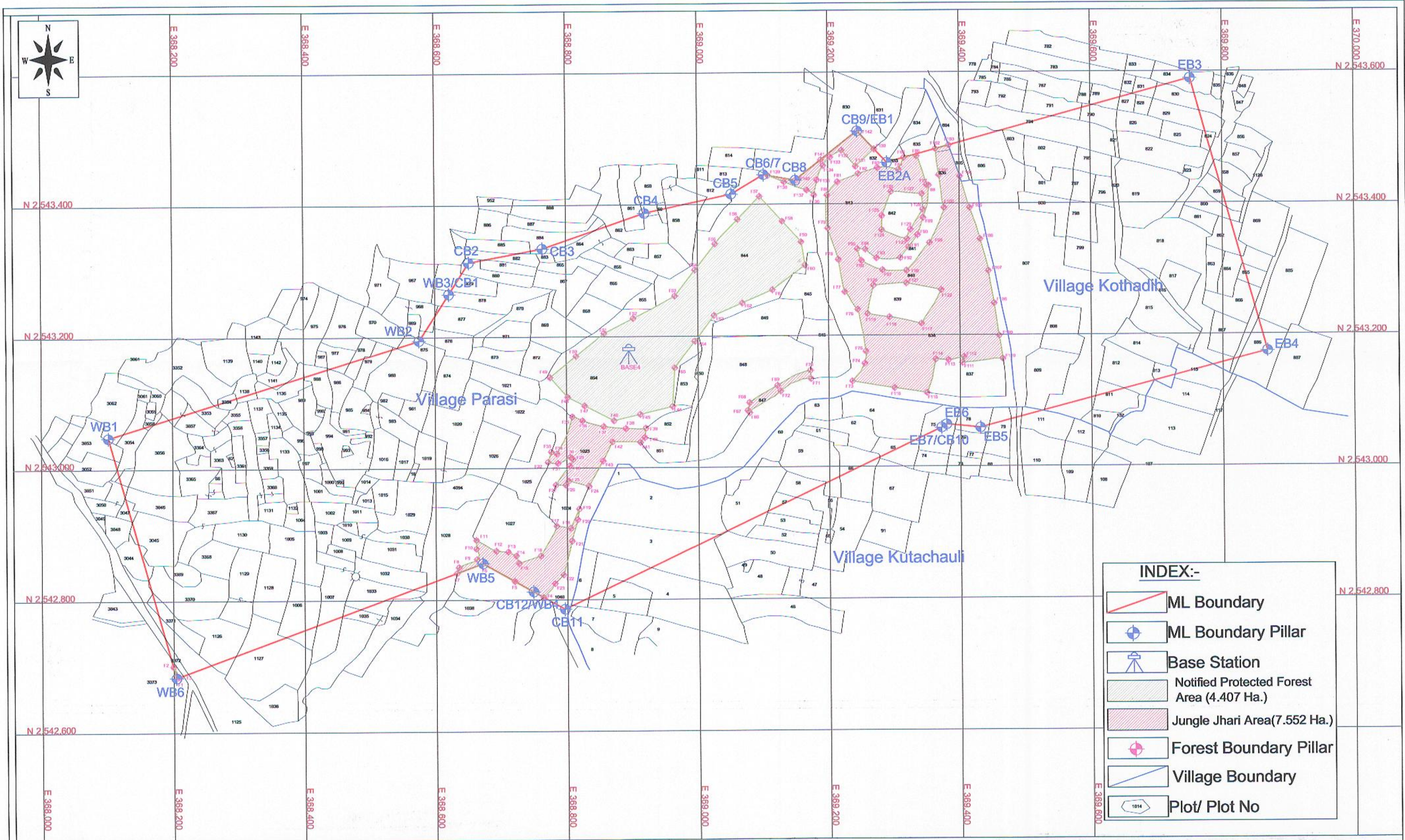
Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F123	F124	40.97	N 69°59'12" W	S 69°59'12" E
2	F124	F125	21.24	N 00°53'35" E	S 00°53'35" W
3	F125	F126	39.36	N 20°52'18" E	S 20°52'18" W
4	F126	F127	46.97	S 85°33'29" E	N 85°33'29" W
5	F127	F128	23.53	S 03°32'54" E	N 03°32'54" W
6	F128	F129	35.91	S 32°17'09" W	N 32°17'09" E
7	F129	F123	15.37	S 18°49'30" W	N 18°49'30" E

Sl. No.	Pillar From	Pillar To	Distance	Fore Bearing	Back Bearing
1	F130	F131	38.42	S 47°05'29" W	N 47°05'29" E
2	F131	F132	32.39	N 41°25'27" W	S 41°25'27" E
3	F132	F133	20.2	S 59°42'36" W	N 59°42'36" E
4	F133	F134	16.67	S 40°05'35" W	N 40°05'35" E
5	F134	F135	23.81	S 24°00'06" W	N 24°00'06" E
6	F135	F136	23.3	S 11°11'39" W	N 11°11'39" E
7	F136	F137	13.25	N 55°26'03" W	S 55°26'03" E
8	F137	F138	37.07	N 69°59'29" W	S 69°59'29" E
9	F138	F139	26.58	N 68°16'42" W	S 68°16'42" E
10	F139	F140	42.65	S 79°48'01" E	N 79°48'01" W
11	F140	F141	50	N 51°48'43" E	S 51°48'43" W
12	F141	F142	70.25	N 51°48'44" E	S 51°48'44" W
13	F142	F130	37.71	S 43°22'31" E	N 43°22'31" W

Map for Mining block of Parasi Gold & Associated Mineral block
(Provided by Mineral Exploration Corporation Limited- Map)

LOCATION MAP OF PARASI (WEST, CENTRAL & EAST) BLOCK





INDEX:-

- ML Boundary
- ML Boundary Pillar
- Base Station
- Notified Protected Forest Area (4.407 Ha.)
- Jungle Jhari Area (7.552 Ha.)
- Forest Boundary Pillar
- Village Boundary
- Plot/ Plot No

FOREST AREA BOUNDARY PILLAR

Sl. No.	Northing	Easting	Latitude	Longitude	Code	Sl. No.	Northing	Easting	Latitude	Longitude	Code	Sl. No.	Northing	Easting	Latitude	Longitude	Code
1	2543156.739	368896.238	22° 59' 29.60"	85° 43' 15.10"	Base4	39	2543059.686	368890.181	22° 59' 26.45"	85° 43' 14.92"	F38	77	2543239.853	368924.456	22° 59' 32.40"	85° 43' 27.31"	F76
2	2542683.774	368204.275	22° 59' 14.01"	85° 42' 50.95"	F1	40	2543060.013	368920.635	22° 59' 26.46"	85° 43' 15.99"	F39	78	2543266.376	368924.877	22° 59' 32.26"	85° 43' 26.61"	F77
3	2542700.510	368199.437	22° 59' 14.57"	85° 42' 50.77"	F2	41	2543045.646	368919.048	22° 59' 26.00"	85° 43' 15.94"	F40	79	2543315.654	368925.352	22° 59' 34.85"	85° 43' 26.28"	F78
4	2542684.908	368208.707	22° 59' 14.07"	85° 42' 51.11"	F3	42	2543038.264	368912.460	22° 59' 25.76"	85° 43' 15.71"	F41	80	2543363.030	368919.386	22° 59' 36.40"	85° 43' 25.69"	F79
5	2542803.840	368763.535	22° 59' 18.09"	85° 43' 10.55"	F4	43	2543039.375	368889.756	22° 59' 25.78"	85° 43' 14.21"	F42	81	2543413.160	368918.755	22° 59' 38.03"	85° 43' 25.65"	F80
6	2542828.251	368710.898	22° 59' 18.87"	85° 43' 9.01"	F5	44	2543010.403	368855.151	22° 59' 24.83"	85° 43' 13.71"	F43	82	2543433.259	368914.626	22° 59' 38.60"	85° 43' 26.20"	F81
7	2542855.443	368671.309	22° 59' 19.74"	85° 43' 7.30"	F6	45	2543092.887	368861.725	22° 59' 27.55"	85° 43' 17.42"	F44	83	2543445.894	368926.166	22° 59' 39.10"	85° 43' 27.30"	F82
8	2542840.883	368631.826	22° 59' 19.25"	85° 43' 5.82"	F7	46	2543081.098	368812.151	22° 59' 27.15"	85° 43' 15.69"	F45	84	2543454.425	368925.462	22° 59' 39.39"	85° 43' 28.33"	F83
9	2542840.875	368634.906	22° 59' 19.55"	85° 43' 6.02"	F8	47	2543071.588	368872.103	22° 59' 26.83"	85° 43' 14.28"	F46	85	2543451.409	368930.500	22° 59' 39.30"	85° 43' 29.47"	F84
10	2542861.968	368602.507	22° 59' 19.05"	85° 43' 6.99"	F9	48	2543094.437	368837.855	22° 59' 27.98"	85° 43' 11.81"	F47	86	2543469.563	368931.595	22° 59' 39.89"	85° 43' 29.75"	F85
11	2542877.855	368661.499	22° 59' 20.47"	85° 43' 6.95"	F10	49	2543107.620	368891.975	22° 59' 27.98"	85° 43' 11.81"	F48	87	2543471.951	368935.209	22° 59' 39.90"	85° 43' 30.42"	F86
12	2542890.952	368661.631	22° 59' 20.89"	85° 43' 6.95"	F11	50	2543137.734	368775.061	22° 59' 28.95"	85° 43' 10.85"	F49	88	2543472.898	368935.528	22° 59' 39.55"	85° 43' 30.97"	F87
13	2542874.481	368691.860	22° 59' 20.37"	85° 43' 6.01"	F12	51	2543170.358	368814.855	22° 59' 30.02"	85° 43' 12.24"	F50	89	2543472.898	368935.528	22° 59' 39.55"	85° 43' 30.97"	F88
14	2542873.020	368710.183	22° 59' 20.33"	85° 43' 6.06"	F13	52	2543205.296	368857.471	22° 59' 31.17"	85° 43' 13.73"	F51	90	2543478.380	368945.012	22° 59' 39.64"	85° 43' 30.80"	F89
15	2542887.007	368722.420	22° 59' 20.14"	85° 43' 9.09"	F14	53	2543227.799	368891.989	22° 59' 31.91"	85° 43' 15.28"	F52	91	2543482.492	368936.400	22° 59' 39.09"	85° 43' 30.50"	F90
16	2542855.894	368726.322	22° 59' 19.77"	85° 43' 9.23"	F15	54	2543261.476	368895.400	22° 59' 33.03"	85° 43' 17.50"	F53	92	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F91
17	2542866.808	368759.702	22° 59' 20.14"	85° 43' 10.47"	F16	55	2543300.826	368896.170	22° 59' 34.32"	85° 43' 16.57"	F54	93	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F92
18	2542911.969	368764.001	22° 59' 21.61"	85° 43' 11.24"	F17	56	2543340.153	368906.835	22° 59' 35.60"	85° 43' 16.83"	F55	94	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F93
19	2542908.679	368805.300	22° 59' 21.51"	85° 43' 11.09"	F18	57	2543377.355	368901.394	22° 59' 36.62"	85° 43' 17.52"	F56	95	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F94
20	2542937.849	368818.530	22° 59' 22.45"	85° 43' 12.44"	F19	58	2543411.975	368905.075	22° 59' 37.96"	85° 43' 22.01"	F57	96	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F95
21	2542921.776	368816.215	22° 59' 21.94"	85° 43' 12.37"	F20	59	2543374.023	368912.708	22° 59' 36.73"	85° 43' 23.24"	F58	97	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F96
22	2542889.113	368807.359	22° 59' 20.88"	85° 43' 12.09"	F21	60	2543342.390	368915.575	22° 59' 35.71"	85° 43' 24.26"	F59	98	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F97
23	2542837.836	368794.122	22° 59' 19.21"	85° 43' 11.62"	F22	61	2543305.094	368914.322	22° 59' 34.56"	85° 43' 24.47"	F60	99	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F98
24	2542824.740	368780.959	22° 59' 18.78"	85° 43' 11.16"	F23	62	2543270.133	368911.367	22° 59' 33.35"	85° 43' 22.73"	F61	100	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F99
25	2542972.095	368833.640	22° 59' 23.58"	85° 43' 12.98"	F24	63	2543205.349	368908.299	22° 59' 32.70"	85° 43' 21.12"	F62	101	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F100
26	2542900.400	368802.783	22° 59' 23.84"	85° 43' 11.88"	F25	64	2543231.794	368905.093	22° 59' 32.08"	85° 43' 19.61"	F63	102	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F101
27	2542973.970	368798.316	22° 59' 23.63"	85° 43' 11.72"	F26	65	2543192.438	368905.619	22° 59' 30.70"	85° 43' 18.58"	F64	103	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F102
28	2542974.367	368793.157	22° 59' 23.64"	85° 43' 11.19"	F27	66	2543151.600	368895.039	22° 59' 29.46"	85° 43' 17.52"	F65	104	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F103
29	2543003.416	368804.509	22° 59' 24.39"	85° 43' 11.93"	F28	67	2543002.763	368907.715	22° 59' 27.25"	85° 43' 21.53"	F66	105	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F104
30	2543012.943	368809.589	22° 59' 24.90"	85° 43' 12.11"	F29	68	2543066.136	368905.937	22° 59' 27.76"	85° 43' 21.44"	F67	106	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F105
31	2543016.436	368805.462	22° 59' 25.02"	85° 43' 11.96"	F30	69	2543069.241	368907.516	22° 59' 27.75"	85° 43' 21.52"	F68	107	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F106
32	2543007.149	368786.491	22° 59' 24.71"	85° 43' 11.30"	F31	70	2543123.997	368912.372	22° 59' 28.60"	85° 43' 23.02"	F69	108	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F107
33	2543008.816	368771.331	22° 59' 24.78"	85° 43' 10.76"	F32	71	2543146.461	368912.047	22° 59' 28.35"	85° 43' 24.70"	F70	109	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F108
34	2543024.611	368776.404	22° 59' 25.27"	85° 43' 10.94"	F33	72	2543135.373	368912.774	22° 59' 28.94"	85° 43' 24.82"	F71	110	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F109
35	2543021.754	368784.904	22° 59' 25.18"	85° 43' 11.24"	F34	73	2543115.373	368912.368	22° 59' 28.32"	85° 43' 23.20"	F72	111	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F110
36	2543077.793	368808.796	22° 59' 27.01"	85° 43' 12.07"	F35	74	2543129.827	368923.980	22° 59' 28.82"	85° 43' 27.04"	F73	112	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F111
37	2543071.840	368824.274	22° 59' 26.82"	85° 43' 12.07"	F36	75	2543156.772	368924.973	22° 59' 29.71"	85° 43' 27.70"	F74	113	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F112
38	2543062.955	368856.543	22° 59' 26.54"	85° 43' 13.74"	F37	76	2543175.368	368925.621	22° 59' 30.31"	85° 43' 27.75"	F75	114	2543483.095	368932.578	22° 59' 39.48"	85° 43' 30.02"	F113

ML BOUNDARY PILLAR

SINO	NORTHING	EASTING	LATITUDE	LONGITUDE	CODE
1	2543265.247	368821.363	22° 59' 33.053" N	85° 43' 5.418" E	WB3/CB1
2	2543313.002	368851.708	22° 59' 34.814" N	85° 43' 6.469" E	CB2
3	2543333.809	368764.076	22° 59' 35.322" N	85° 43' 10.408" E	CB3
4	2543387.16	368819.674	22° 59' 36.101" N	85° 43' 15.857" E	CB4
5	2543415.584	368905.767	22° 59' 38.063" N	85° 43' 20.487" E	CB5
6	2543444.683	368910.482	22° 59' 39.022" N	85° 43' 22.224" E	CB6/7
7	2543435.896	368915.151	22° 59' 38.751" N	85° 43' 23.930" E	CB8
8	2543510.245	368924.667	22° 59' 41.195" N	85° 43' 27.232" E	CB9/EB1
9	2542785.71	368796.028	22° 59' 17.511" N	85° 43' 11.699" E	CB11
10	2542812.301	368746.573	22° 59' 18.362" N	85° 43' 10.017" E	CB12/WB4
11	2543462.398	368929.878	22° 59' 39.652" N	85° 43' 28.834" E	EB2A
12	2543589.103	368751.707	22° 59' 43.902" N	85° 43' 45.014" E	EB3
13	2543174.467	368987.935	22° 59' 30.454" N	85° 43' 49.222" E	EB4
14	2543047.409	368102.123	22° 59' 25.822" N	85° 42' 47.251" E	WB1
15	2543194.571	368575.76	22° 59' 30.742" N	85° 43' 3.830" E	WB2
16	2542855.443	368871.309	22° 59' 19.743" N	85° 43' 7.289" E	WB5
17	2542863.774	368204.275	22° 59' 14.013" N	85° 42' 50.950" E	WB6
18	2543063.567	368937.009	22° 59' 26.710" N	85° 43' 32.086" E	EB6
19	2543058.771	368931.623	22° 59' 26.552" N	85° 43' 31.816" E	EB7/CB10
20	2543058.47	368430.489	22° 59' 26.559" N	85° 43' 33.889" E	EB5

PLATE-VI

CLIENT: **M/s RUNGTA MINES LIMITED**
CHAIBAS, JHARKHAND

PROJECT: PARASI GOLD DEPOSIT OVER AN AREA OF 75.73 HECTARE IN VILLAGE - PARASI, KOTHADIH & KUTACHAULI OF THANA- TAMAR, DIST-RANCHI, JHARKHAND STATE.

SUBJECT: DGPS FOREST AREA SURFACE LAYOUT PLAN SHOWING FOREST AREA OF 11.959 HA. LIES WITHIN PROPOSED ML AREA OF PARASI GOLD DEPOSIT

SCALE - 1 : 3960

CONSULTANT - **GEMS PROJECTS PVT LTD.**
RGP for Indian Bureau of Mines, Govt of India, Registered DGPS Survey Company from Govt of Jharkhand & Govt of Odisha.
1236/2, LAJPATNAGAR, PUNDGA, ARGODA, RANCHI, JHARKHAND