MINUTES OF THE 14th MEETING OF TECHNICAL CUM COST COMMITTEE (TCC) OF NATIONAL MINERAL EXPLORATION TRUST (NMET)

Fermor Hall, Geological Survey of India, Nagpur; 21st & 22nd May, 2018

The 14th meeting of Technical Cum-Cost Committee (TCC) of National Mineral Exploration Trust (NMET) was held at GSI, Nagpur on 21-05-2018 & 22-05-2018 under the chairmanship of Shri. D. Mohan Raj, Addl. Director General & Head, Mission-II, GSI, Nagpur. The list of participants is at **Annexure-1**.

Shri D. Mohan Raj, Additional Director General, GSI, Nagpur & Chairman, TCC welcomed all the members of the committee. He appraised the committee regarding the agenda items of the meeting and made the following observations:

- SCHEDULE OF CHARGE (SOC)
    - The cost estimates of all proposals are based on SOC of MECL which was made for promotional Projects approved through SCPP, same may not be applied to all proposals of NMET.
    - It was advised by Chairman, TCC that there should be separate and exclusive SOC for the projects funded by NMET, for which steps need to be taken.
    - Director NMET stated that proposals can be examined case to case basis and for NMET it has been decided by the Executive Committee that SOC of MECL/ GSI will be taken as standard.
    - Committee decided that this issue will be discussed separately.
    - Activities which are being outsourced, cost will be calculated as per actual cost of outsourced work plus handling charges of the agencies or the rate of MECL whichever is less. A standard handing charge will be worked out by MECL for approval of EC.
    - Considering that the cost aspects of a number of proposals are examined by the finance members of the TCC within the available time, two finance members are required in the TCC, One may be sourced from NALCO and other from NMDC.
    - It was also decided that proper justification and financial evaluation becomes very difficult, if we take up more than 20 proposals in each NMET, TCC Meeting. Now a days every alternate month TCC of NMET takes up the proposals for evaluation. Hence, the committee unanimously decided that in each meeting only 20 proposals will be taken up for discussions and financial

/ cost evaluation on first come first serve basis, provided if the proposals are submitted to all the members 15 days prior to the me scheduled meeting of TCC, NMET.

- Shri K.C. Sahoo, DDG, GSI, Jaipur has been nominated as member in place of Shri Manoranjan Mohanty, DDG, who superannuated on 28/02/2018.

- About Time line of submitting Proposals:
  - All proposals should be submitted in both soft and hard copies to the members of TCC at 15 days before schedule date of TCC meeting.

(Action: State DGMs/NEAs)

A. <u>EVALUATION OF PROPOSALS</u>:

The committee recommendations in respect of various proposals are as under:

1. PROPOSAL FOR 12 LIMESTONE BLOCKS IN SURYAPET DISTRICT AND 3 LIMESTONE BLOCKS IN VIKARABAD DISTRICT BY DGM TELANAGANA:

DGM Telangana assured that there is sufficient demand for Limestone and all the blocks will go for auction, after completion of the projects.

Committee examined the following proposals:

I. Proposal for Limestone Exploration (G3/G-2) in Mellacheruvu Block, District: Suryapet.

II. Proposal for Limestone Exploration (G3/G-2) in Mallareddy Gudem Block, District: Suryapet.

III. Proposal for Limestone Exploration (G3/G-2) in Yepal Madhavaram Block, District: Suryapet.

IV. Proposal for Limestone Exploration (G3/G-2) in Mattampally Block- 1, District: Suryapet.

V. Proposal for Limestone Exploration (G3/G-2) in Mattampally Block- 2, District: Suryapet.

VI. Proposal for Limestone Exploration (G3/G-2) in Raghunathapalem Block- 1, District: Suryapet.

VII. Proposal for Limestone Exploration (G3/G-2) in Raghunathapalem Block- 2, District: Suryapet.

VIII. Proposal for Limestone Exploration (G3/G-2) in Wazigudem Block, District: Suryapet.

IX. Proposal for Limestone Exploration (G3/G-2) in Veerappagudem Block, District: Suryapet.

X. Proposal for Limestone Exploration (G3/G-2) in Ramapuram Block, District: Suryapet.

XI. Proposal for Limestone Exploration (G3/G-2) in Dondapadu Block, District: Suryapet.

XII. Proposal for Limestone Exploration (G3/G-2) in Kothagudem Block, District: Suryapet.

XIII. Proposal for Limestone Exploration (G3/G-2) in Jiwangi- 1 Block, District: Vikarabad.

XIV. Proposal for Limestone Exploration (G3/G-2) in Jiwangi- 2 Block, District: Vikarabad.

XV. Proposal for Limestone Exploration (G3/G-2) in Malkapur Block, District: Vikarabad.

Committee has following recommendations for all the 15 blocks:

- Exploration will be done step wise i. e, first G-4 stage exploration will be taken up. The proposals will be seamlessly upgraded to G-3 & G2 based on review.
- For G-4 level, these 15 blocks will clubbed to make 8 clusters and each cluster will be mapped on 1:12,500 scale.
- A maximum of 5 boreholes (Except in Cluster-1, 6 Bhs will be drilled) will be planned in each cluster and based on the data, G-4 stage report to be prepared.
- These boreholes will be spaced in such a way that they can be used for G-3 and G-2 level resource estimation.
- Average depth of boreholes will be 50 m depth or maximum 3 m drilling in shale after limestone whichever is lower.
- Based on the analytical results, if the acceptable level of cut-off is CaO> 42%, SiO_2 - 16% Max and MgO - 4% max, then G-3 stage can be taken up as per modified BH location decided by the committee.
- In G-3 stage, all 15 blocks will be explored separately and then detailed geological mapping at 1:4000 scale with DGPS survey will be carried out for fixing block boundary.
- Drilling will be carried out at 800m x 800m grid with 50 m depth or maximum 3 m drilling in shale after limestone whichever is lower.
- Based on the G-3 stage exploration, the resource estimation will be done and report will be submitted.
- G-2 stage exploration will be planned if the outcome of G-3 stage exploration is positive where drilling should be carried out at 400m x 400m grid.
- Baseline environment studies will be carried out at G-2 stage for 8 clusters made at the time of G-4 stage.
- Total number of boreholes in different stage for all blocks are as follows:

Block Name	G-4 & G-3	G-2
Mellacheruvu Block	**9**	**21**
Mallareddy Gudem Block	**9**	**21**
Yepal Madhavaram Block	**10**	**25**
Mattampally Block- 1	**8**	**19**
Mattampally Block- 2	**7**	**17**
Raghunathapalem Block- 1	**8**	**19**
Raghunathapalem Block- 2	**7**	**16**
Wazigudem Block	**9**	**22**
Veerappagudem Block	**8**	**22**
Ramapuram Block	**6**	**15**
Dondapadu Block	**8**	**20**
Kothagudem Block	**6**	**18**
Jiwangi- 1 Block	**5**	**8**
Jiwangi- 2 Block	**6**	**16**
Malkapur Block	**6**	**19**
TOTAL	**112**	**278**

- Composite samples are to be drawn for 8m thickness and if the zone is less than 8m then for the total horizon.
- The committee recommend the exploration program up to G-2 stage, however at the end of G-4 & G-3stage of exploration, the committee will be appraised the results before the commencement of the next stage exploration.
- The Time schedule for G-4 stage exploration of all the 8 (eight) clusters will be 6 (six) months from the date of receipt of approval from NMET.
- The Time schedule for G-3 stage exploration of all the 15 (Fifteen) Blocks will be 6 (six) months each after completion of G-4 stage work.
- The Time schedule for G-2 stage exploration of all the 15 (Fifteen) Blocks will be 7 (Seven) months each after completion of G-3 stage work.
- Thus the total Time schedule for each clusters will be 19 months from the date of receipt of approval from NMET to completion of G-2 stage exploration.
- 3 hard copies of modified proposals as per the recommendations of TCC are to be submitted by 28th May 2018 (One copy to NMET Secretariat, one copy to Chairman TCC and one copy to Member Secretary).
- Cost for G-4/ G-3/ G-2 exploration in different clusters & blocks are as follows:

Cluster Name	*Block Name*	*G-4 Cost in Lakhs*	*G-3 Cost in Lakhs*	*G-2 Cost in Lakhs*	*Total Cost In Lakhs*
Cluster-1	Mellacheruvu Block	63.32	73.30	125.58	655.82
	Mallareddy Gudem Block		80.06	107.15	
	Yepal Madhavaram Block		86.27	120.14	
Cluster-2	Mattampally Block- 1	47.90	72.61	120.04	394.23
	Mattampally Block- 2		61.21	92.47	
Cluster-3	Raghunathapalem Block- 1	47.55	72.26	120.03	390.17
	Raghunathapalem Block- 2		59.62	90.71	
Cluster-4	Wazigudem Block	43.72	77.68	129.81	430.37
	Veerappagudem Block		70.68	108.48	
Cluster-5	Ramapuram Block	33.81	51.93	109.74	195.48
Cluster-6	Dondapadu Block	47.90	70.68	125.48	396.87
	Kothagudem Block		51.93	100.88	
Cluster-7	Jiwangi- 1 Block	47.55	41.57	81.10	308.05
	Jiwangi- 2 Block		47.96	89.87	
Cluster-8	Malkapur Block	34.31	47.26	124.31	205.88
	Total	**366.06**	**965.02**	**1,645.79**	**2,976.87**

(Action: DGM Telangana)

2. PROPOSALS FROM DMG JHARKHAND

As DMG Jharkhand officials were not present in the meeting, proposals of DMG Jharkhand could not be discussed.

(Action: DGM Jharkhand)

3. REVIEW OF 2 BLOCKS AND DISCUSSION OF ONE IRON ORE BLOCK OF KIOCL

KIOCL presented the out come of work done of Stage-1 of two blocks as well as discussion on proposal of one new block which are as follows:

a. Tirumankaradu Iron Ore Block:

KIOCL presented the results of the work carriedout in stage-1 of G-4 Proposal and shown the results. Committee agrees to continue the work for 2nd stage which includes pitting & trenching and geophysical work as per earlier approved quantity.

b. Udbur Gold Block:

KIOCL presented the results of the work carriedout in stage-1 of G-4 stage and shown the results.

- Committee recommended that as Gold values are not encouraging, there should be no further exploration for Gold but Ni & Cr anomaly zones may be targeted for further investigation. If the results are encouraging, further works will be discussed
- Pitting & trenching as well as Geophysical survey at this stage is not required for Au. However, max 50 m^3 pitting/ trenching can be done in Ultramafic zones for Ni & Cr.
- Balance samples of Stage-1 (72 Nos) can be ultilised in Stage-2 exploration.
- Nickel phase may be established
- Cost of Silver analysis as well as 08 (Eight) samples for PGE carried out in Stage-1, totalling Rupees 1,56,200 plus GST is approved.

c. Poomedu Iron Ore Block:

KIOCL will take permission of DGM Tamilnadu to carry out the exploration work. Stage-1 of G-4 work proposed is approved in principle by the committee. After reviewing the Stage-1 results, Stage-2 & Stage-3 will be decided. The committee recommend this proposal for all the three stages however the results will be appraised at the end of each stage.

The total cost of exploration of the project is Rs 52.61 Lakh and the time schedule for completion of Stage-I work will be a period of 6 months, for stage-1 work.

(Action: KOICL)

4. PROPOSALS FROM DGM CHATTISHGARH

Committee examined following Four (4) Bauxite Blocks presented by DGM Chhattisgarh:

I. Proposal for Preliminary Exploration (G-3) for Bauxite in Dumarguda, District-Surguja, Chhattisgarh.
II. Proposal for Preliminary Exploration (G-3) for Bauxite in Murtadand Area, District Surguja, Chhattisgarh
III. Proposal for Preliminary Exploration (G-3) for Bauxite in Dandkesra North Area, Mainpat, District- Surguja Chhattisgarh

IV. Proposal for Preliminary Exploration (G-3) for Bauxite in Parpatia Area. Mainpat Plateau, District, Surguja, Chhattisgarh.

Committee has following recommendations for all bauxite blocks:

- Geological mapping at 1:4,000 scale in all blocks
- Boreholes to be proposed at 200m x 200m interval due to irregular habit of Bauxite.
- Drilling to be taken up by wet/dry drilling method to ensure optimum core recovery (atleast 80%+)
- Average depth of boreholes should be 10 or upto 1 m in lithomargic clay.
- All samples to be analysed also for Gallium, Vanadium, Titanium.
- In the laterite and lithomargic clay zones a few samples may be analysed for REE. If positive results are noticed, it is to be brought to the notice of TCC.
- Report on G-3 level of exploration works of above block should be submitted in following time line and cost is furnished below:
    - Dumarguda (G-3) Block, Dist. Surguja: **10 months** time for completions with a cost of **Rs 65.51** Lakh.
    - Murtadand (G-3) Block, Dist. Surguja with: **8 months** time for completions with a cost of **Rs 47.58** Lakh
    - Dandkesra North Area Mainpat (G-3) Dist. Surguja, with **8 months** time for completions with a cost of **Rs 37.98** Lakh
    - Parpatia Area Mainpat (G-3) Dist. Surguja with **10 months** time for completions with a cost of **Rs 177.24** Lakh
    - The total cost of Bauxite proposals is **Rs 328.31Lakhs**
- If G-3 level of exploration has encouraging results, then G-2 level of exploration will be carried out seamlessly.
- The committee recommends the proposal upto G-2 stage. However, the committee will be appraised the results after G-3 stage before the commencement of G-2 stage

Committee examined following Two (2) Limestone Blocks presented by DGM Chhattisgarh:

I. Proposal for Preliminary Exploration of Limestone in Khamardih-Gatadih Area, Distt. Raigarh, Chhattisgarh
II. Proposal for Preliminary Exploration of Limestone in Khairha Area, Distt. Raigarh, Chhattisgarh

Committee has following recommendations for all limestone blocks:

- Initially go for G-3 level of exploration at 800m x 800m drilling.
- Average depth of boreholes should be 30m.
- G-3 level of exploration should be completed in 6 months.

- After completing G-3 level of exploration, report should be submitted for review and then go for G-2 level if the committee is satisfied with the results.
- Khamardih-Gatadih Area, Distt. Raigarh, with 6 months for completions at a cost of **Rs 34.97 Lakh**.
- Khairha Area, Distt. Raigarh, with 6 months time for completions at a cost of **Rs 36.82 Lakh**.
- Total cost of two Limestone Exploration proposals is **Rs –71.79 Lakh**.

Committee examined following Eight (8) Iron Ore Blocks presented by DGM Chhattisgarh:

I. Proposal for Reconnaissance Survey for Iron Ore in North Bailadila Area, Distt. Dantewada, Chhattisgarh
II. Proposal for Reconnaissance Survey for Iron Ore in Hurtarai Area of District Kanker, Chhattisgarh.
III. Proposal For Reconnaissance Survey For Iron Ore in Aturbeda Area of District Kanker, Chhattisgarh
IV. Proposal for Reconnaissance Survey for Iron Ore in (Notified Area) of District Kanker, Chhattisgarh.
V. Proposal for Reconnaissance Survey for Iron Ore in Narayanpur (Notified Area) of District Narayanpur, Chhattisgarh.
VI. Proposal for Exploration for Iron Ore in Raoghat (Notified Area) of District Kanker, Chhattisgarh.
VII. Proposal for Photo Geology & Remote Sensing based Preliminary Survey for Iron Ore in Salhewara Area of District Rajnandgaon, Chhattisgarh.
VIII. Proposal for Photo Geology & Remote Sensing based Preliminary Survey For Iron Ore in Dallirajhara Area Of District Balod, Chhattisgarh.

Committee has following recommendations for all Iron ore blocks:

- All blocks are to be taken up at G-4 level with 1:12,500 scale mapping.
- Maximum 5 boreholes to be drilled in each block with vertical depth of 100m.
- Boreholes to be placed in Zig-Zag manner to cover the entire ore body.
- **Surface Sampling, pitting, trenching & survey at 1:4000 scale is not required.**
- **Each block to be completed in 12 months.**
- After completing the G-4 stage of exploration, results to be reviewed by TCC for next stage of exploration.
- North Bailadila Area (G-4) Dist.-Raigarh, 12 months˘time for completion with the exploration cost of **Rs 91.48 Lakh.**

- Hurtarai Area (G-4) Block, Dist.-Kanker 12 months˘time for completion with the exploration cost of **Rs 90.77 Lakh.**
- Rowghat (G-4) Block, Dist. Kanker 12 months˘time for completion with the exploration cost of **Rs 90.77 Lakh.**
- Rajhara (G-4) Block, Dist. Balod, 12 months˘time for completion with the exploration cost of **Rs -91.48 Lakh**.
- Salhewara (G-4), Block, Dist. Rajnandgaon 12 months˘time for completion with the exploration cost of **Rs -91.48 Lakh.**
- Narayanapur (G-4) Block, Dist. Narayanapur, 12 months˘time for completion with the exploration cost of **Rs 73.15 Lakh**.
- Notified Area (G-4) Block, Dist. Kanker, 12 months˘time for completion with the exploration cost of **Rs 63.55 Lakh**.
- Aturbeda Area (G-4) Block, Dist. Kanker 12 months˘time for completion with the exploration cost of **Rs -79.19 Lakh**.
- **Total cost of 8 Iron Ore exploration is Rs 671.85 Lakh**.
- **The total cost of 14 projects (8 Iron ore, 2 Limestone & 4 Bauxite) is Rs 1071.95 Lakh.**

(Action: DGM Chhattisgarh)

5. PROPOSAL FROM MECL (02 LIMESTONE BLOCKS, 01 TUNGSTEN BLOCK, 05 IRON ORE BLOCKS & 01 DIAMOND BLOCK)

MECL presented following proposals & committee recommendations in respect of various proposals are as under:

I. Proposal for General Exploration (G-2) for Cement grade Limestone in Jamodi Mahanna (Part-B) Block, Tehsil – Raghurajnagar, District: Satna, Madhya Pradesh

- Proposal approved by the committee in principal. DGM Madhya Pradesh will provide the map having mining barriers within 15 days. Accordingly, MECL will not take up the boreholes falling in the barrier areas.
- The committee recommends the proposal for G-2 stage of exploration.
- The Total Estimated cost of the project is **Rs 262.62 Lakhs** and the Time Schedule for completion of project **10 months** from the date of receipt of Sanction from NMET.

II. Proposal for Exploration (G3 / G2 Level) for limestone in Ranigaon – Gondaiya and extension areas, Tehsil- Kota, District: Bilaspur, Chhattisgarh

- Proposal withdrawn by MECL and will submit the same in forthcoming TCC, after evaluating the grid pattern of drilling required for the irregular limestone bodies be targeted.

III. Reconnaissance Survey (G4) for assessment of Tungsten mineralisation in Kuhi – Khobna –Agargaon gap areas, District: Nagpur, Maharashtra

- MECL has to take prior permission to carry out exploration in this area from DGM Maharashtra.
- Total 5 boreholes in gap area which are PBH-1, PBH-2, PBH-4 (It should cover 2^{nd} greisen body), PBH-5 & PBH-7.
- All boreholes to be planned at 45^0 inclination.
- Geophysical survey at this stage is not required.
- The Total Estimated cost of the project is **Rs 126.56-Lakh** and the Time Schedule for completion of project is **8 months** from the date of receipt of Sanction from NMET.

IV. Five (5)Proposal for G3 Level exploration for Iron in C-sub Block, D-sub Block, E-sub Block, G-sub Block, H-sub Block of Malangtoli Iron Ore Deposit, Districts: Sundargarh & Kendujhar, Odisha

- All blocks to be plotted in Regional Geological Map with structural data, all mining lease hold area, auctioned block to be plotted.
- Boreholes to be planned at 400m x 400m for G-3 stage of exploration.
- Boreholes along the margin are to be relocated keeping the area of influence.
- Boreholes grid spacing is to be planned locally and not regionally (the grid pattern of boreholes to be planned) considering the mine lease boundaries and boundary of blocks explored by other agencies.
- All boreholes to be drilled up to shale.
- Accordingly MECL has submitted the revised proposals in respect of ***C-sub Block & H-sub Block.*** Committee has recommended the same for EC.
- The Total Estimated cost of ***C-sub Block & H-sub Block*** will be **1201.55 Lakhs & 1027.64 Lakhs** respectively and the Time Schedule for completion of project is **12 months for each block** from the date of receipt of Sanction from NMET.

V. Regional Exploration Proposal (G-4 level) for Diamond in Salaiya Block, Village: Salaiya, Tehsil: Badwara, District: Katni (Murwara), Madhya Pradesh.

- MECL has proposed this block on the request of DGM, MP. Committee has opinion that as block is very small, same can be taken up by DGM MP in collaboration with GSI.
- For initial evaluation based on the petrology, while rock analysis and heavy mineral analysis subsequently, if felt necessary the block can be further explored.

➢ **The Total cost of 4 blocks (1 Limestone, 1 Tungsten and 2 Iron ore) projects of MECL recommended for approval is 2618.37 lakh.**

B. <u>TCC RECOMMENDATIONS IN DIFFERENT AGENDA ITEMS ARE AS FOLLOWS:</u>

i) Approval for drilling work in Kachola-Amargarh-Jhikri Area, (WR-RAJ - 5) District: Bhilwara, Rajasthan:

Committee (Geophysicist Member) has opined that as such there is no continuity of anomaly of Chargeability for planning drilling. However depending on the surface samples values 3 boreholes with 60m vertical intersections to be drilled at location of anomalous surface samples to check the strike continuity along the prospective contact.

ii) Approval for drilling work in Ambadala – Sunakhunti Area, (ER-ODS - 2) District: Rayagada, Odisha

MECL has carried out G-4 stage exploration in an area of *100 sq.km in Amba*dala-Sunakhunti Area. The G-4 stage exploration results reveals that *Amba*dala-Sunakhunti Area has 6 manganese bearing zones i.e, around Rukniburi, Anjuri, Paikranipinda, Periguda, Sunakhunti and Kusumguda villages out of these 6 Manganese bearing areas, GSI is presently working near Anjuri and planned to takeup exploration work in Rukniburi, Paikranipinda and Sunakhunti villages.

Committee recommended that further surface geological works are required in Kusumguda Area before taking up drilling. Therefore pitting and trenching in Kusumguda area can be taken up at 25m interval and if the results are positive the decision for further exploration by drilling can be taken.

iii) In order to estimate the Lumps and fines ratio permission to take up 4 pits in Jumka –Pathariposhi Iron Ore block, Dist : Sundargarh, Odisha

Committee approved to take up 4 pits for estimate the Lumps & Fine ratio.

iv) Permission to take-up heavy mineral separation for 40 samples from NMDC in respect of Diamond prospect of Chelima- Bhimasamudram Area under exploration by MECL.

As the discussed in 6th EC, MECL has to bear the cost of the analysis.

v) ***3 No of samples for Petrographic Studies in Chelima- Bhimasamudram Area.***
TCC approved the 3 no of petrography studied in Chelima- Bhimasamudram Area.

vi) ***Regarding payment of GST Bills raised from 1st July 2018.***
Committee recommends that as per the Government guidelines, all implementing agencies should mention the GST amount and GST number in the bill raised by them.

vii) ***Approval for drilling work in Iswal-Selu-Kathar-Tula (Thala) Area,(WR- RAJ 14) District: Udaipur Rajasthan***
As 11th TC has already approved the drilling, same will be noted in next EC.

(Action: MECL)

C: TIME OVER RUN OF MECL PROJECTS:

Committee has recommended approving the time over run in following blocks due to delay in analysis:

1) **Mandri – Panchala Block, Nagpur, Maharastra for Manganese, G-4**
Committee has recommended approving the time over run of 10 months due to delay in getting forest permission and delay in chemical analysis. However MECL need to monitor and resolve the issue of delay in chemical analysis.

2) **Lanjera– Futala Block, Bhandara, Maharastra for Manganese, G-4**
Committee has recommended approving the time over run of 6 months due to delay in getting forest permission.

3) **Ranigaon- Gondaiya Block, Bilaspur, Chhattisgarh for Limestone, G-3**
Committee has recommended approving the time over run of 09 months due to delay in chemical analysis. However MECL need to monitor and resolve the issue of delay in chemical analysis.

4) **Ghunchihai Block, Satna, Madhya Pradesh for Limestone, G-2**
Committee has recommended approving the time over run of 1 month due to delay in chemical analysis. However MECL need to monitor and resolve the issue of delay in chemical analysis.

5) **Naubasta - Kolard Block, Satna, Madhya Pradesh for Limestone, G-3**
Committee has recommended approving the time over run of 1 month due to delay in chemical analysis. However MECL need to monitor and resolve the issue of delay in chemical analysis.

D: REVIEW OF ONGOING PROJECTS OF MECL UNDER NMET FUNDING:

Committee reviewed following projects and their recommendations are as follows:

1) **Nagar-Untari Area, District-Garhwa, Jharkhand for Andalusite, G-4**

Committee has opined that the quality parameters of Andalusite in this area have not complying with industry requirement. No prospect could be delineated. Therefore, present program is discouraged for further exploration. The committee observed the significant time over run in implementation of the project and felt MECL needs to straightened its monitoring and review mechanism to avoid time over run in project implementation.

2) **Kusumarja & Adjoining Areas, District-Giridih, Jharkhand for Cu, Pb & Zn, G-4:**

No mineralised band with reasonable strike length is present in this area. Hence depending upon the data generated during the present studies, report may be submitted.

3) **Pihra area, Districts: Giridih & Kodarma, Jharkhand for Tin, G-4**

TCC appraised the results and decided that further exploration is not warranted at this stage. Further, this report has been peer reviewed by Shri. M. K. Roy, Ex-Regional Director, AMD and he agreed with the view of MECL that this area does not attract further exploration.

4) **Bachkakocha and Tankocha Area, Saraikela-Kharsawan, Jharkhand for Base Metals & Gold**, **G-4**

As results are not encouraging, this item may be concluded with the submission of report.

E. The committee decided that Guidelines for Exploratory Drilling of NMET funded projects, General Guidelines for NMET funded mineral exploration projects and Guidelines for preparation of proposals for G-4, G-3 & G-2 stage of exploration will be circulated to all the members of TCC, EC and NEA by NMET Secretariat.

F. Cost sheet (57 Nos) and work plan (57 Nos) of individual projects are enclosed with the minutes as Annexure 2 to Annexure 5.

The meeting ended up with the vote of thanks by Shri B. P. Raturi, Member Secretory, TCC of NMET.

22/5/18
(Shri J. V. Rama Rao)
Director (Geophysics) GSI &
Member, Technical cum-Cost
Committee (TCC), NMET

22/5/18
(Shri H.K. Verma)
DGM (Finance), HCL &
Member, Technical cum-
Cost Committee (TCC),
NMET

22/5/18
(Shri Prashant Kumar
Maharana)
Asst. General Manager
(Finance), NALCO, &
Member, Technical cum-Cost
Committee (TCC), NMET

22/5/18
(Shri S. K. Thakur)
GM (Expl) (Retd.), MECL &
Member, Technical cum-Cost
Committee (TCC), NMET

22/5/18
(Shri P Habibullah Khan)
Joint GM (Geology),
NMDC, Member,
Technical cum-Cost
Committee (TCC), NMET

22/5/2018
(Shri Pradeep Singh)
Director, NMET Secretariat
Member, Technical cum-Cost
Committee (TCC), NMET

22/5/18
(Shri S.K. Adhikari)
Chief Mining Geologist, IBM &
Member, Technical cum-Cost
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22.5.18
Shri Suresh Kumar
Regional Director, AMD,
Nagpur & Member,
Technical cum-Cost
Committee (TCC), NMET

Joyesh Bagchi
(Dr.Joyesh Bagchi)
Director (Technical) MoM &
Member, Technical cum-
Cost Committee(TCC), NMET

22/05/18
(Shri B. P. Raturi)
HOD-Exploration, MECL &
Member Secretary, Technical
cum-Cost Committee (TCC),
NMET

22/05/18
(Shri P. Tarafdar)
DDG PSS, GSI &
Member, Technical cum-
Cost Committee(TCC),
NMET

22/05/2018
(Shri D. Mohan Raj)
Addl. Director General GSI
& Head M-II &
Chairman, Technical cum-
Cost Committee(TCC), NMET

List of participant's present in 14th Meeting of Technical cum-Cost Committee(TCC) of NMET held on 21st & 22nd May, 2018 at GSI, Central Region, Nagpur

SL. No	Name of Participant's	Designation & Organisation	Participation	Mobile No	Email-Id	Signature (21st May)	Signature (22nd May)
1	Shri D. Mohan Raj	Add. Director General, GSI, Nagpur	In Chair	9765980957	hodnm2@gsi.gov.in.		
2	Dr. Joyesh Bagchi	Director (Technical), Ministry of Mines, N. Delhi	Member	9868918087	dirtech.mines@nic.in		
3	Shri B. P. Raturi	HOD-Exploration, MECL, Nagpur	Member Secretary	9422806417	bpraturi1000@yahoo.co.in		
4	Shri P. Tarafdar	Deputy Director General, GSI, Kolkata	Member	9507088547	tarafdar.pradipta@gmail.com		
5	Shri Pradeep Singh	Director, GSI	Member	9810233957	nmet-mines@gov.in		
6	Shri S. K. Adhikari	Chief Mining Geologist, IBM, Nagpur	Member	7583690311	[illegible]		
7	Shri. P Habibulla Khan	Joint GM (Geology), NMDC,	Member	9490759640	PHKhan@nmdc.co.in Khanphkhan@yahoo.co.in		
8	Shri Prasant Kumar Maharana	Asst. GM (Finance), NALCO, Bhubaneswar	Member	8500669500	pmaharana@nalcoindia.com		
9	Shri H. K. Verma	Dy.G.M (Finance), HCL, Kolkata	Member	9752860983	verma_hk@hindustancopper.com		
10	Shri J. V. Rama Rao	Director- Geophysics	Member	9440691284	ramajammi@gmail.com		22/5/18

SL.No	Name of Participant's	Designation & Organisation	Participation	Mobile No	Email-Id	Signature (21st May)	Signature (22nd May)
11	Dr. P. R. Golani	DG (Retd.) GSI	Member				
12	Shri S. K. Thakur	GM (Exp) (Retd.) MECL	Member	9405973443	SKT. 2020@gmail.com thakursk.mecl@gov	21/5/18	22/5/18
13	BRV Sushee Kumar	Director Deptt. Mines & Geology Telangana State	Invitee	94408 17777	directormines.tsd@gmail.com		
14	SURESH KUMAR	Regional Director AMD/DAE Nagpur	Member	9449110016	Sureshkumar.amd@gov.in		
15	K. C. Sahoo DDG	DDG, GSI WR	Invitee & member	8902758007	Kahnu_sahoo@rediffmail.com	21/5/18	22/5/18
16	Shiva Kumar M	GM(ME), KIOCL Ltd	Invitee	9481441686	bmed@kiocltd.com	21.05.18	22.05.18
17	P. Sharma	Jt GM (M.E) KIOCL Ltd	Invitee	9449690105	bmed@kioclltd.com	21/5/18	22/05/2018
18	Md. Nasim Ansari	Sr. Manager (Geol.) NMDC Ltd Hyderabad	Invitee	9963117045	mdnasiansari@nmdc.co.in	21/5/18	22/5/2018
19	S.V. Dhopeshwar	Asstt. Geologist DGM, Madhya Pradesh	Invitee	9425432417	sunjaygdia@gmail.com	21/5/18	22/5/18
20	Dr D R Patel	Joint Director DGM Chhattisgarh	—	9827153271	pateldrdgm@gmail.com		

SL.No	Name of Participant's	Designation & Organisation	Participation	Mobile No	Email-Id	Signature (21st May)	Signature (22nd May)
21	Shailesh Verma	Dy. Director (Geology)	Invitee	9826093781	shaileshverma040@gmail.com		
22	Gopa Krishna Bhuyan	Director Directorate of Geology		7008279506	bhuyan1958@gmail.com		
23	S.F. Chikhande	Joint Director DGM Maharashtra	Invitee	9850022433	director@mahadgm.gov.in		
24	S S Joshi	Geologist. DGM Maharashtra	Invitee	9822189623	director@mahadgm.gov.in.		
25	Indrani Sarkar	Sr. Account officer MECL	Invitee	7028442992	indrani705@rediffmail.com	Indrani Sarkar	Indrani Sarkar
26	RAMAKRISHNA RAO	Mines Superviser Dept of Mines & Geology	Govt.	9703027701	ramakrishna21678@gmail.com		
27	RAFI AHMED	JOINT DIRECTOR DGM, Telangana	Govt.,	9440817786	directorminestg@gmail.com		
28	G.B. REDDY	Dy. Director Govt. of Telangana	Govt	9440274676	dmgts@gmail.com		
29	G. Gautham	Nodal officer TRAC	Govt	9848530142	dgtrac@gmail.com		
30	P.K. Mishra	Sr. Mgr. (Geophysics) MECL Nagpur	Invitee	8318592205	prabhuman24x7@gmail.com	Prabhuman Mishra	
31	Dr. S. Kamalakannan	Sr Mgr (Geology) MECL, Nagpur	Invitee	9370621725	drskompnbh@gmail.com		
32	J. Narasimha Reddy	DGM(S) MECL, Nagpur	Invitee	9561506243	Jnmadhya@gmail.com		
33	JAYANT KUMAR	Dy GM (Explo)	-do-	9431004502	Jkumar.meecl@gmail.com		

SL.No	Name of Participant's	Designation & Organisation	Participation	Mobile No	Email-Id	Signature (21st May)	Signature (22nd May)
34	Bhim Ray	MECL, Nagpur Sr. Manager (G)	Invitee	9771182667	Raybhim9@gmail.com		
35	M.W. WADASKAR	MECL SR. Manager (Geology)	Invitee	9521870146	manojwadaskarmecl@gmail.com.		
36	ABHISHEK SRIVASTAVA	Sr. Geologist, MECL	Invitee	9454219228	abhineel07@gmail.com		
37	SAURABH VIVEK	Asst Manager (G) MECL	Invitee	9545425923	Saurabh.1215@gmail.com		
38	Pradeep Kulkarni	Sr M(Geo) MECL	Invitee	9425890225	Kulkarni.mecl@gmail.com		
39	Vikash Kumar	Asst. Mgr. (Geology)	Invitee	97551-35325	VIKGEO@GMAIL.COM		
40	Swarup Dhara	Asst. Manager (Geo) MECL	Invitee	9630307282	Swarupdhara@gmail.com		
41	Md. Dastageer	Asst Manager (Geology) MECL	Invitee	9560739350	dastageermd@gmail.com		
42	NANDISH. V	Asst. Manager (Geo) MECL	Invitee	9808599111	nandish88@gmail.com		
43	K.K. KAUSHIK	DGM (Coal & Lignite)	Invitee	9422805475	kaushikk47@gmail.com		
44	Mou Tudu	MECL, Sr. Geologist	Invitee	7218792130	moupakhiakash@gmail.com		
45							
46							
47							
48							

ANNEXURE - 2A/1

Table:6.2 COST ESTIMATE FOR EXPLORATION (G-2) OF LIMESTONE, JAMODI-MOHANNA BLOCK (PART B); DISTRICT: SATNA; MADHYA PRADESH

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	**DRILLING**										
1	Surface Drilling (2 Rigs)	m.	1714	6760	1535	10407300	6760		0	1535	10407300
2	Transportation	Km.	8.8	31	1800	55800	31		0	1800	55800
3	Accomodation	One time / Drill	185925	663715	2	1327430	663715		0	2	1327430
4	Camp Setting / Winding	Drill/ month	88808	244910	4	979640	244910		0	4	979640
5	Road Making (Flat Terrain)	Km	7800	18563	10	185630	18563		0	10	185630
	Sub Total A					**12955800**			**0**		**12955800**
B	**GEOLOGICAL WORK**										
1	Survey Party Days (1 party)	day	1180	5840	60	350400	5840		0	60	350400
2	Geologist Party days (1 party)	day	1541	7802	120	936240	7802		0	120	936240
3	Core Sampling Party days(2 parties)	day	525	2809	240	674160	2809		0	240	674160
4	Pitting/trenching		365	1673	10	16730					16730
	Sub-Total B					**1977530**			**0**		**1977530**
C	**LABORATORY STUDIES**										
a	**Chemical Analysis**										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78x5=110)	2580	1320	3405600	2580		0	1320	3405600
	ii) for 2 radicals SO_3 & P_2O_5	Nos	186 (76+110)	972	120	116640	972		0	120	116640
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78x5=110)	2580	60	154800	2580		0	60	154800
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	946 (76x11+110)	4992	150	748800	4992		0	150	748800
b	**Physical Analysis**										
1	Preparation of thin section	Nos	100	538	10	5380	538		0	10	5380
2	Petrographic Studies	Nos	226	1436	10	14360	1436		0	10	14360
3	Bulk density	Nos		139	10	1393	188.5		0	10	1380
	Sub-Total C					**4446970**			**0**		**4446970**
D	**Preservation of Core**										
i)	GI Core boxes	Nos.		2000	400	800000	2000		0	400	800000
ii)	Transportation of Core Boxes	Km	8.8	31.0	1800	55800	31		0	1800	55800
	Sub-Total D					**855800**					**855800**
	Total A+B+C+D					**20236100**			**0**		**20236100**
E	**EXPLORATION REPORT - 1% of (A+B+C+D) or 175000 whichever is more**				0	202361			0	1	202361
F	**PEER REVIEW OF DGR (Lump Sum)**	Nos		10000	1	10000	10000		0	1	10000
G	**Environmental Studies**										
1	**Satellite Imagery Study**	**Scene**	**99697**	**457948**	1	**457948.2**	**457948**		0	1	457948
2	**Base line Data Collection**	**(10 km radius area)**	**151273**	**694857**	1	**694857.398**	**694857**		0	1	694857
3	**Chemical Analysis**	**Nos**	**267400****	**604478**	1	**604478**	**604478**		0	1	604478
4	**Report Writing**	**Nos**	**50000**	**50000**	1	**50000**	**50000**		0	1	50000
	Sub Total G					**1807284**			**0**		**1807284**
	TOTAL A to G					**22256746**					**22256745**
	GST 18%										**4006034**
	Grand Total : with GST 18%										**26261779**
						Total					**Saye 262.617 Lakhs**

Note:	
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M.I. dated 05/07/2014 and based on
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates
3	**Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code 998343)

B.P. Rathi

Table:6.1 TIME SCHEDULE FOR EXPLORATION OF LIMESTONE IN JAMODI MOHANNA BLOCK													
Sl. No.	Activities	Unit	MONTHS										Total
			Financial Year -2018-19										
			1	2	3	4	5	6	7	8	9	10	
1	Camp Setting	Month	← →										1 month
2	Surface Drilling (2 rig)	m.		←	—	—	→						1535.00 m (in 48 BHs)
3	Pitting (1m x 1m x 1m)	Cu.m		← →									10.00
4	Survey Party days (1 Parties)	day		←	→								60
5	Geologist Party days (1 Parties)	day		←	—	—	→						120
6	Sampling Party days, (2 Parties)	day		←	—	—	→						240
7	Laboratory Studies	Nos.			←	—	—	—	→				1660 No
8	Camp Winding	Month						← →					1 month
9	Base line environmental Studies	month		←	—	—	—	—	—	—	→		8 months
10	Report Writing (including peer review)	Month							←	—	—	→	4 months

B.P. Ratan

Table:7.2 COST ESTIMATE FOR EXPLORATION (G-4) OF TUNGSTEN IN KUHI KHOBNA AREA ; DISTRICT: NAGPUR; MAHARASHTRA

SL. No	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs)	m.	1300	5148	945	4864860			0	945	4864860
2	Transportation	Km	8.8	31	150	4650			0	150	4650
3	Accomodation	One time / Drill	185925	663715	2	1327430			0	2	1327430
4	Camp Setting / Winding	Drill/ month	66806	244910	4	979640			0	4	979640
5	Road Making (Flat Terrain)	Km	7800	16563	7	129941			0	7	129941
	Sub Total A					7306521			0		7306521
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1160	5840	10	58400			0	10	58400
2	Geologist Party days (1 party)	day	1541	7802	120	936240			0	120	936240
4	Core Sampling Party days(2 parties)	day	525	2809	150	421350			0	150	421350
	Sub-Total B					1415990			0		1415990
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	a. Analysis for W (Borehole core samples)	Nos	110	570	1295	738150			0	1295	738150
	b. Analysis for Cr, Mo,Ta, Nb, V & Sn (Borehole core samples)	Nos	(110+78x5)	2580	110	283800			0	110	283800
2	Composite Samples										
	a. Analysis for W		110	570	30	17100			0	30	17100
	b. three radicals-Co, Ni & Mo	Nos	262 (78x2+110)	1374	10	13740			0	10	13740
b	Physical Analysis										
1	X-RD Studies on composite	Nos	1137	5605	20	112100			0	20	112100
2	Trace element Studies**** (15 Element) ICP-MS	Nos		4620	20	92400			0	20	92400
3	Preparation of thin section	Nos	100	538	20	10760			0	20	10760
4	Petrographic Studies	Nos	228	1436	20	28720			0	20	28720
5	Preparation of Polished Section	Nos	100	538	20	10760			0	20	10760
6	Mineragraphic Study	Nos	354	2023	20	40460			0	20	40460
7	Specific Gravity determination	Nos	32	188.5	30	5655			0	30	5655
	Sub-Total C					1353645			0		1353645
D	Preservation of Core										
i)	GI Core boxes	Nos		2000	230	460000			0	0	460000
ii)	Transportation of Core Boxes	Km	8.8	31	150	4650			0	0	4650
	Sub-Total D					464650			0		464650
	Total A+B+C+D					10540806			0		10540806
E	EXPLORATION REPORT - 1% of (A+B+C+D) or 175000 whichever is more					175000			0		175000
F	Peer Review (Lump Sum)					10000					10000
	GRAND TOTAL A to F					10725806			0		10725806
	GST 18%										1930645
	Grand Total : with GST 18%										12656451
						Total					Say 126.564 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. **Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
3. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 18% (SAC Code: 998349)

B Ratnam

B.P. Ratnam

ANN. 2B/2

Table:7.1 TIME SCHEDULE FOR G-4 LEVEL OF EXPLORATION OF TUNGSTEN IN THE KUHI-KHOBNA												
Sl. No.	Activities	Unit	Months								Total
			1	2	3	4	5	6	7	8	
1	Camp Setting	Month	←	→							1 month
2	Surface Drilling (2 rigs)	m.		←	—	—	→				945.00 m (In 5 BHs)
3	Survey Party days (1 Party)	day		↔							10
4	Geologist Party days (1 Party)	day		←	—	—	—	→			120
5	Core Sampling Party days, (2 Parties)	day			←	—	→				150
6	Laboratory Studies	Nos.			←	—	—	→			1445 No
7	Camp Winding	Month					↔				1 month
8	Report Writing Including PEER Review	Month					←	—	—	→	4 months

B. Rathor

B.P. Rathor

ANNEXURE-2C/1

Table-6.2 Cost Estimate for Iron Ore Exploration Malengtoli C Sub - Block District- Sundergarh, Odisha

SL. NO.	Item of Work	Unit	Base Rate	Escalated rates (2018-19)			Grand Total	
				Esc. Rate	Qty.	Amount	Qty.	Amount
			1.4.90					(Rs)
A	DRILLING							
1	Surface Drilling (4 rigs)	m	19716	19716	4050	79849800	4050	79849800
2	Pitting (1m x 1m x 1m)	Cu.m	395	1673	50	83650	50	83650
2	Transportation	Km	8.8	31	3000	93000	3000	93000
3	Accomodation (One time/ Drill)		165825	689715	4	2854860	4	2854860
4	Camp Setting	- do-	68600	244910	4	979640	4	979640
5	Road Making (Hilly Terrain)	Km	7800	27844	20	556880	20	556880
	Sub Total A					84217830		84217830
B	GEOLOGICAL WORK							
1	Survey Party days (2 party)	day	1100	5840	300	1752000	300	1752000
2	Geologist Party days (2 party)	day	1547	7952	360	2809720	360	2809720
3	Bulk Sampling Party days (1 party)	day	2650	13494	60	809640	60	809640
4	Core Sampling Party days (2 party)	day	525	2809	300	842700	300	842700
5	SUB TOTAL B					6209460		6209460
C	LABORATORY STUDIES							
1	Chemical Analysis							
	i) Primary & Check samplee							
	a. For 3 radicals Fe, SiO_2 & Al_2O_3 (core samp + Internal Check Samp	Nos	262(110 +76x2)	1374	3780	5193720	3780	5193720
	d) External Check Samples from NABL Labs for 3 radical (Fe, SiO2 & Al2O3)	Nos	262(110 +76x2)	1374	170	233580	170	233580
	ii) Composite Samples							
	a) Composite Samples for 7 radicals (Fe%, SiO2%, Al2O3%, P%, Mn%, S% & V2O5%)	Nos	268	2982	820	2445240	820	2445240
2	Physical Analysis							
i)	a) X-RD Studies on composite	Nos	1137	5605	30	168150	30	168150
ii)	b) Trace Element Study By ICPMS Method (15 elements- Cd,Sn,W,Sb,Mi,Ce,Nb,Ba,La,Bi,Co & Ni	Nos	-	4620	30	138600	30	138600
iii)	Preparation of thin section	Nos	100	638	30	19140	30	19140
iv)	Petrographic Studies	Nos	228	1436	30	43080	30	43080
v)	Preparation of polished section	Nos	100	538	30	16140	30	16140
vi)	Mineragraphic Studies	Nos	364	2023	30	60690	30	60690
vii)	Density Determination	Nos	24	136	50	6950	50	6950
viii)	Specific Gravity determination	Nos	32	188.5	50	9425	50	9425
	Sub-Total C					8331715		8331715
D	Preservation of Core							
i)	GI Core boxes	Nos		2000	1000	2000000	1000	2000000
ii)	Transportation of Core Boxes	Km	8.8	31.0	1600	49600	1600	49600
	Sub-Total D					2049600		2049600
	Total A+B+C+D							100808605
E	EXPLORATION REPORT - 1% of (A+B+C+D)				1			1008086
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	1	10000
	Grand Total : A to F							101826691
G	GST @ 18%							18328804
H	GRAND TOTAL							1201,55,495.44
Notes:								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M.I dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.							
2	**Niyamid Committee Rates with actual escalation as per RBI Index as on 31.3.2017 and the same for subsequent year							
3	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.							
4	**** Rate has taken from Schedule of Charges of differen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY							

Mineral Exploration and evaluation 18%(SAC Code: 998431)

(B.P. Raturi)

ANN:- 2C/2

Table 6.1: TIME SCHEDULE /ACTION PLAN , G3 LEVEL OF IRON ORE EXPLORATION IN MALANTOLI C- SUB BLOCK, ODISHA.

Sl. No.	Activities	Unit	MONTHS												Total
			1	2	3	4	5	6	7	8	9	10	11	12	
1	Camp Setting	Month	←	→											1 month
2	Core Drilling (4 rigs)	m.		←	—	—	—	→							4050 m (in 81 BHs)
	Bulk Sampling Party days, Core Sampling (1 party)	Day			←	→									60
3	Survey Party days (2 Parties)	day		←	—	—	—	→							300
4	Geologist Party days (2 Parties)	day		←	—	—	—	—	→						360
5	Sampling Party days, Core Sampling (2 parties)	day			←	—	—	—	→						300
6	Laboratory Studies	Nos.				←	—	—	—	—	→				5044 Nos.
7	Report Writing	Month							←	—	—	—	—	→	6 months

B. P. Ratan

ANNEXURE - 2D/1

Table-6.2 Cost Estimate for Iron Ore Exploration Malangtoli H Sub - Block District- Sundargarh, Odisha

SL. NO.	Item of Work	Unit	Base Rate	Escalated rates (2018-19)			Grand Total	
				Esc. Rate	Qty.	Amount	Qty.	Amount
			1.4.90					(Rs)
A	DRILLING							
1	Surface Drilling (4 rigs)	m	19716	19716	3330	65654280	3330	65654280
2	Pitting (1m x 1m x 1m)	Cu.m.	380	1673	60	83650	50	83650
2	Transportation	Km	0.6	31	3000	93000	3000	93000
3	Accomodation (One time/ Drill)		155225	663715	4	2654860	4	2654860
4	Camp Setting / Winding	- do-	58600	244910	4	979640	4	979640
5	Road Making (Hilly Terrain)	Km	7000	27844	20	556880	20	556880
	Sub Total A					70022310		70022310
B	GEOLOGICAL WORK							
1	Survey Party days (2 party)	day	1180	5840	300	1752000	300	1752000
2	Geologist Party days (2 party)	day	1541	7912	355	2809720	355	2809720
3	Bulk Sampling Party days (1 party)	day	2558	13434	60	806040	60	806040
4	Core Sampling Party days (2 party)	day	620	2809	300	842700	300	842700
5	SUB TOTAL B					6209460		6209460
C	LABORATORY STUDIES							
1	Chemical Analysis							
	i) Primary & Check samples							
	a. For 3 radicals Fe, SiO_2 & Al_2O_3 [core samp. + Internal Check Samp.	Nos	262(110 +76x2)	1374	3110	4273140	3110	4273140
	d) External Check Samples from NABL Labs for 3 radical (Fe, SiO2 & Al2O3)	Nos	262(110 +76x2)	1374	140	192360	140	192360
	ii) Composite Samples							
	a) Composite Samples for 7 radicals (Fe%, SiO2%, Al2O3%, P%, Mn%, S% & V2O5%)	Nos	268	2982	1110	3310020	1110	3310020
3	Physical Analysis							
i)	a) X-RD Studies on composite	Nos	1157	5605	30	168150	30	168150
ii)	b) Trace Element Study By ICPMS Method (15 elements- Cd,Sn,W,Sb,Mo,Ce,Nb,Ba,La,Bi,Co & Ni	Nos	-	4620	30	138600	30	138600
iii)	Preparation of thin section	Nos	100	538	30	16140	30	16140
iv)	Petrographic Studies	Nos	226	1436	30	43080	30	43080
v)	Preparation of polished section	Nos	100	535	30	16140	30	16140
vi)	Mineragraphic Studies	Nos	364	2023	30	60690	30	60690
vii)	Density Determination	Nos	24	139	50	6950	50	6950
viii)	Specific Gravity determination	Nos	32	188.5	50	9425	50	9425
	Sub-Total C					8234695		8234695
D	Preservation of Core							
i)	GI Core boxes	Nos		2000	850	1700000	850	1700000
ii)	Transportation of Core Boxes	Km	8.8	31.0	1600	49600	1600	49600
	Sub-Total D					1749600		1749600
	Total A+B+C+D							86216065
E	EXPLORATION REPORT - 1% of (A+B+C+D)				1			862161
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	1	10000
	Grand Total : A to F							87088226
G	GST @ 18%							15675881
H	GRAND TOTAL							102764106
Notes:								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2005-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.							
2	**Nyanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.							
3	*** As approved in the 12th meeting of Technical Committee & 1h meeting of Executive Committe of NMET.							
4	**** Rate has taken from Schedule of Charges of differen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY							

Mineral Exploration and evaluation 16% (SAC Code: 998343)

Ratnu

B P Ratnu

ANN- 2D/2.

Table 6.1: TIME SCHEDULE /ACTION PLAN , G3 LEVEL OF IRON ORE EXPLORATION IN MALANTOLI H- SUB BLOCK, ODISHA.

Sl. No.	Activities	Unit	MONTHS												Total
			1	2	3	4	5	6	7	8	9	10	11	12	
1	Camp Setting	Month	In Continuation with C Sub-Block												1 month
2	Core Drilling (4 rigs)	m.		←				→							3330 m (in 111 HHs)
	Bulk Sampling Party days, Core Sampling (1 party)	Day			←		→								60
3	Survey Party days (2 Parties)	day		←				→							300
4	Geologist Party days (2 Parties)	day		←					→						360
5	Sampling Party days, Core Sampling (2 parties)	day			←				→						300
6	Laboratory Studies	Nos.				←				→					4630 Nos.
7	Report Writing	Month							←					→	6 months

B.P. Ratnam

Annexure- 3/1

COST SHEET OF STAGE 01 WORKS OF POOMEDU IRON ORE BLOCK (PIOB) BY KIOCL LIMITED

Sl	Details of Work		Unit Price as per TCC	Unit	Qty	Total Price as per TCC
(a)	(b)		(c)	(d)	(e)	(f)=(c)*(e)
1	FIELD WORKS	Study and interpretation of Aero –geophysical Survey Maps of GSI and Investigation Reports. (On Actuals)		Nos	1	On Actuals
2		Field Traversing & Geological Mapping — Geological Party Days (2 party)	7802	days	200	15,60,400
3		Survey Party Days (1 party)	5840	days	90	5,25,600
4		Collection of Surface/ Bed Rock Samples / Chanel sample (200) — Surface outcrop Party Days	3080	days	150	4,62,000
5		Sample preparation Party Days for Bed rock samples(1 party)	2809	days	90	2,52,810
6		Collection of Pit / Trench Samples (20) — Excavation(Pittting & Trenching)	1673	cum	20	33,460
7		Trench /Pit sampling Party Days (1 party)	5227	days	24	1,25,448
8		Transportation charges (light vehicles,02 nos)	2000	days	120	2,40,000
9	LABORATORY WORKS	Primary Sample Preparation and Analysis	4992	Nos	200	9,98,400
10		Composite Sample Preparation and Analysis (@ 10%)	4992	Nos	20	99,840
11		Check Sample Analysis from external NABL certified laboratory (@ 10%) 6 radicals	2580	Nos	20	51,600
12		Analysis of Au & Ag (Fire Assy method)	1390	Nos	5	6,950
13		Davis Tube Recovery Test	7000	Nos	5	35000
14	ANALYTICAL STUDIES	Petrological Studies @ GSI				
15		a. Preparation of Polished Section.	1100	Nos	5	5,500
16		b. Complete Petrological Report of rock samples	3100	Nos	5	15,500
17		c. Photomicrographs of thin/ polished section	300	Nos	5	1,500
18		d Bulk Density	139	Nos	3	417
19	Report preparation					44144
20	**Total Cost**					44,58,569
21	**GST 18%**					8,02,542
22	**Total Cost including GST**					**52,61,112**
23	**Total Cost including GST**			**In Lacs**		**52.61**

Time Line :6 months

(B. P. Rathi)

Annexure -3/2

Stage wise time schedule for carrying out G4 exploration works of POOMEDU IRON ORE BLOCK (PIOB)

Stages	Details of the work	Duration in months		2018						2019					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
		Nos	Total	1	2	3	4	5	6	7	8	9	10	11	12
Stage 01 - Large scale mapping of 87 sq km in 1:12,500 scale	Study and Interpretation of Aero -geophysical Survey Maps of GSI and Investigation Reports.	3	6	←	→										
	Field Traversing & Geological Mapping of 87 sqkm	3		←	→										
	Collection of Surface/ Bed Rock Samples (130) & Collection of Pit / Trench Samples (20)	3		←	→										
	Laboratory Works & Analytical Studies	3		←	→										
	Preparation of Reports and Maps	1							↔						
Total Period in months			6												

(B.P. Ratnavi)

Annexure- 3/1

COST SHEET OF STAGE 01 WORKS OF POOMEDU IRON ORE BLOCK (PIOB) BY KIOCL LIMITED

Sl	Details of Work		Unit Price as per TCC	Unit	Qty	Total Price as per TCC
(a)	(b)		(c)	(d)	(e)	(f)=(c)*(e)
1	FIELD WORKS	Study and interpretation of Aero –geophysical Survey Maps of GSI and Investigation Reports. (On Actuals)		Nos	1	On Actuals
2		Field Traversing & Geological Mapping — Geological Party Days (2 party)	7802	days	200	15,60,400
3		Survey Party Days (1 party)	5840	days	90	5,25,600
4		Collection of Surface/ Bed Rock Samples / Chanel sample (200) — Surface outcrop Party Days	3080	days	150	4,62,000
5		Sample preparation Party Days for Bed rock samples(1 party)	2809	days	90	2,52,810
6		Collection of Pit / Trench Samples (20) — Excavation(Pittting & Trenching)	1673	cum	20	33,460
7		Trench /Pit sampling Party Days (1 party)	5227	days	24	1,25,448
8		Transportation charges (light vehicles,02 nos)	2000	days	120	2,40,000
9	LABORATORY WORKS	Primary Sample Preparation and Analysis	4992	Nos	200	9,98,400
10		Composite Sample Preparation and Analysis (@ 10%)	4992	Nos	20	99,840
11		Check Sample Analysis from external NABL certified laboratory (@ 10%) 6 radicals	2580	Nos	20	51,600
12		Analysis of Au & Ag (Fire Assy method)	1390	Nos	5	6,950
13		Davis Tube Recovery Test	7000	Nos	5	35000
14	ANALYTICAL STUDIES	Petrological Studies @ GSI				
15		a. Preparation of Polished Section.	1100	Nos	5	5,500
16		b. Complete Petrological Report of rock samples	3100	Nos	5	15,500
17		c. Photomicrographs of thin/ polished section	300	Nos	5	1,500
18		d Bulk Density	139	Nos	3	417
19	Report preparation					44144
20	**Total Cost**					44,58,569
21	**GST 18%**					8,02,542
22	**Total Cost including GST**					**52,61,112**
23	**Total Cost including GST**			**In Lacs**		**52.61**

Time Line :6 months

(B. P. Rathi)

Annexure -3/2

Stage wise time schedule for carrying out G4 exploration works of POOMEDU IRON ORE BLOCK (PIOB)

Stages	Details of the work	Duration in months		2018						2019					
				Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
		Nos	Total	1	2	3	4	5	6	7	8	9	10	11	12
Stage 01 - Large scale mapping of 87 sq km in 1:12,500 scale	Study and Interpretation of Aero -geophysical Survey Maps of GSI and Investigation Reports.	3	6	←	→										
	Field Traversing & Geological Mapping of 87 sqkm	3		←	→										
	Collection of Surface/ Bed Rock Samples (130) & Collection of Pit / Trench Samples (20)	3		←	→										
	Laboratory Works & Analytical Studies	3		←	→										
	Preparation of Reports and Maps	1							↔						
Total Period in months			6												

(B.P. Ratnavi)

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION FOR BAUXITE IN DUMARGUDA AREA (G-3) DIST. SURGUJA, CHATTISHGARH

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.98	(Rs)		(Rs)		(Rs)
A	DRILLING							
1	Surface Drilling (2 Rigs)	m.	1714	6780	490	3322200	490	3322200
2	Road Making (Flat Terrain)	Km	7600	13503				
	Sub Total A					3322200		3322200
B	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1183	5642				
2	Geologist Party days (1 party)	day	1541	7802	10	78020	10	78020
3	Core Sampling Party days(2 parties)	day	525	2803	100	280300	100	280300
	Sub-Total B					358320		358320
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	i) for Primary Samples 6 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	588	1398264	588	1398264
	ii) Analysis of Rbb	Nos	-	7681	10	76810	10	76810
	iii) for Compost Samples 6 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	58	137924	58	137924
	iv) for Check Samples 6 radicals (TiO2 Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	58	137924	58	137924
						1398264		1750922
	Sub-Total C					5079384		5437042
	Total A+B+C	Nos	120000	120000	1	120000	1	120000
D	Report Writing					120000		120000
	Sub Total					5199384		5557042
	TOTAL A to D							999368
E	GST 18%							6556410
	Grand Total : with GST 18%			Total in Lacs				65.51

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i)/2000-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule.
3. **Negotiated Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committee of NMET.
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 998343)

Ratan

B.P. Ratan

Member Secretary

TEC, NMET

ANN - 4A/2

5.8 QUANTUM OF WORK PROPOSED

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Domarguda block, Mainpat plateau distt. Surguja										
Item of work	1	2	3	4	5	6	7	8	9	10
Geological mapping	↔									
Bed rock sampling	↔									
Surveying (one party)	←	→								
Drilling		←	→							
Survey party for contouring and surface feature	←	→								
Sample preparation		←	→							
Geologist party days for drilling sampling and report work	←	→								
Analytical work Drill core sample		←	→							
Camp winding						←	→			
Geological report							←	→	→	

BP. Ratnam

ANNEXURE- 4B/1

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION FOR BAUXITE IN MURTADAND AREA (G-3) DIST. SURGUJA, CHATTISHGARH								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	DRILLING							
1	Surface Drilling (2 Rigs)	m	1714	5710	200	1142000	230	1566200
2	Road Making (Kkl Tomar)	Km	7200	15553				
	Sub Total A					1142000		1566200
B	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1180	5840		0	0	0
2	Geologist Party days (1 party)	day	1541	7802	10	78020	10	78020
3	Core Sampling Party days(2 parties)	day	525	3859	83	176967	83	176967
	Sub-Total B					254987		254987
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	(i) for Primary Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2370	586	1388204	586	1388204
	(ii) Analysis of REE	Nos	-	7651	10	76510	10	76510
	(iii) for Composit Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	55	137824	58	137824
	(iv) for Check Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2370	58	137824	58	137824
	Sub-Total C					1388264		1760922
	Total A+B+C					3619451		3972109
D	Report Writing	Nos	60000	60000	1	60000	1	60000
	Sub Total					60000		60000
	TOTAL A to D					3679451		4032109
E	GST 18%							725780
	Grand Total : with GST 18%							4757889
						Total IN Lacs		47.58
Note								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 27(i)/2006-M1, dated- 02/07/2014 and based on actual escalation as per RBI indices w.e.f 31-03-2017 and the same has been considered for subsequent year.							
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule							
3	**Approved Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.							
4	*** As approved in the 12th meeting of Technical Committee & 9th meeting of Executive Committe of NMET							
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.							

Mineral Exploration and evaluation 18%(SAC Code 998432)

Raturi

B.P. Raturi
member secretary
TCC, NMET

ANN- 4B/2

5.6 QUANTUM OF WORK PROPOSED

Table 2: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Murtadand block, Mainpat plateau distt, Surguja										
Item of work	1	2	3	4	5	6	7	8	9	10
Geological mapping	← →									
Bed rock sampling	← →									
Surveying (one party)	←	—	→							
Drilling		←	—	—	→					
Survey party for contouring and surface feature	←	—	—	—	—	→				
Sample preparation		←	—	—	—	—	→			
Geologist party days for drilling sampling and report work	←	—	—	—	—	→				
Analytical work Drill core sample		←	—	—	—	—	→			
Camp winding					←	—	—	→		
Geological report						←	—	—	→	

B. P. Ratun

ANNEXURE- 4C/1

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION FOR BAUXITE IN DANDKESRA NORTH AREA MAINPAT (G-3) DIST. SURGUJA, CHATTISHGARH								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Exc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	DRILLING							
1	Surface Drilling (2 Rigs)	m	1214	6700	120	1220400	100	1220400
2	Road Making (Flat Terrain)	Km	7500	18663		1220400		1220400
	Sub Total A							
B	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1190	5340				
2	Geologist Party days (1 party)	day	1541	7502	10	75020	10	75020
3	Core Sampling Party days(2 parties)	day	525	9509	39	100501	39	109561
	Sub-Total B					187571		187671
C	LABORATORY STUDIES							
a	Chemical Analysis:							
i	Primary + Check Samples							
	(i) for Primary Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (70x4+110)	2378	585	1390204	500	1390264
	(ii) Analysis of REE	Nos		7621	10	76210	10	76210
	(iii) for Conacsol Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	58	137924	58	137924
	(iv) for Check Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (76x4+110)	2378	58	137924	58	137924
	Sub-Total C					1390264		1750922
	Total A+B+C					2806235		3158893
D	Report Writing	Nos	60000	60000	1	60000	1	60000
	Sub Total					60000		60000
	TOTAL A to D					2866235		3218893
E	GST 18%							579401
	Grand Total : with GST 18%							3798294
				Total IN Lacs				37.98

Note:	
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2000-M.I. dated- 02/07/2014 are based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule
3	**Niyamad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & 8th meeting of Executive Committe of NMET
5	**** Rate has taken from Schedule of Charges of diffeon activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 998343)

B.P. Raturi
Member Secretary
TCC, NMET

5.9 QUANTUM OF WORK PROPOSED

Ann - 4C/2

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Dandkesra North, Mulapat plateau distt. Surguja										
Item of work	1	2	3	4	5	6	7	8	9	10
Geological mapping	◄►									
Bed rock sampling	◄►									
Surveying (one party)	◄	—	—	—	►					
Drilling		◄	—	—	—	►				
Survey party for contouring and surface feature	◄	—	—	—	—	►				
Sample preparation		◄	—	—	—	—	►			
Geologist party days for drilling sampling and report work	◄	—	—	—	—	—	►			
Analytical work Drill core sample		◄	—	—	—	—	—	►		
Camp winding					◄	—	—	—	►	
Geological report						◄	—	—	—	►

Ratan

B.P. Ratan

ANNEXURE- 4D/1

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION FOR BAUXITE IN PARPATIA AREA MAINPAT (G-3) DIST. SURGUJA, CHATTISHGARH

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	DRILLING							
1	Surface Drilling (2 Rigs)	m	1714	6700	1750	11855000	1750	11855000
2	Road Making (Flat Terrain)	Km	7800	18560				
	Sub Total A					11855000		11855000
B	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1160	5640				
2	Geologist Farm days (1 party)	day	1541	7802	20	156040	20	156040
3	Core Sampling Party days(3 parties)	day	525	2809	382	1073038	382	1073038
	Sub-Total B					1229078		1229078
C	LABORATORY STUDIES							
	Chemical Analysis							
1	Primary + Checs Samples							
	i) for Primary Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (78x4+110)	2378	566	1395264	566	1395264
	ii) Analysis of REE	Nos	-	7681	10	76810	10	76810
	iii) for Compost Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (78x4+110)	2378	58	137924	58	137924
	iv) for Check Samples 5 radicals (TiO2, Ga,V,SiO2 , Al2O3 , Fe2O3 & LOI)	Nos	414 (78x4+110)	2378	58	137924	58	137924
	Sub-Total C					1398264		1750922
	Total A+B+C					14482342		14845000
D	Report Writing	Nos	175000	175000	1	175000	1	175000
	Sub Total					175000		175000
	TOTAL A to D					14657342		15020000
E	GST 18%							2703600
	Grand Total : with GST 18%							17723600
				Total IN Lacs				177.24

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(I)/2006-MJ, dated- 02.07.2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoU Schedule of Rates.
3. **Niyamat Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of differen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 995343)

B.P. Ratan
Member Secretary
TCC, NMET

Ann-4D/2

5.9 QUANTUM OF WORK PROPOSED

Table No. 1: The detail of quantum of proposed work is given below:-

Time Schedule (in month) For exploration programme in Parpatia block of Mainpat plateau Surguja district												
Item of work	1	2	3	4	5	6	7	8	9	10	11	12
Geological mapping	↔											
Bed rock sampling	↔											
Surveying (one party)	←	—	—	—	—	→						
Drilling		←	—	—	—	—	→					
Survey party for contouring and surface feature	←	—	—	—	—	—	—	→				
Sample preparation		←	—	—	—	—	—	→				
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	→				
Analytical work Drill core sample			←	—	—	—	—	—	→			
Camp winding								←	—	→		
Geological report						←	—	—	—	—	→	

Ratan

B. P. Ratan

ANNEXURE-4E/1

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION OF LIMESTONE IN KHAMARDIH-GATADIH AREA (G-3) DIST. RAIGARH, CHATTISHGARH

SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.00	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK					0	0	0
1	Survey Party Days (1 party)	day	1150	5840	50	390100	50	390100
2	Geologist Party days (1 party)	day	1541	7802	44	123596	44	123596
3	Core Sampling Party days(2 parties)	day	525	2809		613695		613695
	Sub-Total A							
B	DRILLING							
1	Surface Drilling (2 Rigs)	m	1714	6780	240	1627200	240	1627200
2	Road Making (Flat Terrain)	Km	7500	18563		0	0	0
	Sub Total B					1627200		1627200
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78+5+110)	2580	240	619200	240	619200
	ii) Composite Samples (10%) (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3,P_2O_5 & LOI)	Nos	566 (78x5+110)	2982	24	71568	24	71568
	iii) Check Samples (10%)	Nos	566 (78x5+110)	2982	24	71568	24	71568
	Sub-Total C					762336		762336
	Total A+B+C					2765936		2903232
D	Report Writing	Nos	60000	60000	1	60000	1	60000
	Sub Total					60000		60000
	TOTAL A to D					2825936		2963232
E	GST 18%							533382
	Grand Total : with GST 18%							3496614
				Total IN Lacs				34.97

Note

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2005-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule
3. **Nayyar Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of differen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 18%(SAC Code: 998343)

Batra

B.P. Batra

Table No.3: The detail of quantum of work proposed:- Annx- 4E/2

Time Schedule (in month) For exploration programme in Khairha block, distt. Raigarh												
Item of work	Months											
	1	2	3	4	5	6	7	8	9	10	11	12
Geological mapping	↔											
Bed rock sampling	↔											
Surveying (one party)	←	—	—	→								
Drilling	←	—	—	→								
Survey party for contouring and surface feature	←	—	—	→								
Sample preparation	←	—	—	→								
Geologist party days for drilling sampling	←	—	—	→								
Analytical work	←	—	—	→								
Camp binding			←	—	→							
Geological report		←	—	—	—	→						

B.P. Ratun

B.P Ratun

ANNEXURE- 4F/1

Annexure-III

COST ESTIMATE FOR PRELIMINARY EXPLORATION OF LIMESTONE IN KHAIRHA AREA (G-3) DIST. RAIGARH, CHATTISHGARH								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			14.99	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1100	6840		0	0	0
2	Geologist Party days (1 party)	day	1041	7803	30	234090	30	234090
3	Core Sampling Party days(2 parties)	day	525	2809	49	137641	49	137641
	Sub-Total A					371731		371731
B	DRILLING							
1	Surface Drilling (2 Rigs)	m	1714	6780	270	1830600	270	1830600
2	Road Making (Flat Terrain)	Km	7800	18883		0	0	0
	Sub Total B					1830600		1830600
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	i) for 6 radicals (CaO MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (75x5+110)	2590	270	696600	270	696600
	ii) Composite Samples (10%) (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 P_2O_5 & LOI)	Nos	308 (75x6+110)	2982	27	80514	27	80514
	iii) Check Samples (10%) (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, P_2O_5 & LOI)	Nos	566 (75x8+110)	2982	27	80514	27	80514
						696600		857628
	Sub-Total C					2686901		3059929
	Total A+B+C					60000	1	60000
D	Report Writing	Nos	60000	60000	1	60000		60000
	Sub Total					0		0
						2986901		3119928
	TOTAL a to D							561587
E	GST 18%							3681515
	Grand Total : with GST 18%					Total IN Lacs		36.82
Note:								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M.I. dated- 02/07/2014 and based on annual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.							
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule							
3	**Nayanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.							
4	*** As approved in the 12th meeting of Technical Committee & 1th meeting of Executive Committe of NMET							
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.							

Mineral Exploration and evaluation 18%(SAC Code: 998343)

B. P. Ratan

B. P. Ratan

member secretary, TCNMET

Annx- AF/2

Table No.3: The detail of quantum of work proposed:-

Time Schedule (in month) For exploration programme in Khairha block, distt. Raigarh												
Item of work	Months											
	1	2	3	4	5	6	7	8	9	10	11	12
Geological mapping	◆											
Bed rock sampling	◆											
Surveying (one party)	◆	→	→	→								
Drilling	◆	→	→	→								
Survey party for contouring and surface feature		◆	→	→								
Sample preparation	◆	→	→	→								
Geologist party days for drilling sampling	◆	→	→	→								
Analytical work	◆	→	→	→								
Camp binding			◆	→	→							
Geological report	◆	→	→	→	→	→						

B. Ratan

ANNEXURE - 4b/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE IN NORTH BAILADILA AREA (G-4) DIST. RAIGARH, CHATTISHGARH								
Time Schedule								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate 1.4.90	Esc.Rate (Rs)	Qty.	Amount (Rs)	Qty	Amount (Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1180	6640		0	0	0
2	Geologist Party days (1 party)	day	1541	7802	100	780200	100	780200
3	Core Sampling Party days(2 parties)	day	525	600	500	300000	500	300000
4	Reconnaissance Geological							
	Sub-Total A					1080200		1080200
B	DRILLING							
1	Drilling run	m.		9947	500	4973500	500	4973500
2	Road Making (Flat Terrain)	Km	7800	16563		0	0	0
	Sub Total B					4973500		4973500
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	i) for Primary Samples 8 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5+110)	2560	500	1280000	500	1280000
	ii) for Composit Samples 6 radicals(Fe% Mn% Sio2% Al_2O_3 P% S%)	Nos	490 (76x5+110)	2560	50	128000	50	128000
	iii) for Check Samples 6 radicals(Fe%, Mn% Sio2% Al_2O_3, P%, S%,)	Nos	490 (76x5+110)	2560	50	128000	50	128000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	538	10	5380	10	5380
	Mineragraphic Studies	Nos	364	2023	10	20230	10	20230
	Sub-Total C							1578930
	Total A+B+C					6053700		7632630
D	Report Writing	Nos	60000	120000	1	120000	1	120000
	Sub Total					120000		120000
						0		0
	TOTAL A to D					6173700		7752630
E	GST 18%							1395474
	Grand Total : with GST 18%							9148174
				Total IN Lacs				91.48

Note:	
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(I) /2000-M.L. dated- 02/07/2014 are based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of Mod Schedule of
3	**Nityanand Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & in meeting of Executive Committe of NMET
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 998343)

Ratan
B. P. Ratan

ANNEXURE – 46/2

10. Quantum of Work Proposed:

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in North Bailadila area of Dantewada District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←	—	—	—	—	—	→							
Drilling		←	—	—	—	—	—	—	→					
Sample preparation		←	—	—	—	—	—	—	—	→				
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	—	→					
Analytical work Drill core sample			←	—	—	—	—	—	—	—	→			
Camp winding									←	—	→			
Geological report									←	—	—	→		

Datum
BP-Raikwar

ANNEXURE – 4H/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE IN HURTARAI AREA (G-4) DIST. KANKER, CHATTISHGARH

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			14.80	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day						
2	Geological Party days (1 party)	day	1561	7802	100	780200	100	780200
3	Core Sampling Party days(2 parties)	day	520	600	400	240000	400	240000
4	Reconnaissance Geological					1020200		1020200
	Sub-Total A							
B	DRILLING							
1	Drilling rish	m		9947	500	4973500	500	4973500
2	Road Making (Flat Terrain)	Km						
						4973500		4973500
	Sub Total B							
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	i) for Primary Samples 6 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5+110)	2560	500	1280000	500	1280000
	ii) for Composit Samples 6 radicas(Fe%, Mn%,Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5=110)	2560	50	128000	50	128000
	iii) for Check Samples 6 radicas(Fe%, Mn% Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5+110)	2560	50	128000	50	128000
	Petrographic Studies							
	Thin Section Preparation	Nos	100	536	10	5360	10	5360
	Polished Section Preparation	Nos	100	536	10	5360	10	5360
	Mineographic Studies	Nos	364	2023	10	20230	10	20230
	Sub-Total C							1576950
	Total A+B+C					5993700		7672650
D	Report Writing	Nos	60000	120000		120000	0	120000
	Sub Total					120000		120000
	TOTAL A to D					8113700		7792650
E	GST 18%							1384884
	Grand Total : with GST 18%							9077574
				Total IN Lacs				90.77

Note:	
1	Revised Rates of Promotional Work conc by MHCL on behalf of Govt. of India Vide letter No. 37(i) /2008-M.I. dated 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule
3	**Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year
4	*** As approved in the 19th meeting of Technical Committee & III meeting of Executive Committee of NMET.
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation: 18%(SAC) Code: 998345)

B. P. Ratun

B. P. Ratun

ANN – 4H/2

10. Quantum of Work Proposed

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Hurtaral area of Kanker District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←					→								
Drilling		←						→						
Sample preparation		←							→					
Geologist party days for drilling sampling and report work	←								→					
Analytical work Drill core sample			←								→			
Camp winding									←	→				
Geological report									←		→			

B.P. Ratan

ANNEXURE – 4 I/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE IN ROWGHAT (G-4) DIST. KANKER, CHATTISHGARH								
Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.99	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Geologist Party days (1 party)	day	1541	7802	100	780200	100	780200
2	Core Sampling Party days(2 parties)	day	525	602	400	240000	400	240000
	Sub-Total A					1020200		1020200
B	DRILLING							
1	Drilling rion	m		9947	500	4973500	500	4973500
	Sub Total B					4973500		4973500
C	LABORATORY STUDIES							
	# Chemical Analysis							
1	Primary + Check Samples							
	i) for Primary Samples 6 radicals(Fe% Mn% Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5+110)	2580	500	1290000	500	1290000
	ii) for Composit Samples 8 radicals(Fe% Mn%,Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5+110)	2580	50	129000	50	129000
	iii) for Check Samples 6 radicals(Fe%, Mn% Sio2%, Al_2O_3, P%, S%.)	Nos	490 (76x5+110)	2580	50	129000	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	538	10	5380	10	5380
	Mineragraphic Studies	Nos	364	2023	10	20230	10	20230
	Sub-Total C							1578990
	Total A+B+C					5993700		7572690
D	Report Writing	Nos	60000	120000	1	120000	1	120000
	Sub Total					120000		120000
	TOTAL A to D					6113700		7692690
E	GST 18%							1384684
	Grand Total : with GST 18%							9077374
				Total IN Lacs				90.77
Note								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) (2006-M.I dated 02/07/2014 are based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year							
2	Phosphoritic rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule							
3	**Niyamak Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.							
4	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET							
5	**** Rate has taken from Schedule of Charges of differen activities of DST as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19							

Mineral Exploration and evaluation 18%(SAC Code: 998343)

B.P. Raturi

ANN – 4I/2

10. Quantum of Work Proposed

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Rowghat (Notified area) of Kanker District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←	—	—	—	—	—	→							
Drilling		←	—	—	—	—	—	—	→					
Sample preparation		←	—	—	—	—	—	—	—	→				
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	—	—	→				
Analytical work Drill core sample			←	—	—	—	—	—	—	—	→			
Camp winding										←	—	→		
Geological report										←	—	—	→	

Ratan

BP. Ratan

ANNEXURE – 4J/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE IN Rajhara (G-4) DIST. BALOD, CHATTISHGARH

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty.	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1180	5843				
2	Geologist Party days (1 party)	day	1541	7632	100	763200	100	763200
3	Core Sampling Party days(2 parties)	day	525	600	500	300000	500	300000
4	Reconnaissance Geological							
	Sub-Total A					1080200		1080200
B	DRILLING							
1	Drilling rate	m.		9947	500	4973500	500	4973500
2	Road Making (Flat Terrain)	Km	7800	18563				
	Sub Total B					4973500		4973500
C	LABORATORY STUDIES							
	a Chemical Analysis							
1	Primary + Check Samples							
	i) for Primary Samples 8 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P% S%)	Nos.	490 (78x5+110)	2580	500	1290000	500	1290000
	ii) for Composit Samples 8 radicals(Fe%, Mn%,Sio2%, Al_2O_3, P% S%)	Nos	490 (78x5+110)	2580	50	129000	50	129000
	iii) for Check Samples 8 radicals(Fe%, Mn% Sio2%, Al_2O_3, P% S%)	Nos	480 (78x5+110)	2580	50	129000	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	538	10	5380	10	5380
	Mineragraphic Studies	Nos	364	2023	10	20230	10	20238
	Sub-Total C							1679990
	Total A+B+C					6053700		7632690
D	Report Writing	Nos	60000	120000	1	120000	1	120000
	Sub Total					120000		120000
	TOTAL A to D					6173700		7752690
E	GST 18%							1395484
	Grand Total : with GST 18%							9148174
					Total IN Lacs			91.48

Note

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(I) /2006-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule
3. **Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of differen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation thereof(SAC Code: 998431)

B.P. Rathore
Member Secretary
TCC, NMET

ANN-AJ/2 9

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Dallirajhara area of Balod District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←	→												
Drilling		←	—	—	—	—	—	—	→					
Sample preparation		←	—	—	—	—	—	—	—	→				
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	—	—	→				
Analytical work Drill core sample			←	—	—	—	—	—	—	—	—	→		
Camp winding									←	—	—	→		
Geological report									←	—	—	—	→	

Table No. 2: proposed quantum of work in Dallirajhara area district Balod, Chhattisgarh

Ratan

B. P. Ratan

ANNEXURE – 4K/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE IN SALHEWARA (G-4) DIST. RAJNANDGAON, CHATTISHGARH								
Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1183	5840		0	0	0
2	Geologist Party days (1 party)	day	1541	7602	100	760200	100	760200
3	Core Sampling Party days(2 parties)	day	625	800	500	300000	500	300000
4	Reconnaissance Geological							
	Sub-Total A					1060200		1060200
B	DRILLING							
1	Drilling Iron	m.		9647	500	4973500	500	4973500
2	Road Making (Flat Terrain)	Km	7000	10563		0	0	0
	Sub Total B					4973500		4973500
C	LABORATORY STUDIES							
	Chemical Analysis							
1	Primary - Check Samples							
	i) for Primary Samples 6 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5=110)	2580	500	1290000	500	1290000
	i) for Compost Samples 6 radicals(Fe%, Mn% Sio2%, Al_2O_3, P%, S%)	Nos	490 (76x5=110)	2580	50	129000	50	129000
	iii for Check Samples 6 radicals(Fe%, Mn% Sio2%, Al_2O_3, P%, S%.)	Nos	490 (76x5=110)	2580	50	129000	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	538	10	5380	10	5380
	Micrographic Studies	Nos	384	2023	10	20230	10	20230
	Sub-Total C							1578980
	Total A+B+C					6053700		7632690
D	Report Writing	Nos	60000	120000	1	120000	1	120000
	Sub Total					120000		120000
	TOTAL A to D					6173700		7752690
E	GST 18%							1395484
	Grand Total : with GST 18%							9148174
					Total IN Lacs			91.48
Note								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1) 2006-M.I dated- 03/07/2014 and based on actual escalation as per RBI Indices as on 31-03-2017 and the same has been considered for subsequent year.							
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule							
3	**Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.							
4	*** As approved in the 12th meeting of Technical Committee & 7th meeting of Executive Committe of NMET							
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19							

Mineral Exploration and evaluation 18%(SAC Code: 998343)

Ratan

B P Ratan

8. Quantum of Work Proposed

The details of Quantum of proposed work are given below:-

Table No. 1: The detail of quantum of proposed work is given below:-

Time Schedule (in month) Preliminary Survey from Iron ore Salhewara area of Rajnandgaon District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←	—	—	—	—	→								
Drilling		←	—	—	—	—	—	→						
Sample preparation		←	—	—	—	—	—	—	→					
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	—	→					
Analytical work Drill core sample			←	—	—	—	—	—	—	—	→			
Camp winding									←	—	→			
Geological report									←	—	—	→		

Ratan

BP Ratan

ANNEXURE – 4 L/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE NARAYANAPUR (G-4) DIST. NARAYANAPUR, CHATTISHGARH								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1180	5840		0	0	0
2	Geologist Party days (1 party)	day	1541	7802	100	780200	100	780200
3	Core Sampling Party days(2 parties)	day	575	600	550	330000	550	330000
						0	0	0
	Sub-Total A					1110200		1110200
B	DRILLING							
1	Surface Drilling (2 Rigs)	m	1714	6780	500	3390000	500	3390000
2	Road Making (Flat Terrain)	Km	7880	18553		0	0	0
								0
	Sub Total B					3390000		3390000
C	LABORATORY STUDIES							
a	Chemical Analysis							
	Primary + Check Samples							
	i) for Primary Samples 8 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	400 (280+110)	2580	500	1290000	500	1290000
	ii) for Compost Samples 8 radicals(Fe%, Mn%,Sio2%, Al_2O_3, P%, S%)	Nos	430 (780+110)	2580	50	129000	50	129000
	iii) for Check Samples 8 radicals(Fe%, Mn% Sio2%, Al_2O_3, P%, S%)	Nos	490 (760+110)	2580	50	129000	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	538	10	5380	10	5380
	Mineragraphic Studies	Nos	364	2023	10	20230	10	20230
	Sub-Total C							1678890
	Total A+B+C					4500200		6079190
D	Report Writing	Nos	60000	120000	1	120000	1	120000
	Sub Total					120000		120000
	TOTAL A to D							6199190
E	GST 18%							1115854
	Grand Total : with GST 18%							7315044
					Total IN Lacs			73.15
Note								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 370) /2008-M.I. dated 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.							
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule							
3	**Nityanad Committee Rates with actual escalation as per RBI Index as on 31.3.2017 and the same for subsequent year.							
4	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.							
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.							

Mineral Exploration and evaluation 18%(SAC Code: 998340)

B. P. Raturi

10. Quantum of Work Proposed:

ANN: 4L/2

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Iron Ore in Narayanpur (Notified area) of Narayanpur District														
Item of work	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Geological mapping	◄					►								
Drilling		◄						►						
Sample preparation		◄							►					
Geologist party days for drilling sampling and report work	◄								►					
Analytical work Drill core sample			◄								►			
Camp winding									◄		►			
Geological report									◄			►		

NMET/Iron/Narayanpur/Nagpur/21.05.2018

Ratan

BP Ratan

ANNEXURE - 4M/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE NOTIFIED AREA (G-4) DIST. KANKER, CHHATTISHAGARH								
Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days : (1 party)	day	1180	5840				
2	Geologist Party days (1 party)	day	1541	7602	100	760200	100	760200
3	Core Sampling Party days(2 parties)	day	525	600	400	240000	400	240000
						0	0	0
	Sub-Total A					1020200		1020200
B	DRILLING							
1	Surface Drilling (2 Rigs)	m.	1714	67601	400	2712000	400	2712000
2	Road Making (Flat Terrain)	Km	7800	18963				
	Sub Total B					2712000		2712000
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary + Check Samples							
	(i) for Primary Samples 6 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	490 (78x5+110)	2580	500	1250000	500	1290000
	(ii) for Compost Samples 6 radicals(Fe%, Mn%,Sio2%, Al_2O_3, P%, S%)	Nos	490 (78x5+110)	2560	50	128000	50	129000
	(iii) for Check Samples 6 radicals(Fe%, Mn% Sio2%, Al_2O_3, P%, S%.)	Nos	490 (78x5+110)	2530	50	126500	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	100	538	10	5380	10	5380
	Polished Section Preparation	Nos	100	536	10	5380	10	5380
	Mineragraphic Studies	Nos	364	2023	10	20230	10	20230
	Sub-Total C					1290000		1879990
	Total A+B+C					5022200		5311190
D	Report Writing	Nos	60000	74644	1	74644	1	74644
	Sub Total					74644		74644
	TOTAL A to D					5096844		5385834
E	GST 18%							969450
	Grand Total : with GST 18%							6355284
				Total IN Lacs				63.55
Note:								
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M.I dated 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year							
2	Photographic rates have been considered as there is no rates for it mentione in Revised Rates of Promotional Work of MoM Schedule							
3	**Nityanand Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year							
4	*** As approved in the 128th meeting of Technical Committee & 8th meeting of Executive Committe of NMET							
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 43% escalation on the same has been considered for FY 2018-19.							

Mineral Exploration and evaluation 18%(SAC Code: 998343)

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B.P. Baturi

Ann-4M/2

10. **Quantum of Work Proposed**

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Iron Ore in ~~Ahirbeda~~ Nathia area of Kanker District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←	—	—	—	—	→								
Drilling		←	—	—	—	—	—	→						
Sample preparation		←	—	—	—	—	—	—	→					
Geologist party days for drilling sampling and report work	←	—	—	—	—	—	—	—	→					
Analytical work Drill core sample			←	—	—	—	—	—	—	—	→			
Camp winding									←	—	→			
Geological report									←	—	—	→		

Ratan

B.P. Ratan

ANNEXURE-4N/1

Annexure-III

COST ESTIMATE FOR RECONNAISSANCE SURVEY FOR IRON ORE ATURBEDA AREA (G-4) DIST. KANKER, CHHATTISHAGARH								
SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Total	
			Rate	Esc.Rate	Qty.	Amount	Qty	Amount
			1.4.98	(Rs)		(Rs)		(Rs)
A	GEOLOGICAL WORK							
1	Survey Party Days (1 party)	day	1180	5840				
2	Geologist Party days (1 party)	day	1541	7802	100	780200	100	780200
3	Core Sampling Party days(2 parties)	day	525	600	400	240000	400	240000
	Sub-Total A					1020200		1020200
B	DRILLING							
1	Surface Drilling (2 Rigs)	m	171*	6780				
2	Road Making (Flat Terrain)	Km	7600	18003				
3	Drilling cost	m		9947	402	3978800	400	3978800
	Sub Total B					3978800		3978800
C	LABORATORY STUDIES							
a	Chemical Analysis							
1	Primary - Check Samples							
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (75x5+110)	3563	500	1290000	500	1290000
	ii) for Composit Samples 8 radicals(Fe%, Mn%,Sio2%, Al_2O_3, P%, S%)	Nos	490 (75x5+110)	2580	50	129000	50	129000
	iii) for Check Samples 6 radicals(Fe%, Mn%, Sio2%, Al_2O_3, P%, S%)	Nos	490 (75x5+110)	2580	50	129000	50	129000
	Petrographic Studies							
	Thin Section Preparations	Nos	150	538	10	5380	10	5380
	Polished Section Preparation	Nos	150	538	10	5380	10	5380
	Mineregraphic Studies	Nos	384	2023	10	20230	10	20230
	Sub-Total C					1290000		1578990
	Total A+B+C					6289000		6577990
D	Report Writing	Nos	60000	131559.8	1	131559.8	1	131560
	Sub Total					131560		131560
	TOTAL A to D					6420560		6709550
E	GST 18%							1207719
	Grand Total : with GST 18%							7917269
				Total IN Lacs				79.17

Note:

1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-MI dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone. (i) Revised Rates of Promotional Work of MoM Sched.III
3	**Rbyased Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe at NMET.
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 998343)

B.P. Raturi

10. Quantum of Work Proposed

Ann. AN/2

Table No. 1: The detail of quantum of proposed work is given below:-

Time Shedule (in month) For exploration programme in Iron Ore in Aturbeda area of Kanker District														
Item of work	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**	**14**
Geological mapping	←					→								
Drilling		←						→						
Sample preparation		←							→					
Geologist party days for drilling sampling and report work	←								→					
Analytical work Drill core sample			←								→			
Camp winding									←		→			
Geological report									←			→		

Baturn

B.P. Baturn

ANNEXURE-5A/64/1

ANNEXURE-III

Table:8.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-I,

SL No.	Item of Work	Unit	Rate	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.50	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drill (0 / 1 Rigs)	m	1714	4750	200	2054000	5700		0	200	2054000
2	Transportation	KM	8.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One Site / Day	383325	993715	1	993715	993715		0	1	993715
4	Camp Setting	Unit/ moves	68500	344898	1	344898	344898		0	1	344898
5	Hire Making Flat terrain)	Km	2000	18953	6	113718	18953		0	6	113718
	Sub Total A					3262781			0		3262781
B	GEOLOGICAL WORK										
1	Survey Plane Table (1 party)	Site	1180	5640	10	56400	5640		0	10	56400
2	Geologist Party days (1 party)	Day	1541	7602	75	570150	7602		0	75	570150
3	Core Sampling Party days (1 party)	Day	525	2809	75	210675	2809		0	75	210675
	Sub-Total II					854225			0		854225
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary Check Samples										
	i) for 9 radicals (CaO, Na_2O, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2660	330	851400	2660		0	330	851400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	188 (70+110)	972	30	29160	972		0	30	29160
	iii) External Check Samples for 9 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2660	15	39900	2660		0	15	39900
2	Complete Analysis										
	9 for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	847 (70x11+ 110)	4602	40	184080	4602		0	40	184080
b	Physical Analysis										
1	Preparation of thin section	Nos	100	533	5	2660	533		0	5	2660
2	Petrographic Studies	Nos	220	1420	5	7100	1420		0	5	7100
3	Specific Gravity (upto 100 G)	Nos	37	198.5	10	1985	198.5		0	10	1985
	Sub-Total C					1130085			0		1130085
D	Preservation of Core										
a	Of Core boxes	Nos		2000	50	100000	2000		0	50	100000
b	Transportation of Core Boxes	Km	8.8	31	1250	38750	31		0	1250	38750
	Sub Total D					138750					138750
	Total A+B+C+D					5386241			0		5386241
E	EXPLORATION REPORT - 1.6% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DSR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					5386241					5386241
	GST 18%										969523
	Grand Total with GST 18%										6355764
						Total					Rupee 63.55 Lakhs

Note	
1	Revised Rates of Pharmaceutical Work done by MECL on behalf of Govt. of Uttarakhand vide letter No. 3701 /IR/08-MECL dated- 03/07/2018 and 50000.00 annual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year
2	Pharmaceutical rates have been considered as there is no rates for Limestone in Revised Rates of Pharmaceutical Work of MoM Schedule of Rates.
3	**Revised Corrected Rates with annual escalation as per RBI Index as on 31.3.2017 and the same for subsequent year
4	*** As approved in the 12th meeting of Technical Committee & in meeting of Executive Committee of MECL
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

B P Ratnam

B P Ratnam

ANN- 5A/64/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-I

Sl. No.	Activities	Unit	MONTHS							Total
			1	2	3	4	5		6	
1	Camp Setting	Month	←	→						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→					300.00
3	Survey Party days (1 Party)	day		←	→					10
4	Geologist Party days (1 Party)	day		←	→					75
5	Core Sampling Party days, (1 Party)	day		←	→					75
6	Laboratory Studies	Nos.			←	→				430 No
7	Camp Winding	Month	Continue to G-3							
8	Report Writing (including peer review)	Month				←	→			4 months

B.P. Raturi

ANNEXURE – 5A/1/63/1

ANNEXURE-II

Table:6.3 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TIRPTLBT-1,

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)				Financial Year (2019-20)				Total	
			Rate	Esc.Rate	Qty.	Amount		Esc. Rate	Qty	Amount		Qty	Amount
			1.4.03	(Rs)		(Rs)				(Rs)			(Rs)
A	DRILLING												
1	Surface Drilling (1 Rigs)	M	1714	6745	320	2334400		8090		0		320	2324000
2	Transportation	Km	0.0	31	1252	38780		31		0		1252	38780
3	Accomodation	One time (Cell	165618	165618	1	165718		165718		0		1	165718
4	Camp Setting (Winter)	One time	69026	244010	1	244010		244010		0		1	244010
5	Road Making (if let Terrain)	Km	7826	18663	0	02815		10063		0		0	02815
	Sub Total A					3074193				0			3074193
B	GEOLOGICAL WORK												
1	Senior Parti Days (1 party)	day	1193	5640	60	338400		5640		0		60	338400
2	Geologist Party days (2 party)	day	1641	7600	90	702180		7802		0		90	702180
3	Core Sampling Party days(2 parties)	day	625	2838	90	255420		2838		0		90	255420
4	Sub Sampling Party Days (1 Party)	day	2500	13420	30	402570							402570
	Sub-Total B					1698600				0			1698600
C	LABORATORY STUDIES												
a	Chemical Analysis												
1	Primary + Check Samples												
	i) for 5 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (76+3+110)	2580	332	851400		2880		0		330	851400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	165 (76+110)	572	33	28188		572		0		33	28188
	iii) Extra for Check Samples for 5 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	492 (76x5+110)	3560	10	38700		2581		0		10	38700
2	Composite Sampling												
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5 /WO_3, K_2O, Na_2O, TiO_2)	Nos	946 (76x11+110)	4582	40	186930		4582		0		40	186930
b	Physical Analysis												
1	Preparation of thin section	Nos	100	537	10	5300		530		0		10	5300
2	Petrographic Studies	Nos	329	1439	10	14390		1439		0		10	14390
3	Bulk Density	Nos	24	133	10	1300		1305		0		10	1300
	Sub-Total C					1145070				0			1145070
D	Preservation of Core												
i	Cl Core boxes	Nos		2832	40	121700		3180		0		40	120000
H	Transportation of Core Boxes	Km	0.0	31.0	1252	38752		31		0		1252	38760
	Sub-Total D					160760							160760
	Total A+B+C+D					6081570				0			6081570
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	120000				0		1	120000
F	PEER REVIEW OF DPR (Lump Sum)	Nos		10000	1	10000		10000		0		1	10000
	TOTAL A to F					6211570							6211570
	GST 18%												1118083
	Grand Total : with GST 18%												7329653
							Total						Says 73.30 Lakhs
Note													
1	Revised Rates of Provisional Work done by MECL on behalf of Govt. of India Vide letter No. 370) /2006-M I dated- 03/07/2014 and based on actual escalation as per RBI release as on 31-03-2017 and the same has been considered for subsequent year												
2	Presently rates have been considerd there is no rates for Limestone in Revised Rates of Provisional Work of MoM Schedule of Rates.												

B. Batra

B.P. Ratra

Ann- SA/1/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-1

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				300 (6 Bhs)
3	Survey Party days (1 Party)	day		←	→				60
4	Geologist Party days (1 Party)	day		←	→				90
5	Sampling Party days, (1 Party)	day		←	→				90
6	Bulk sampling paty days(1Party)	day		←	→				30
7	Laboratory Studies	Nos.		←	→				445 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←	→		3 months

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B.P. Ratan

ANNEXURE-III

ANNEXURE – SA/1/G2/1

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-1

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface DW rig (Rigel/ DTH)	m		750	1000	750000	0		0	1000	750000
2	Overburden	Km	6.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time (Drill	102825	683715	2	1367430	683715		0	2	1367430
4	Camp Working	Drill month	66608	244910	4	979640	244910		0	4	979640
5	Road Making (Flat Terrain)	Km	7000	18563	10	185630	18563		0	10	185630
	Sub Total A					3330200			0		3330200
B	GEOLOGICAL WORK										
1	Survey Party (3 part)	day	1161	5907	20	118140	5940		0	20	118140
2	Geologist Party (3 party)	day	1541	7569	80	702150	7569		0	80	702150
3	Core Sampling Party (3 parties)	day	525	2529	60	252810	2529		0	60	252810
	Sub-Total B					1153140			0		1153140
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (760+110)	2530	1100	2538000	2580		0	1100	2838000
	ii) for 2 radicals SiO_2 & P_2O_5	Nos	100 (75+110)	972	100	97200	972		0	100	97200
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (760+110)	2580	50	129000	2580		0	50	129000
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O, TiO_2	Nos	949 (760+110+79)	4833	125	624000	4992		0	125	624000
b	Physical Analysis										
1	Preparation of thin section	Nos	100	536	15	8070	536		0	15	8070
2	Petrographic Studies	Nos	225	1436	15	21540	1436		0	15	21540
3	Specific Gravity determination	Nos	50	153.5	20	3770	153.5		0	20	3770
	Sub-Total C					3731680			0		3731680
D	Preservation of Core										
i)	GI Core boxes	Nos.		2000	250	500000	2000		0	250	500000
ii)	Transportation of Core Boxes	Km	8.8	31.0	650	20150	31		0	650	20150
	Sub-Total D					520150			0		520150
	Total A+B+C+D					8672120			0		8672120
E	EXPLORATION REPORT – 1.5% of (A+B+C+D) or 120000 whichever is more				1	130539			0	1	130539
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	89981	467948.2	1	467948.1999	467948.2		0	1	467948
2	Base line Data Collection	(10 km radius area)	135273	694857.4	1	694857.2982	694857.4		0	1	694857
3	Chemical Analysis	Nos	913400**	534478	1	534478	534478		0	1	534478
4	Report Writing	nos	80000	50000	1	50000	50000		0	1	50000
	Sub Total G					1857384			0		1857384
H	***Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to H					10942943					10942943
	GST 18%										1915730
	Grand Total with GST 18%										12858673
						Total					Rupees 135.00 Lakhs

Note	
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M(I) dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2	Hexaphonite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of Model Schedule of Rates.
3	**Hypnoid Committee Rates with actual escalation as per RBI rates as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & 6th meeting of Executive Committee of NIWET
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

B. P. Raturi

ANN- 5A/1/02/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-1

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19							Total
			1	2	3	4	5	6	7	
1	Camp Setting	Month	← →							1 Month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.		←	→					1000 m (in 20 BHs)
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Partie)	day		←	→					90
5	Sampling Party days, (2 Parties)	day		←	→					90
6	Laboratory Studies	Nos.			←	→				1425 No
7	Camp Winding	Month				← →				1 Month
8	Environmental Studies			←					→	6 months
9	Report Writing (Including peer review)	Month					←	→		3 months

ANNEXURE - 5A/2/M3/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-2,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig/s)	m	1714	5780	350	2023000	6768		0	350	2023000
2	Transportation	Km	A B	31	1250	38750	31		0	1250	38750
3	Accomodation	One time (Dril	185929	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	One (Drill	68808	244910	1	244910	244910		0	1	244910
5	Road Making (Ten Tems rl	Km	7502	19562	0	92815	19562		0	5	83815
	Sub Total A					3412190			0		3412190
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	3183	9849	50	353450	9849		0	50	353450
2	Geologist Party days (2 party)	day	1941	7002	90	702180	7002		0	90	702180
3	Core Sampling Party days(2 parties)	day	525	2000	90	252810	2809		0	90	252810
4	Bulk Sampling Party Days (1 Party)	day	2595	13403	30	403170					403170
	Sub-Total B					1708300			0		1708300
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	430 (76x5+110)	2583	385	993200	2580		0	385	993300
	ii) for 2 radicals SO_3 & P_2O_5	Nos	185 (75+110)	572	40	38880	972		0	40	38880
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (76x5+110)	2580	20	51600	2580		0	20	51600
2	Exclusive Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O TiO_2	Nos	345 (76x11+110)	4902	50	249630	4550		0	50	249630
b	Physical Analysis										
1	Preparation of thin section	Nos	100	538	10	6380	538		0	10	6380
2	Petrographic Studies	Nos	223	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	1380	10	13800	1805		0	10	13800
	Sub-Total C					1364010			0		1364010
D	Preservation of Core										
i	GI Core boxes	Nos		2000	70	140000	2000		0	70	140000
ii	Transportation of Core Boxes	Km	B B	31.2	1250	38750	31		0	1250	38750
	Sub-Total D					178750					178750
	Total A+B+C+D					6653510			0		6653510
E	EXPLORATION REPORT 1.8% of (A+B+C+D) or 120000 whichever is more				1	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					6783510					6783510
	GST 18%										1221303
	Grand Total : with GST 18%										8004813
						Total					Says 80.05 Lakhs

Note:

1. Revised Rates of Provisional Work done by NECL on behalf of Govt. of India Vide letter No.-3(6)/2006-M I (Gen)- 1267/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2. Proximate rates have been considered as there is no rates for Limestone in Revised Rates of Provisional Work of MoM Schedule of Rates

Mineral Exploration and evaluation 15% (SAC Code: 998341)

Baturs

B.P. Baturs

Amd – 5A/2/42/2

ANNEXURE-I

Table:8.1 TIME SCHEDULE FOR G-3 EXPLORATION for ISSPTLST-S

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	In consecutive order						1 month
2	Surface Drilling (1 rig(250meter rig/Month)	m.							350 (2 Bits)
3	Survey Party days (1 Party)	day							60
4	Geologist Party days (1 Party)	day							90
5	Sampling Party days, (1 Party)	day							90
6	RLB sampling party days (1party)	Day							30
7	Laboratory Studies	Nos.							535 Nos
8	Camp Winding	Month							1 month
9	Report Writing (including peer review)	Month							3 months

B.P. Raitan

B.P. Raitan

ANNEXURE – 5A/2/62/1

Annexure-III

Table-8.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-7

Sl. No	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Est.Rate	Qty.	Amount	Est. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	M		700	1250	787500	0		0	1250	787500
2	Trimmertation	Km	8.5	31	2550	77550	31		0	2500	77500
3	Accomodation	One Time / Set	165835	553715	3	1327430	553715		0	2	1327430
4	Camp Working	Per month	58808	244910	4	979640	244910		0	4	979640
5	Road Making (Per Tenure)	Km	7400	16563	10	165630	16563		0	10	165630
	Sub Total A					3337750			0		3337750
B	GEOLOGICAL WORK										
1	Survey Party (Rate / 1 party)	Day	1100	5347	33	176301	5843		0	33	176300
2	Geological Party days (1 party)	Day	1341	7852	90	706680	7843		0	90	706680
3	Core Sampling Party days(1 parties)	Day	525	3939	90	354510	3939		0	90	354510
	Sub-Total B					1130190			0		1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (750+110)	2590	1165	3015850	2580		0	1165	3975600
	ii) for 2 radicals SO_3 & P_2O_5	Nos	100 (75+110)	972	105	102060	972		0	105	102060
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (750+110)	2580	50	129000	2580		0	50	129000
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	945 (750+110)	4662	135	648630	4662		0	135	648960
b	Physical Analysis										
3	Preparation of thin section	Nos	500	538	15	8070	538		0	15	8070
4	Petrographic Studies	Nos	229	1438	15	21540	1438		0	15	21540
5	Specific Gravity determination	Nos	32	188.5	25	4712.5	188.5		0	25	4712.5
	Sub-Total C					3854342.5			#REF!		3854342
D	Preservation of Core										
i)	Of Core boxes	Nos		3000	275	825000	3000		0	275	825000
ii)	Transportation of Core Boxes	Km	8.0	31.0	600	18600	31		0	600	18600
	Sub-Total D					843600					843600
	Total A+B+C+D					8965732			#REF!		8965732
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	120000			0	1	120000
F	PEER REVIEW OF DSR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
H	***Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to H					9095732					9095732
	GST 18%										1638832
	Grand Total with GST 18%										10734564
						Total					Says 107.35 Lakhs

Note:

1. Revised Rates of Proportional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M(... dated- 10/10/2014 and revised on periodic escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.
2. Prospecting rates have been considered as there is no rates for Limestone in Revised Rates of Proportional Work of MoM Schedule of Rates.
3. **Approved Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & 8th meeting of Executive Committee of KMET.
5. **** Rate has taken from Schedules of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 19N(SAG Code 998343)

B.P. Ratnam

B.P. Ratnam

ANN - EA/2/002/2.

Annexure-V

TABLE 1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-2

Sl. No.	Activities	Unit	MONTHS								Total
			1	2	3	4	5	6	7	8	
1	Camp Setting	Month	←	→							1 Month
2	Surface Drilling(DTH) (2 rig(600x2)+1 rig/Month)	m.		←	→						1050 m (in 21 Bhs)
3	Survey Party days (1 Party)	day		←	→						30
4	Geological Party days (1 Party)	day		←	→						90
5	Sampling Party days, (1 Parties)	day		←	→						90
6	Laboratory Studies	Nos.			←	→					1426 No
7	Camp Winding	Month				←	→				1 Month
8	Report Writing (including peer review)	Month					←	→			4 months

Ratnam

Rajat Ratnam

ANNEXURE – 6A/3/G3/1

ANNEXURE-II

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-1,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.93	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (116gs)	m	1714	6700	400	2712000	6700	0	0	400	2712000
2	Transportation	K/m	6.8	31	1250	38750	31	0	0	1250	38750
3	Accomodation	One time /Drill	161975	663715	1	663715	663715	0	0	1	663715
4	Camp Setting / Winding	Drill month	63603	244910	1	244910	244910	0	0	1	244910
5	Road Making (Flat Terrain)	K/m	7000	18563	5	92815	18563	0	0	5	92815
	Sub Total A					3752190			0		3752190
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1100	5940	60	356400	5940	0	0	60	356400
2	Geologist Party days (2 party)	day	1561	7602	60	702180	7602	0	0	60	702180
3	Core Sampling Party days(2 parties)	day	535	2609	60	252810	2609	0	0	60	252810
4	Bulk Sampling Party Days (1 Party)	day	2560	13401	30	402170					402170
	Sub-Total B					1708560			0		1708560
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (70x5+110)	2560	440	1135200	2560	0	0	440	1135200
	ii) for 2 radicals SO_3 & P_2O_5	Nos	150 (70+110)	972	40	38880	972	0	0	40	38880
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2560	20	51800	2560	0	0	20	51800
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	840 (70x11+110)	4992	55	274560	4992	0	0	55	274560
b	Physical Analysis										
1	Preparation of thin section	Nos	100	538	10	5380	538	0	0	10	5380
2	Petrographic Studies	Nos	225	1436	10	14360	1436	0	0	10	14360
3	Bulk Density	Nos	24	139	10	1390	188.5	0	0	10	1390
	Sub-Total C					1521170			0		1521170
D	Preservation of Core										
i)	GI Core boxes	Nos		2000	80	160000	2000	0	0	80	160000
ii	Transportation of Core Boxes	K/m	6.8	31.0	1250	38750	31	0	0	1250	38750
	Sub-Total D					198750					198750
	Total A+B+C+D					7180330			0		7180870
E	EXPLORATION REPORT 1.8% of (A+B+C+D) or 120000 whichever is				1	120000			0	1	120000
F	PEER REVIEW OF RGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					7310870					7310870
	GST 18%										1315957
	Grand Total : with GST 18%										8626827
						Total					Says 86.27 Lakhs
Note											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of vide Vide letter No. 37(1) (2016-M.I. dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.										
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.										

Mineral Exploration and evaluation 18% (SAC Code: 998342)

B.P. Rathore

ANN – 3A/3/43/7

Annexure 3

Table 6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSFTL-ST-3

Sl. No.	Activities	Unit	MONTHS	Total
1	Camp Setting	Month	In consecutive of 3A	1 month
2	Surface Drilling (1 rig)(2Crews on rig/Month)	no.		480 (3 Bits)
3	Survey Party days (1 Party)	day		60
4	Geologist Party days (1 Party)	day		60
5	Sampling Party days, (1 Party)	day		90
6	Bulk sampling Party (1Party)	Day		30
7	Laboratory Studies	Nos.		500 Nos
8	Camp Winding	Month		1 month
9	Report Writing (Including peer review)	Month		2 months

BP Ratan

ANNEXURE – SA/3/G2/1

Annexure-III

Table:8.3 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSBPTLST-3

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			*4.92	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling [2.5kg/cm2(STH)]	m		766	1252	959032	0	0	0	1252	959032
2	Transportation	Km	0.8	31	2500	77500	31	0	0	2500	77500
3	Accomodation	One time / Drill	165870	183715	3	551145	183715	0	0	3	551145
4	Camp Shifting	Drill Hole	50000	244918	4	979680	244918	0	0	4	979680
5	Road Making (Flat Terrain	Km	1800	18562	10	185630	18563	0	10	10	185630
	Sub Total A					2507100		0	0	1	2507100
B	GEOLOGICAL WORK										
1	Survey Party Boys [1 party]	day	1100	1840	45	82800	1840	0	45	45	82800
2	Geological Party Boys [1 party]	day	1561	7800	90	702180	7802	0	90	90	702180
3	Camp Sorting Party Boys [1 parties]	day	625	2809	90	252810	2809	0	90	90	252810
	Sub-Total B					1217790		0	0		1217790
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (765+115)	2560	1375	3520000	2560	0	0	1375	3520000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	165 (70+115)	972	125	121500	972	0	0	125	121500
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	430 (765+115)	2560	60	153600	2560	0	0	60	153600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	940 (765+115)	4602	150	690300	4602	0	0	150	690300
b	Physical Analysis										
3	Preparation of Pulverization	Nos	120	608	30	18780	626	0	0	30	18780
4	Petrographic Studies	Nos	204	1436	20	28720	1436	0	0	20	28720
5	Specific Gravity determination	Nos	32	188.6	20	3772	188.6	0	0	20	3772
	Sub-Total C					4915850		0	0		4915850
D	Preservation of Core										
a	Old Core boxes	Nos		2000	320	640000	2000	0	320	320	640000
b	Transportation of Core Boxes	Km	0.8	31.0	500	15500	31	0	500	500	15500
	Sub-Total D					655500		0	0		655500
	Total A+B+C+D					9295940		0	0		9295940
E	EXPLORATION REPORT – 1.% of (A+B+C+D) or 175000 whichever is more				0	175000		0	0	1	175000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
H	***Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to H					10181940					10181940
	GST 18%										1832749
	Grand Total : with GST 18%										12014771
						Total					Rs.120.14 Lakhs

Note:

1. Revised Rates of Transportation Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2008-M.I. dated: 03/07/2014 and hiked on annual escalation as per RBI Indices as on 31-03-2017 and the same has been work done for subsequent year.
2. Flow/Pipeline rates have been considered as there is no rates for transportation in Revised Rates of Promotional Work of MoM Govt. of India.
3. **Maynard Comm.fee Rates with actual escalation as per RBI rates as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & 8th meeting of Executive Committee of NMET.
5. ---- The rate for Down the drill is Dril per meter has been taken as 787 from GSI
6. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2016-19.

Mineral Exploration and evaluation NEC(SAC Code: 998362)

BP Raturi

BP Raturi

AHH-SA/3/52/2-

Annexure-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSGPTLST-2

Sl. No.	Activities	Unit	MONTHS										Total
			1	2	3	4	5	6	7	8	9	10	
1	Camp Setting	Month	←	→									1 Month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.		←	—	—	→						1250 m (in 25 Bits)
3	Survey Party days (1 Party)	day		←	—	—	→						90
4	Geologist Party days (1 Partie)	day		←	—	—	—	→					120
5	Sampling Party days, (1 Parties)	day		←	—	—	—	→					120
6	Laboratory Studies	Nos.			←	—	—	—	→				1840 Nos
7	Camp Winding	Month					←	→					1 months
8	Report Writing (Including peer review)	Month						←	—	—	→		4 months

B.P. Ratan

ANNEXURE – 56/G4/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-II.

SL No.	Item of Work	Unit	Rate	Financial Year (2018-19)			Financial Year (2019-20)			Total	
				Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
A	DRILLING		1.4.80	(Rs)		(Rs)			(Rs)		(Rs)
1	Surface Drilling (3 Rigs)	m	1714	6750	200	1350000	8793	0	0	200	1350000
2	Transporting	Km	5.8	31	1250	38750	31	0	0	1250	38750
3	Accomodation	One time (Set)	165028	663715	1	663715	663715	0	0	1	663715
4	Camp Setting	D.I.H moved	88688	244010	1	244010	244010	0	0	1	244010
5	Road Moving (Flat Terrain)	Km	7600	18503	4	74253	18503	0	0	4	74253
	Sub Total A					2377927			0		2377927
B	GEOLOGICAL WORK										
1	Survey Party/ Days (1 party)	Day	1100	5941	15	89000	5940	0	0	15	87500
2	Geology at Party days (1 party)	day	1541	7822	59	458123	7822	0	0	59	458123
3	Core Splitting Party days(1 party)	day	520	2571	63	161540	2564	0	0	63	163540
	Sub-Total B					724260			0		724760
C	LABORATORY STUDIES										
a	Chemical Analysis										
i	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos.	400 (78x5+110)	2530	220	557600	2561	0	0	220	557600
	ii) for 2 radicals SO_3 & P_2O_5	Nos.	188 (78+110)	972	20	18440	972	0	0	20	18440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos.	400 (78x5+110)	2580	10	25800	2580	0	0	10	25800
ii	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O , TiO)	Nos.	845 (75x11+110)	4992	25	124800	4992	0	0	25	124800
b	Physical Analysis										
1	Preparation of thin section	Nos	100	530	6	3692	535	0	0	6	3690
2	Petrographic Studies	Nos	225	1436	5	7180	1436	0	0	5	7180
3	Specific Gravity determination	Nos	33	188.5	10	1885	176.5	0	0	10	1884
	Sub-Total C					749395			0		749394
D	Preservation of Core										
i	Cost of Core boxes	Nos		2000	40	80000	2000	0	0	40	80000
ii	Transportation of Core Boxes	Km	5.8	31	1250	38750	31	0	0	1250	38750
	Sub-Total D					118750			0		118750
	Total A+B+C+D					3970332			0		3970332
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 50000 whichever is more				1	79401			0	1	79401
F	PEER REVIEW OF DSR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					4159433					4059433
	GST 18%										730680
	Grand Total (with GST 18%										4790151
Note:						Total					Says 47.90 Lakhs
1	Revised Rates of Prospecting Work done by MECL on behalf of Govt. of M.P. Vide letter No. 3710/2009/N.I. dated: 02/01/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.										
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Prospecting Work of Model Schedule of Rates.										
3	**Adjusted Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.										
4	*** As approved in the 13th meeting of Technical Committee & 7th meeting of Executive Committee of NMET.										
5	**** Rate has been from Schedule of Charges of diverse activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.										

Mineral Exploration and evaluation 18M/SAC Book: 998340)

B.B. Ratnam

AHN - SB/04/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-II

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter rig/Month)	m.		←	→				200.00
3	Survey Party days (1 Party)	day		←	→				15
4	Geologist Party days (1 Party)	day		←	→				60
5	Core Sampling Party days. (1 Party)	day		←	→				60
6	Laboratory Studies	Nos.			←	→			286 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←	—	—	→	4 months

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ANNEXURE – 58/1/62/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSI'TLST-4,

SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Est.Rate	Qty.	Amount	Est. Rate	Qty.	Amount	Qty	Amount
			1.4.80	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1714	5760	300	2034480	6163	0	0	300	2034000
2	Transportation	KM	68	20	1350	98750	21	0	0	1350	98700
3	Accomodation	One time (Rs)	185305	663715	1	663715	663715	0	0	1	663715
4	Casing Setting / Welding	Qty/ mc(3)	85656	344910	1	344910	344910	0	0	1	344910
5	Road Making (For Tunnel)	Km	7500	18563	5	92815	18563	0	0	5	92810
	Sub Total A					3074183		0			3074190
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1181	5840	57	332880	5840	0	0	57	332900
2	Geologist Party days (2 party)	day	1541	7800	90	702180	7822	0	0	90	702180
3	Core Sampling Party days(2 parties)	day	925	3809	90	342810	5693	0	0	90	342810
4	Bulk Sampling Party Days (1 Party)	day	2568	13438	30	403170		0			403176
	Sub-Total B					1650180		0			1650190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	460 (760+110)	2683	330	861400	3160	0	0	330	821400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	190 (78+110)	673	30	20190	671	0	0	30	23160
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	420 (760+110)	2560	15	38700	2581	0	0	15	38760
2	Composite Samples										
	8 for 12 radicals (CaO, K_2O, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O, TiO_2	Nos	945 (760+110)	4067	40	162680	4022	1	43		189660
b	Physical Analysis										
1	Preparation of thin section	Nos	100	536	10	5360	539	0	10		5390
2	Petrographic Studies	Nos	994	1430	10	14300	1436	0	10		14360
3	Bulk Density	Nos	24	133	10	1330	138.5	0	10		1390
	Sub-Total C					1146070		0			1146070
D	Preservation of Core										
i)	Of Core boxes	Nos.		2330	60	139800	2000	0	60		120000
ii)	Transportation of Core Boxes	Km	5.8	31.0	1250	38750	31	0	1250		38750
	Sub-Total D					178550		0			158750
	Total (A+B+C+D)					6033171		0			6033171
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	120000		0	1		120000
F	PEER REVIEW OF EGR (Lump Sum)	Nos		10000	1	10000	10000	0	1		90000
	TOTAL A to F					6153171					6153171
	GST 18%										1107571
	Grand Total with GST 18%										7260741
Note						Total					Says 72.61 Lakhs
1	Revised Rates of Prevailing Work done by MECL on behalf of Govt. of Pd.& Vide letter No. 3(1)-2006-M.I. dated- 02/01/2014 and Based on WPI/ CPI inclusive as on 31-03-2017 and Diesel same has been considered for subsequent year.										
2	Prephproces rates have been considered as there is no rates for Limestone in Revised Rates of Prephysical Work of Model Schedule of Rates										

B.P. Ratnam

B.P. Ratnam

ANN – 5e/1/43/2.

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-4

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				300 (6 Bhs)
3	Survey Party days (1 Party)	day		←	→				50
4	Geologist Party days (1 Party)	day		←	→	→			90
5	Sampling Party days, (1 Party)	day		←	→	→			90
6	Bulk Density Party days, (1 Party)	day		←	→				30
7	Laboratory Studies	Nos.		←	→	→			445 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←	→	→	3 months

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ANNEXURE – 5B/1/G2/1

Table 9.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSP TI ST-4

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc. Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.80	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		752	550	713600	0	0	0	950	713600
2	Transportation	Km	8.0	31	2500	77500	31	0	0	2500	77500
3	Accomodation	One time / Drill	185555	683715	2	1367430	683715	0	0	2	1367430
4	Camp Writing	Drill (cont'n)	65516	244913	4	979648	244912	0	0	4	979648
5	Road Making (Flat Terrain)	Km	7500	19363	10	193630	19363	0	0	10	193630
	Sub Total A					3332360		0			3332360
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1181	5840	30	175200	5845	0	0	30	175200
2	Geologist Party Days (1 party)	day	1541	7602	90	702180	7603	0	0	90	702180
3	Core Sampling Party days(1 person)	day	541	2809	90	252810	2809	0	0	90	252810
	Sub-Total B					1130190		0			1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 [264+110]	2680	950	2411000	2680	0	0	900	2411000
	ii) for 3 radicals SO_3 & P_2O_5	Nos	185 [72+110]	972	95	92340	972	0	0	95	92340
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 [264+110]	2680	30	129600	2680	0	0	60	129600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2)	Nos	345 [Rs.115]	4992	120	599040	4992	0	0	120	599040
b	Physical Analysis										
1	Preparation of thin section	Nos	120	684	10	5380	538	0	0	10	5380
2	Petrographic Studies	Nos	228	1436	10	14360	1436	0	0	10	14360
3	Specific Gravity determination	Nos	33	169.6	25	4712.5	169.6	0	0	25	4712.5
	Sub-Total C					3255032.5		0			3255032
D	Preservation of Core										
i	Oil Core Boxes	Nos		2000	300	600000	2000	0	0	300	600000
ii	Transportation of Core Boxes	Km	8.0	31.0	650	20150	31	0	0	650	20150
	Sub-Total D					620150					620150
	Total A+B+C+D					8338732		0			8338732
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) of 120300 whichever is more				0	125438		0		1	125438
F	PEER REVIEW OF EGR (Lump Sum)	Nos		10000	1	10000	10000	0		1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Nos	99997	457948.2	1	457948.2	457948.2	0		1	457948
2	Base line Data Collection	(50 km radius area)	161273	684857.4	1	684857.3952	684857.4	0		1	684857
3	Chemical Analysis	Nos	3574007	604478	1	604478	604478	0		1	604478
4	Report Writing	Nos	50000	50000	1	50000	50000	0		1	50000
	Sub Total G					1907284		0			1907284
H	**Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to H					10172504					10172504
	GST 18%										1831051
	Grand Total ; with GST 18%										12003649
						Total					Say 120.03 Lakhs

Note:

1. Revised Rates of FY Indicate Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2000-MI, dated- 02/07/2014 and based on actual escalation as per RBI Index as on 31.05.2017 and the same has been considered for subsequent year.
2. Pending Item rates have been considered as there is no new WPI available in Revised Rates of Prescribed Work of MoM schedule of Rates.
3. **Delayed Committee Rates with simple escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 10th meeting of Technical Committee & 9th meeting of Executive Committee of MME.
5.
6. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation (MS/SAC Code: 993341)

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B.P. Ratnam

AMH- 56/1/M2/2

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-4

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19							Total
			1	2	3	4	5	6	7	
1	Camp Setting	Month	←	→						1 Month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.		←	→					950 m (In 19 BHs)
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Partie)	day		←	→					90
5	Sampling Party days, (1 Parties)	day		←	→					90
6	Laboratory Studies	Nos.			←	→				1260 No
7	Camp Winding	Month				←	→			1 Month
8	Environmental Studies			←					→	6 months
9	Report Writing (including peer review)	Month					←		→	3 months

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ANNEXURE – 58/2/M3/1

ANNEXURE-III

Table-3.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-6.

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Est. Rate	Qty.	Amount	Est. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (3 Rigs)	m	1214	3165	350	1085500	6152		0	350	1085500
2	Transportation	Km	8.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time (Drill	100925	663715	1	663715	663715		0	1	663715
4	Camp fabbing / Winding	Drill month	69000	244013	1	244013	244013		0	1	244013
5	Road Making (Fix Terms)	Km	7000	13563	5	67815	13563		0	5	67815
	Sub Total A					2725180			0		2725180
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1150	5640	30	175200	5640		0	30	175200
2	Geolog al Party days (2 party)	day	1041	7602	60	456120	7602		0	60	456120
3	Core Sampling Party days(2 parties)	day	526	2809	60	168540	2809		0	60	168540
4	Bore Sampling Party Days (1 Party)	day	3668	13439	30	403170					403170
	Sub-Total B					1219830			0		1219830
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary Cores Samples										
	i) Acid radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	493 (70x5+110)	2588	275	711500	2588		0	275	711500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	166 (56+110)	972	25	24300	972		0	25	24300
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2588	15	38700	2588		0	15	38700
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	946 (76x11+110)	4932	35	172620	4932		0	35	172620
b	Physical Analysis										
1	Preparation of thin section	Nos	100	538	10	5380	538		0	10	5380
2	Petrographic Studies	Nos	224	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	133	10	1330	133.3		0	10	1330
	Sub-Total C					993350			0		993350
D	Preservation of Core										
i	Cl Core boxes	Nos		2000	50	100000	2000		0	50	100000
ii	Transportation of Core Boxes	Km	8.8	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					138750					138750
	Total A+B+C+D					3857330			0		3857330
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DSR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					4187330					4187330
	GST 18%										753719
	Grand Total) with GST 18%										4941049
						Total					Say 49.41 Lakhs

Note:

1. Revised Rates of Promotional Work done by NEDI on behalf of Govt. of India Vide letter No. 3(10)/2006-M(I) dated 02/07/2014 and based on Actual escalation as per RBI Indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Prospecting rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.

Mineral Exploration and Evaluation n.e.s.(SAC Code: 998343)

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Ann- 60/2/ex3/2.

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-6

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				250 (5 Bhs)
3	Survey Party days (1 Party)	day		←	→				30
4	Geologist Party days (1 Party)	day		←	→				60
5	Sampling Party days, (1 Party)	day		←	→				60
6	Bulk samplingParty days, (1	day		←	→				30
7	Laboratory Studies	Nos.		←		→			380 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←		→	3 months

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ANNEXURE – BB/2/02/1

ANNEXURE-III

Table:6.1 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSFTLST-5

Sr. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Exc. Rate	Qty.	Amount	Exc. Rate	Qty.	Amount	Qty	Amount
			1.4.20	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		700	550	385000	0		0	550	385000
2	Transportation	Km	0.5	31	2500	77500	31		0	2500	77500
3	Accomodation	One Way / Dia	185625	660713	2	1321426	663715		0	2	1321426
4	Camp Yard-12	6+5 month	69638	344910	4	379640	344913		0	4	379640
5	Road Making (Flat terrain)	Km	7000	18563	10	185630	18911		0	10	188630
	Sub Total A					3307700			0		3307700
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1160	5842	25	146050	5843		0	25	146050
2	Geological Party days (1 party)	day	1041	2823	60	203160	2823		0	60	203160
3	Core Sampling Party days (1 parties)	day	Km	3939	90	354510	3924		0	90	353040
	Sub-Total B					1103660			0		1102850
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Return + Check Samples										
	i) for 10 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	433 (76x5+113)	2560	850	2183000	2560		0	850	2183000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	188 (70+118)	673	65	43745	672		0	65	43680
	iii) External Check Samples for 5 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (95x5+110)	2582	40	103280	2582		0	40	103280
2	Composite Samples										
	i) for 13 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	545 (76x5+145)	4092	155	634260	4092		0	155	634260
b	Physical Analysis										
3	Preparation of thin section	Nos	500	558	10	5580	558		0	10	5580
4	Petrographic Study	Nos	220	1436	10	14360	1436		0	10	14360
5	Specific Gravity (density) (SG)	Nos	30	1885	25	47125	1885		0	25	47125
	Sub-Total C					2927490			0		2927430
D	Preservation of Core										
2	(i) Core boxes	Nos		2022	225	455030	2000		0	225	450000
	(ii) Transportation of Core Boxes	Km	0.5	31.0	650	20150	31		0	650	20150
	Sub-Total D					475180					470150
	Total A+B+C+D					7706215			0		7709277
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF EGR (Lump Sum)	No		10000	1	10000	10000		0	1	10000
H	***Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to H					7836215					7839877
	GST 18%										1411578
	Grand Total (with GST 18%										9248800
						10kg					Says 92.47 Lakhs

NOTE

1. Revised Rates of Provisional Work done by MECL on behalf of Govt. of India Vide letter No. 37[8 (0108-MEL-02/00-02/2014-DIR dated on actual escalation as per RBI indices as on 31/03/2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Provisional Work of MoM Schedule of Rates
3. ***Hypsual Drilling Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & 5th meeting of Executive Committee of AMET.
5. **** Rate has taken from Schedule of Charges of drilling activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and Evaluation 1918(SAC Code: 998439)

BP Ratnri

BP Ratnri

ANN- 66/2/03/E

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-5

Sl. No.	Activities	Unit	MONTHS								Total
			1	2	3	4	5		6	7	
1	Camp Setting	Month	← →								1 Month
2	Surface Drilling(DTH) (2 rig)(600m/1 rig/Month)	m.		←	→						850 m (in 17 BHs)
3	Survey Party days (1 Party)	day		← →							25
4	Geologist Party days (1 Partie)	day		←	→						90
5	Sampling Party days, (1 Parties)	day		←	→						90
6	Laboratory Studies	Nos.			←	→					1125 No
7	Camp Winding	Month				← →					1 Month
8	Environmental Studies			←				→			5 months
9	Report Writing (including peer review)	Month					←		→		4 months

B.P. Rautray

ANNEXURE – 5c/64/1

ANNEXURE-III

Table-6.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-III

Sr. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc./Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.16	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (NQ Size)	m	1714	6797	200	1359330	6797		0	200	1359000
2	Transportation	Km	5.5	31	1250	38750	31		0	1250	38750
3	Accommodation	One time (Drill	185625	883715	1	883715	883715		0	1	883715
4	Camp Setting	One month	60630	244910	1	244910	244910		0	1	244910
5	Road Making (Flat Terrain)	Km	7800	18563	4	74252	18563		0	4	74252
	Sub-Total A					3377627			0		3377627
B	GEOLOGICAL WORK										
1	Survey Party (Geol. 1 Party)	day	1180	3540	12	42480	3540		0	12	84400
2	Geologist Party (Asst. 1 Party)	day	1541	7527	52	488130	7527		0	52	488150
3	Core Sampling Party (Helper 1 Party)	day	529	2929	62	168418	2929		0	62	181598
	Sub-Total B					699000			0		754148
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary / Quick Services										
	(i) for 9 radicals (CaO, MgO, SiO2, Al2O3, Fe2O3 & LOI)	Nos	490 (70x5+112)	2580	220	567600	2580		0	220	567600
	(ii) for 2 radicals (SO_3 & P_2O_5)	Nos	185 (73+112)	972	20	19440	972		0	20	19440
	(iii) External Check Samples for 6 radicals (CaO, MgO, SiO2, Al2O3, Fe2O3 & LOI)	Nos	490 (70x5+112)	2580	10	25800	2580		0	10	25800
2	Composite Samples										
	(i) for 12 radicals (CaO, MgO, SiO2, Al2O3, Fe2O3, LOI, SO3, P2O5, MnO2, K2O, Na2O, TiO2)	Nos	848 (70x11+112)	4963	25	124075	4963		0	25	124600
b	Physical Analysis										
1	Preparation of thin section	Nos	105	535	5	2680	535		0	5	2680
2	Petrographic Studies	Nos	229	1436	5	7180	1436		0	5	7180
3	Specific Gravity determination	Nos	32	188.5	12	1995	188.5		0	12	2262
	Sub-Total C					749295			0		748399
D	Preservation of Core										
	(i) Core boxes	Nos		2000	40	80000	2000		0	40	80000
	(ii) Transportation of Core Boxes	Km	5.5	31	1250	38750	31		0	1250	38750
	Sub-Total D					118750			0		118750
	Total Amt(A+B+C+D)					3944832			0		3944832
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 80000 whichever is more				1	78817			0	1	78817
F	PEER REVIEW OF DGR (Lumpsum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL : A to F					4029649					4029649
	GST 18%										725337
	Grand Total : with GST 18%										4754986
						Total					Says 47.55 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 6/1(i) 02006-M1 dated- 03/07/2014 and Escalation actual escalation as per RB indices as on 31-03-2017 and the same has been considered for subsequent year
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates
3. Regional Committee Rates with actual escalation as per RB index as on 31.3.2017 and the same for subsequent year
4. As approved in the 12th meeting of Technical Committee & 7th meeting of Executive Committe of NMET
5. Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 19%(SAC Code: 998431)

Bartwal

B.P. Ratwal

ANN – SC/41/2.

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-III

SL No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				200.00
3	Survey Party days (1 Party)	day		←	→				10
4	Geologist Party days (1 Party)	day		←	→				60
5	Core Sampling Party days, (1 Party)	day		←	→				50
6	Laboratory Studies	Nos.			←	→			295 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←			→	4 months

ANNEXURE – 5c/1/h2/1

ANNEXURE-III

Table 6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSEPTLET-A.

SL. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc. Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rigs)	m	1774	5780	356	2534000	5780	0	0	356	2534000
2	Transportation	Km	8.8	33	1356	36750	33	0	0	1356	36750
3	Accomodation	One time / Term	185401	662715	1	662715	662715	0	0	1	662715
4	Camp Setting / Winding	One time/ month	68608	244910	1	244910	244910	0	0	1	244910
5	Road Making (Flat Terrain)	Rm	7800	18562	5	92810	18562	0	0	5	92810
	Sub Total A					3974185			0		3974185
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5960	45	268200	5960	0	0	45	268200
2	Geologist Party Days (2 party)	day	1641	7802	90	702180	7802	0	0	90	702180
3	Core Sampling Party days(2 parties)	day	525	2809	90	252810	2809	0	0	90	252810
4	Bulk Sampling Party Days (1 Party)	day	2068	13439	30	403170			0		403170
	Sub-Total B					1626360			0		1626360
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2580	330	851400	2580	0	0	330	851400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	186 (76+110)	872	30	29160	972	0	0	30	29160
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2580	15	38700	2580	0	0	15	38700
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	945 (76x11+110)	4992	40	199680	4992	0	0	40	199680
b	Physical Analysis										
1	Preparation of thin section	Nos	198	538	10	5380	538	0	0	10	5380
2	Petrographic Studies	Nos	228	1436	10	14360	1436	0	0	10	14360
3	Bulk Density	Nos	24	139	10	1390	139.0	0	0	10	1390
	Sub-Total C					1140070			0		1140070
D	Preservation of Core										
a	Of Core boxes	Nos		2000	60	120000	2000	0	0	60	120000
e	Transportation of Core Boxes	Km	8.8	31.0	1356	38750	31	0	0	1356	38750
	Sub-Total D					158750			0		158750
	Total A+B+C+D					6903975			0		6903975
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					6123975			0		6123975
	GST 18%										1102316
	Grand Total : with GST 18%										7226294
						Total					Says 72.26 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M.I dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.

Mineral Exploration and evaluation 18%(SAC Code 998343)

Ratan

B.P. Ratan

Ann – EC/1/GS/2

ANNEXURE-II

Table:8.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-6

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				300 (6 Bhs)
3	Survey Party days (1 Party)	day		←	→				45
4	Geologist Party days (1 Party)	day		←	→				90
5	Sampling Party days, (1 Party)	day		←	→				90
6	Bulk sampling part daye (1party)	day		←	→				30
7	Laboratory Studies	Nos.		←	→				445 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←	→		3 months

Bhartiya
Bhartiya

ANNEXURE – 5e/1/62/1

ANNEXURE-III

Table-5.2: COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-4

Sl. No.	Item of Work	Unit	Rates	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.20	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (Rotary/DTH)	M		760	950	712500	0		0	950	712500
2	Transportation	Km	0.5	31	2500	77500	31		0	2500	77500
3	Mobilization	One time (Unit)	165676	663715	2	1327430	663715		0	2	1327430
4	Camp Welding	Unit/ month	59910	244910	4	979640	244910		0	4	979640
5	Road making (Kutcha)	Km	7000	16903	10	169030	16903		0	10	169030
	Sub Total A					3267700			0		3267700
B	GEOLOGICAL WORK										
1	Surface Rock Sampling	Nos	1160	3540	50	177000	3540		0	50	177000
2	Geological Mapping	Sq. Km	1541	7902	90	711180	7902		0	90	711180
3	Core Samples Preparation and Testing	Nos	25	2829	90	254610	2829		0	90	254610
	Sub-Total B					1142790			0		1142790
C	LABORATORY STUDIES										
a	Chemical Analysis										
	Design + Data Services										
	i. for 6 Nos. CaO, MgO, SiO2, Al2O3, P2O5 & LOI	Nos	450 (Slab-110)	3380	950	3451000	3580		0	950	3451000
	ii. for 2 Nos. S & P2O5	Nos	185 (Slab-110)	972	85	82340	972		0	85	82340
	iii. External Check Samples for 6 Nos.CaO, MgO, SiO2, Al2O3, P2O5 & LOI	Nos	450 (Slab-110)	3580	50	129000	3580		0	50	129000
b	Composite Samples										
	i. for 12 Nos. CaO, MgO, SiO2, Al2O3, P2O5, LOI, SO3, K2O, MnO, Na2O, TiO2	Nos	645 (Slab-110)	4960	120	595040	4960		0	120	595040
c	Physical Analysis										
1	Preparation of thin section	Nos	120	338	10	3380	338		0	10	3380
2	Petrographic Studies	Nos	250	1438	10	14380	1438		0	10	14380
3	Specific Gravity determination	Nos	20	188.5	20	3770	188.5		0	20	3770
	Sub-Total C					2294890			0		3294890
D	Preservation of Core										
1	Core boxes	Nos		2000	250	500000	2000		0	250	500000
2	Transportation of Core Boxes	Km	0.5	31.0	650	20150	31		0	650	20150
	Sub-Total D					520150			0		520150
	Total A+B+C+D					8227530			0		8227530
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 125000 whichever is more				1	126428			0	1	126428
F	PEER REVIEW OF DPR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	35927	457948.2	1	457948.1998	457948.2		0	1	457948
2	Base line Data Collection	ITE and various areas	181373	694857.4	1	694857.3983	694857.4		0	1	694857
3	Chemical Analysis	Nos	267407	604478	1	604478	604478		0	1	604478
4	Report Writing	Nos	50000	50000	1	50000	50000		0	1	50000
	Sub Total E					1807284			0		1807284
F	Preparation of Proposal (Lump Sum)					0					0
	TOTAL A to F					10171642					10171642
	GST 18%										1830895
	Grand Total with GST 18%										12002537
Note:						Total					Rays 120.03 Lakhs

1. Planned Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 27(1) 0306-M.I. dated: 02/07/2014 and based on actual escalation as per RBI notices as on 31-03-2017 and the same has been considered for subsequent year.
2. Provisional rate have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. Provisional Commission Rates with actual escalation as per RBI notice as on 31.3.2017 and the same for subsequent year.
4. As approved in the 12th meeting of Technical Committee & 9th meeting of Executive Committee of NMET.
5. Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code: 998342)

B.P. Ratan

ANN - SC/1/M2/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-6

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19							Total
			1	2	3	4	5	6	7	
1	Camp Setting	Month	← →							1 Month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.		←	—	→				950 m (in 19 BHs)
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Partie)	day		←	—	—	→			90
5	Sampling Party days. (1 Parties)	day		←	—	—	→			90
6	Laboratory Studies	Nos.			←	—	—	—	→	1245 No
7	Camp Winding	Month				←	→			1 Month
8	Environmental Studies			←	—	—	—	—	→	6 months
9	Report Writing (including peer review)	Month					←	—	→	3 months

Rastra
BP - Rastra

ANNEXURE – 5c/2/23/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-7,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.8.00	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rigs)	m	1714	6760	293	1980000	676		0	200	1980000
2	Transportation	Km	8.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Dist	183523	683710	1	683710	683710		0	1	683710
4	Camp Setting / Working	One month	58606	244910	1	244910	244910		0	1	244910
5	Road Making (Flat Terain)	Rft	7500	10563	8	82810	10563		0	8	82810
	Sub Total A					3733180			0		3733180
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5940	30	175200	5940		0	30	175200
2	Geologist Party days (2 party)	day	1541	7900	60	468120	7900		0	60	468120
3	Core Sampling Party days(2 parties)	day	625	3000	60	185340	3000		0	60	185340
4	Bulk Sampling Party Days (1 Party)	day	2566	13439	20	268780					268780
	Sub-Total B					1098440			0		1098440
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (78x5+110)	2580	275	709500	2580		0	275	709500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	188 (78+110)	972	25	24300	972		0	25	24300
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (78x5+110)	2580	15	38700	2580		0	15	38700
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	848 (78x11+110)	4993	35	174720	4993		0	35	174720
b	Physical Analysis										
1	Preparation of thin section	Nos	100	838	10	8380	838		0	10	8380
2	Petrographical Studies	Nos	338	1439	10	14390	1439		0	10	14390
3	Bulk Density	Nos	24	139	10	1390	139.0		0	10	1390
	Sub-Total C					868340			0		868340
D	Preservation of Core										
i)	Of Core boxes	Nos		2000	50	100000	2000		0	50	100000
ii)	Transportation of Core Boxes	Km	8.8	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					138750					138750
	Total A+B+C+D					4933930			0		4933930
E	EXPLORATION REPORT - 1.6% of (A+B+C+D) or 120000 whichever is more				1	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					5063930					5063930
	GST 18%										911507
	Grand Total (with GST 18%										5963437
						Total					Says 59.63 Lakhs
Note:											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M.I. dated- 03/07/2014 and based on actual expenditure as per RBI notices as on 31-03-2017 and the same has been considered for subsequent year.										
2	Precious/semi precious rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.										

Mineral Exploration and evaluation 18%(SAC Code: 998342)

Baton

BP. Baton

ANN – SC/1/RCS/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-7

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				250 (5 Bhs)
3	Survey Party days (1 Party)	day		←	→				30
4	Geologist Party days (1 Party)	day		←	→				60
5	Sampling Party days, (1 Party)	day		←	→				60
6	Bulk samplingparty (1Party)			←	→				20
7	Laboratory Studies	Nos.		←	→	→			380 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←	→	→	3 months

ANNEXURE – 5C/2/62/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSP/LST-7

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Exc.Rate	Qty.	Amount	Exc. Rate	Qty.	Amount	Qty	Amount
			1.4.16	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (ST/H)	m		750	800	600000	0		0	800	600000
2	Transportation	Rm	8.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time / Drill	185923	663715	3	1327430	663715		0	3	1327430
4	Camp Winding	Drill month	69939	244910	4	979640	244910		0	4	979640
5	Road Making (7 Nos.) (crawl)	Rm	7000	18883	10	188830	18883		0	10	188830
	Sub Total A					3173000			0		3173000
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5940	20	118800	5940		0	20	118800
2	Geolog.cal Party days (1 party)	day	1547	7802	65	702180	7802		0	90	702180
3	Core Sampling Party days(1 parties)	day	535	2809	90	252810	2809		0	90	252810
	Sub-Total B					1073790			0		1073790
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Rejects + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (15x5+115)	2581	880	2270480	2581		0	880	2270480
	ii) for 2 radicals SO_3 & P_2O_5	Nos	180 (70+110)	972	80	77760	972		0	80	77760
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (15x5+115)	2580	40	103200	2580		0	40	103200
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 ,LOI, SO_3, P_2O_5 ,MnO, , K_2O, Na_2O, TiO_2	Nos	940 (15x11+115)	4932	100	493200	4932		0	100	493200
b	Physical Analysis										
1	Preparation of thin section	Nos	300	538	10	5380	538		0	10	5380
2	Petrographic Studies	Nos	229	1436	10	14360	1436		0	10	14360
3	Specific Gravity determination	Nos	32	168.5	25	4712.5	168.5		0	25	4712.5
	Sub-Total C					2978612.5			0		2978613
D	Preservation of Core										
i)	CI Core boxes	Nos		3000	110	330000	3000		0	110	330000
ii)	Transportation of Core Boxes	Rm	8.8	31.0	650	20150	31		0	650	20150
	Sub-Total D					340150					340150
	Total A+B+C+D					7557153			0		7557153
E	EXPLORATION REPORT -1.6% of (A+B+C+D) or 120000 whichever is more				1	120000			0	1	120000
F	PEER REVIEW OF DGR Exmp Sum	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					7667153					7667153
	GST 18%										1380087
	Grand Total : with GST 18%										9047240
						Total					Says 90.71 Lakhs

1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) (2008-M) dated- 02/07/2014 and hiked on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2	Prevailing rate have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates
3	**Tripartad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & III meeting of Executive Committe of NMET
5	***** Rate has taken from Schedule of Charges of diferen activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%|SAC Code: 998430|

Ratan
Rat. Ratan

ANN – 5c/2/422/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-7

Sl. No.	Activities	Unit	MONTHS								Total
			1	2	3	4	5	6	7	8	
1	Camp Setting	Month	←	→							1 Month
2	Surface Drilling(DTH) (2 rig)(500m/Rig/Month)	m.		←	→						800 m (in 16 BHs)
3	Survey Party days (1 Party)	day		←	→						60
4	Geologist Party days (1 Parties)	day		←	→						90
5	Sampling Party days, (1 Parties)	day		←	→						90
6	Laboratory Studies	Nos.			←	→					1100 Nos
7	Camp Winding	Month				←	→				1 Month
8	Environmental Studies			←					→		5 months
9	Report Writing (Including peer review)	Month					←			→	4 months

Patra

BSP Patra

ANNEXURE – 5D/64/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-IV.

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			T.4.80	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1714	8790	200	1358000	8790		0	200	1358000
2	Transportation	Km	8.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Unit	189925	963715	1	963715	963715		0	1	963715
4	Camp Setting	One/ month	68638	244910	1	244910	244910		0	1	244910
5	Road Making (For Terrain)	Km	7900	18563	4	74252	18563		0	4	74252
	Sub Total A					2377627			0		2377627
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5445	10	58450	5445		0	72	58450
2	Geologist Party days (1 party)	day	1541	7507	30	224060	7803		0	30	224060
3	Core Sampling Party days(1 party)	day	635	2809	30	84270	2809		0	30	84270
	Sub-Total B					376730			0		376730
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	495 (70x5+110)	2560	220	567500	2560		0	220	567500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	185 (75+110)	972	20	19440	972		0	20	19440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	495 (70x5+110)	2560	10	25600	2560		0	10	25600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	945 (70x11+110)	4962	25	124050	4962		0	25	124050
b	Physical Analysis										
1	Preparation of thin section	Nos	100	538	5	2690	538		0	5	2690
2	Petrographic Studies	Nos	328	1436	5	7180	1436		0	5	7180
3	Specific Gravity determination	Nos	20	188.6	10	1886	188.6		0	10	1886
	Sub-Total C					748395			0		748395
D	Preservation of Core										
i)	Oil Core boxes	Nos		2000	40	80000	2000		0	40	80000
ii)	Transportation of Core Boxes	Km	8.8	31	1250	38750	31		0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					3623502			0		3623502
E	EXPLORATION RSPORT - 2% of (A+B+C+D) or 50000 whichever is more				0	72450			0	1	72450
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					3704952					3704952
	GST 18%										666891
	Grand Total : with GST 18%										4371843
						Total					Says 43.72 Lakhs

Notes

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) (2)/09-MI dated 03/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of Model Schedule of Rates.
3. **Mineral Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year
4. *** As approved in the 13th meeting of Technical Committee & 9th meeting of Executive Committe of MMET
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 18%(SAC Code: 998349)

Batuni

B. P. Ratuni

ANN- 5 b/64/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-IV

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				200.00
3	Survey Party days (1 Party)	day		←	→				10
4	Geologist Party days (1 Party)	day		←	→				30
5	Core Sampling Party days, (1 Party)	day		←	→				30
6	Laboratory Studies	Nos.			←	→			295 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←	→			4 months

Return

BP Return

ANNEXURE – SD/1/63/1

ANNEXURE-II

Table-8.3 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TEHSIL-ET-6.

Sl. No.	Item of Work	Unit	Base	Financial Year (2015-16)			Financial Year (2019-20)			Total	
			Rate	Esc Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			T.A.M	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1114	6192	99	2273400	8736		0	260	2273400
2	Transportation	K/m	3.8	31	1250	38750	31		0	1250	38750
3	Accomodation	Fine Sha / Cent	135025	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	Each/ Trip/P	53858	344910	1	344910	344910		0	1	344910
5	Road Making (Flat Terrain)	K/m	7972	14967	5	74835	14967		0	5	92815
	Sub Total A					3412160			0		3412160
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1190	5940	40	237600	5940		0	40	237600
2	Geological Party days (3 party)	day	1547	7920	90	712080	7920		0	90	712080
3	Core Sampling Party days(2 parties)	day	525	2559	90	230310	2559		0	90	230310
	Rock Sampling Party Days (1 Party)	day	2555	13439	20	268780					268780
	Sub-Total B					1436870			0		1436870
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (75+5+110)	2540	365	927100	2540		0	365	927100
	ii) for 2 radicals SO_3 & P_2O_5	Nos	150 (75+110)	972	40	38880	972		0	40	38880
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, & LOI)	Nos	450 (75+5+110)	2540	20	51000	2540		0	20	51000
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, NaO TiO_2	Nos	540 (75+11+110)	4992	50	249600	4992		0	50	249600
b	Physical Analysis										
1	Preparation of thin section	Nos	170	536	20	10720	536		0	20	10720
2	Petrographic Studies	Nos	225	1439	20	28720	1439		0	20	28720
3	Bulk Density	Nos	24	126	10	1260	126.5		0	10	1260
	Sub-Total C					1274080			0		1274080
D	Preservation of Core										
i)	Fat Core boxes	Nos		2772	70	140000	2000		0	70	140000
ii)	Transportation of Core Boxes	K/m	8.6	31.67	1250	39750	31		0	1250	39750
	Sub-Total D					179750			0		179750
	Total A+B+C+D					6452760			0		6452760
E	EXPLORATION REPORT 1.8% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					6582760					6582760
	GST 18%										1184897
	Grand Total with GST 18%										7767657
						Total					Says 77.68 Lakhs
Note											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 27/(0006-M) dated 03/07/2014 and based on actual escalation as per RBI Indices as on 31-03-2017 and the same has been considered for subsequent year										
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates										

Mineral Exploration and evaluation 18%(SAC Code: 9983(6))

Raturi

B.P. Raturi

ANN — ED/1/G3/2

ANNEXURE-I

Table:5.1 TIME SCHEDULE FOR G-3 EXPLORATION for T88PTLST-6

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In combination of G4						1 month
2	Surface Drilling (1 rig)(2Structure /rig)(Nos/day)	m.							350 (6 Bhs)
3	Survey Party days (1 Party)	day							45
4	Geological Party days (1 Party)	day							90
5	Sampling Party days, (1 Party)	day							30
6	Bulk Density party (1party)	day							20
7	Laboratory Studies	Nos.							540 No
8	Camp Winding	Month							1 month
9	Report Writing (Including peer review)	Month							3 months

B. Ratnam

B. P. Ratnam

ANNEXURE- SD/1/M2/1

ANNEXURE-VI

Table:6.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-8

Sl. No.	Item of Work	Unit	Rate	Financial Year (2018-19)			Financial Year (2019-20)			Total	
				Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			14.35	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		450	1100	535000	0		0	1100	535000
2	Transportation	Km	8.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time /Unit	189023	893715	2	1327430	893715		0	2	1327430
4	Core Winning	Drill feet	53936	244710	2	489420	244710		0	2	489420
5	Road Making (Per Torm)	Km	7900	9300	60	558000	13593		0	60	558000
	Sub Total A					3847900			0		3847900
B	GEOLOGICAL WORK										
1	Survey Party Days (1 parties)	day	1182	5841	30	175200	5841		0	30	175200
2	Geological Party days (1 parties)	day	1041	7802	90	702180	7802		0	90	702180
3	Core Sampling Party days(1 parties)	day	521	2578	90	232010	2578		0	90	232010
	Sub-Total B					1130190			0		1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	492 (78x5+110)	2580	1100	2838000	2580		0	1100	2838000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	183 (78+110)	673	110	109520	673		0	110	109520
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78x5+110)	2580	55	141900	2580		0	55	141900
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_3, K_2O, Na_2O, TiO_2	Nos	845 (78x11+110)	4992	140	699300	4992		0	140	699300
b	Physical Analysis										
3	Preparation of thin Section	Nos	100	538	15	8355	538		0	15	8355
4	Petrographic Studies	Nos	220	1436	10	14360	1436		0	10	14360
5	Specific Gravity (wet+ dry)	Nos	37	188.6	25	4715.5	188.5		0	25	4715.5
	Sub-Total C					3810455.5			0		3810455
D	Preservation of Core										
i)	GI Core boxes	Nos		2000	220	440000	2000		0	220	440000
ii)	Transportation of Core Boxes	Km	8.8	31.0	500	15500	31		0	500	15500
	Sub-Total D					455500					455500
	Total A+B+C+D					9043743			0		9043743
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	135656			0	1	135656
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	99627	457848.2	1	457848.2000	457848.2		0	1	457848
2	Base line Data Collection	10 km radius area)	191273	834857.4	1	834857.3983	834857.4		0	1	834857
3	Chemical Analysis	Nos	357x90**	804478	1	804478	804478		0	1	804478
4	Report Writing	Nos	50000	50000	1	50000	50000		0	1	50000
	Sub Total G					1807284			0		1807284
	TOTAL A to H					11000434					11000434
	GST 18%										1980078
	Grand Total : with GST 18%										12980512
						Total					Rupees 129.80 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M1 dated 22/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates
3. **Approved Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year
4. *** As approved in the 12th meeting of Technical Committee & 6th sitting of Executive Committee of NMET
5. **** Rate not taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 19%(SAC Code: 998342)

B.P. Ratnam

Attn – 50/1/52/2

ANNEXURE-V

Table:5.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTL-ST-8

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19											Total
			1	2	3	4	5	6	7	8	9	10	11	
1	Camp Setting	Month	Camp will be continued from G-3 exploration											1 month
2	Surface Drilling(DTH) (2 rig)X50Bar/1 rig/Month)	m.				←	→							1100 m (in 22 BHs)
3	Survey Party days (1 Party)	day												60
4	Geologist Party days (1 Partic)	day				←	→							90
5	Sampling Party days, (1 Parties)	day				←	→							90
6	Laboratory Studies	Nos.					←	→						1505 No
7	Camp Winding	Month							↔					1
8	Environmental Studies						←						→	6 months
9	Report Writing (Including peer review)	Month								←			→	3 months

(BP-Rathi)

ANNEXURE– 30/2/023/1

ANNEXURE-II

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TBSPTLST-9,

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Exc Rate	Qty.	Amount	Exc. Rate	Qty.	Amount	Qty	Amount
			1.8.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1710	6765	900	6234000	6765	0	0	900	6234000
2	Transportation	Km	8.8	30	1250	38750	30	0	0	1250	38750
3	Accomodation	One time (Dn)	189325	663715	1	663715	663715	0	0	1	663715
4	Camp Setting / Winding	One time (Month)	68630	244910	1	244910	244910	0	0	1	244910
5	Road Making (Flat Terain)	Km	7822	13963	5	69815	16565	0	0	5	82913
	Sub Total A					7074190		0			7374190
B	GEOLOGICAL WORK										
1	Survey Party (layout 1 party)	day	1150	5842	45	262890	5842	0	0	45	262890
2	Geology Party (layout 2 party)	day	1441	7803	90	702270	7803	0	0	90	702180
3	Core Sampling Party (layout 3 parties)	day	609	2803	90	252270	2803	0	0	90	252810
4	Bulk Sampling Party Days (1 Party)	day	2998	13435	20	268730					268785
	Sub-Total B					1486570		0			1486570
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Bulk Samples										
	i) for 5 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (280+110)	2690	330	8814000	2690	7	330		8814000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	186 (76+110)	872	30	26160	872	0	30		26160
	iii) External Check Samples for 5 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	430 (71x5+110)	2583	10	33700	2583	0	10		33700
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3 Fe_2O_3, LOI, SO_3, P_2O_5 MnO, K_2O, NaO TiO_2	Nos	940 (76x11+110)	4997	40	199880	4997	0	40		199880
b	Physical Analysis										
1	Preparation of thin section	Nos	100	530	10	5300	530	0	10		5300
2	Petrographic Studies	Nos	231	1498	10	14980	1498	0	10		14980
3	Bulk Density	Nos	24	133	10	1330	133	0	10		1330
	Sub-Total C					1140070		0			1140070
D	Preservation of Core										
1	Of Core boxes	Nos		2000	60	120000	2000	0	60		120000
2	Transportation of Core Boxes	Km	8.8	31.6	1250	39750	31	0	1250		38750
	Sub-Total D					159750		0			158750
	Total A+B+C+D					9859560		0			9858660
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	120000		0	1		120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	1		10000
	TOTAL A to F					9989560					9988660
	GST 18%										1078124
	Grand Total : with GST 18%										11067784
							Total				Says 70.68 Lakhs
Note											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 8(2)/2006-M.I. dated 02/07/2014 and based on actual escalation as per WPI indices as on 31-03-2017 and the same has been considered for subsequent year										
2	Phosphoremite rates have been considered as there is no rate for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates										

Mineral Exploration and evaluation (MN SAC Code 998343)

B. P. Ratun

ANN – 53/2/23/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-9

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/rig/Month)	m.		←	→				300 (6 Bits)
3	Survey Party days (1 Party)	day		←	→				45
4	Geological Party days (1 Party)	day		←	→	→			90
5	Sampling Party days, (1 Party)	day		←	→	→			90
6	Bulk Density party (1party)	day		←	→				20
7	Laboratory Studies	Nos.		←	→	→			445 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (Including peer review)	Month				←	→	→	3 months

ANNEXURE – 50/2/62/1

ANNEXURE-III

Table-8.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TEHTLST-9

Sr. No.	Item of Work	Unit	Rates	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc. Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.99	(Rs)		(Rs)			(Rs)		(Rs)
A	Mob./Demob.										
1	Surface Drilling (2 Rigs) (All in)	m		750	1100	825000		0	0	1100	825000
2	Transportation	Km	8.8	77	2500	77000	81	0	0	2500	77000
3	Accommodation	Covering 77all	165632	883710	2	1327420	883710	0	0	2	1327420
4	Camp Working	Camp month	164496	244910	2	489820	244910	0	0	2	489820
5	Road Making (Jeep Track)	Km	7000	16565	60	993900	16565	0	0	60	993900
	Sub Total A					3641720			0		3641720
B	GEOLOGICAL SURVEY										
1	Survey Party (Jeep + 3 party)	day	1130	5650	35	197750	5650	0	0	35	197750
2	Geological Party (Jeep + 2 party)	day	1551	7902	90	711180	7902	0	0	90	711180
3	Core Sampling Party (Jeep + 2 person)	day	521	2606	90	234540	2606	0	0	90	234540
	Sub Total B					1143470			0		1143470
C	LABORATORY STUDIES										
a	Chemical Analysis										
i	Primary + Check Samples										
	i) for 5 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (260+110)	2560	1100	2816000	2560	0	0	1100	2816000
	ii) for 3 radicals SO_3 & P_2O_5	Nos	198 (70+110)	972	110	106920	972	0	0	110	106920
	iii) External Check Samples for 8 radicals(CaO, MgO SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (260+110)	2530	60	147900	2583	0	0	60	147900
ii	Carbonate Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, Na_2O, K_2O, TiO_2)	Nos	840 (730+110)	4662	140	652680	4662	0	0	140	652680
b	Physical Analysis										
1	Preparation of thin section	Nos.	100	536	10	5360	536	0	0	10	5360
2	Petrographic Studies	Nos.	225	1436	10	14360	1436	0	0	10	14360
3	Specific Gravity Determination	Nos.	33	188.5	25	4712.5	188.5	0	0	25	4712.5
	Sub Total C					3810153.5			0		3810153
D	Preservation of Core										
i)	for Core Boxes	Nos.		3000	220	660000	3000	0	0	220	660000
ii)	Transportation of Core Boxes	Km	8.8	31.0	800	15500	31	0	0	500	15500
	Sub-Total D					675500			0		675500
	Total A+B+C+D					9643743			0		9643743
E	EXPLORATION REPORT, 1.5% of (A+B+C+D) or 120000 whichever is more				1	139408			0	1	139408
F	PESP REVIEW OF EGP (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					9793151					9793151
	GST 18%										1554767
	Grand Total with GST 18%										11347918
Note						Total					Rupee 108.48 Lakh/m

1 Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2014-M.E. dated: 05/12/2014 and Revised or actual escalation as per RBI notified as on 31-03-2017 and the same has been considered for subsequent year.

2 Proportionate rates have been considered as there is no rate for Limestone in Revised Rates of Promotional Work of MoN Sched-III of Rules.

3 Proposed Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.

4 As approved in the 10th meeting of Technical Committee & 9th meeting of Executive Committee of NVFT.

5

6 Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 43% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 19%(SAC Code 998342)

Ratan

B.P. Ratan

ANN- SD/2/052/2

ANNEXURE-III

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-9

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19											Total
			1	2	3	4	5	6	7	8	9	10	11	
1	Camp Setting	Month	Camp will be continued from G-3 exploration											1 month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.				←		→						1100 m (in 22 BHs)
3	Survey Party days (1 Party)	day		←	→									30
4	Geologist Party days (1 Partie)	day				←		→						80
5	Sampling Party days, (1 Parties)	day				←		→						90
6	Laboratory Studies	Nos.					←		→					1450 No
7	Camp Winding	Month							←	→				1
8	Environmental Studies			←			→							6 months
9	Report Writing (including peer review)	Month								←		→		3 months

(BP Ratan)

ANNEXURE – 5E/M4/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-V,

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.99	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (3 Rigs)	m	1214	1762	100	676999	1783		0	100	176000
2	Transportation	Km	5.6	31	1240	38750	31		0	1250	38750
3	Accomodation	One time (Drill	83925	883715	1	883715	883715		0	1	883715
4	Camp Setting	One month	55505	244010	1	244010	244010		0	1	244010
5	Road Making (Flat Terrain)	Km	7500	14953	4	74253	18563		0	4	74252
	Sub Total A					1666627			0		1666627
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1160	5540	5	27000	5540		0	5	28200
2	Geological Party days (1 party)	day	1941	7923	50	396150	7923		0	50	396150
3	Core Sampling Party days(1 party)	day	625	5615	45	126405	5615		0	45	126405
	Sub-Total B					623738			0		623738
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+140)	2560	110	283600	2560		0	110	283600
	ii) for 2 radicals SO_3 & P_2O_5	Nos	158 (79x110)	972	10	9720	972		0	10	9720
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	495 (700x110)	2560	5	12800	2560		0	5	12800
2	Composite Samples										
	i) for 13 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	945 (70x11+175)	4992	15	74880	4992		0	15	74880
b	Physical Analysis										
1	Preparation of thin section	Nos	700	598	5	2990	598		0	5	3590
2	Petrographic Studies	Nos	338	1436	5	7180	1436		0	5	7180
3	Specific Gravity determination	Nos	12	168.5	10	1685	168.5		0	10	1685
	Sub-Total C					359055			0		360055
D	Preservation of Core										
a	Cl Core boxes	Nos		2000	20	40000	2000		0	20	40000
b	Transportation of Core Boxes	Km	5.6	31	1250	38750	31		0	1250	38750
	Sub-Total D					78750					78750
	Total A+B+C+D					2778170			0		2778170
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 60000 whichever is more				1	60000			0	1	60000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					2988167					2988167
	GST 18%										537870
	Grand Total : with GST 18%										3526037
						Total					Rupe 35.31 Lakhs
Note:											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 3(1) (2009-M) dated 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year.										
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.										
3	**Revised Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.										
4	*** As approved in the 100 meeting of Technical Committee & in meeting of Executive Committee of DNVET.										
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.										

Mineral Exploration and evaluation 1974(SAC Code: 998431)

B.P. Rattan

Ann – 56/G4/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-V

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				100.00
3	Survey Party days (1 Party)	day		↔					5
4	Geologist Party days (1 Party)	day		←	→				60
5	Core Sampling Party days, (1 Party)	day		←	→				45
6	Laboratory Studies	Nos.			←	→			160No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (Including peer review)	Month			←	→	→	→	4 months

Return

(NP Ratan)

ANNEXUAE – SE/1/63/1

ANNEXURE-III

Table:8.2 COST ESTIMATE FOR (G-1) EXPLORATION OF LIMESTONE, TSP TILST-10,

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Est. Rate	Qty.	Amount	Est. Rate	Qty.	Amount	Qty.	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rigs)	m	1714	6751	200	1350200	6751		0	200	1350200
2	Transportation	Km	8.6	31	1250	38750	31		0	1250	38750
3	Accomodation	One time (Lump sum)	165925	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	One month	63506	244910	1	244910	244910		0	1	244910
5	Road Making [Hill Terrain]	Km	7500	16563	5	82815	16563		0	5	82815
	Sub Total A					3386190			0		3386190
B	GEOLOGICAL WORK										
1	Survey Party Days (3 Parties)	day	1152	5640	20	175200	5640		0	30	175200
2	Geology Party (days (2 parties)	day	1541	7902	50	395120	7902		0	50	395120
3	Core Sampling Party days(2 parties)	day	570	3509	50	169540	3509		0	50	169540
4	Soil Sampling Party Days (1 Party)	day	3566	13439	20	268780					268780
	Sub-Total B					1080640			0		1080640
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (765+110)	2585	330	967500	3585		0	220	967500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	155 (765+110)	572	30	15440	572		0	30	15440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (765+110)	2585	10	25850	2585		0	10	25850
2	Composite Samples										
	ii) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	845 (765+110)	4982	15	74730	4982		0	15	74730
b	Physical Analysis										
1	Preparation of thin section	Nos	100	533	10	5330	536		0	10	5360
2	Petrographic Studies	Nos	609	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	133	10	1330	133.5		0	10	1335
	Sub-Total C					756660			0		756660
D	Preservation of Core										
a	Cost of Core boxes	Nos		2000	40	80000	2000		0	40	80000
b	Transportation of Core Boxes	Km	8.6	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					4304430			0		4304430
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 80000 whichever is more				1	86089			0	1	86089
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					4400519					4400519
	GST 18%										792093
	Grand Total with GST 18%										5192612
						Total					Says 51.93 Lakhs
Note											
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M1 dated 02/07/2014 and based on actual escalation as per RBI indices as on 31.03.2017 and the same has been considered for subsequent year										
2	Presumptive rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work in Mod Schedule of Rates										

Mineral Exploration and evaluation 18%(SAC Code 9983x0)

Ratan

B.P Ratan

ANN – SE/1/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TBSPTLST-10

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5	6	Total
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				200 (4 Bhs)
3	Survey Party days (1 Party)	day		←	→				30
4	Geologist Party days (1 Party)	day		←	→				60
5	Sampling Party days, (1 Party)	day		←	→				60
6	Bulk Density Party (1party)	Day		←	→				20
7	Laboratory Studies	Nos.		←	→				295No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (Including peer review)	Month				←	→		3 months

Ratan

Ratan

ANNEXURE - 5E/1/62/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-10

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.80	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		750	750	562500	0		0	750	562500
2	Transportation	Km	8.5	31	2500	77500	31		0	2500	77500
3	Accomodation	One time / Drill	185925	662715	2	1327430	662715		0	2	1327430
4	Camp Working	Drill month	69630	344311	3	688620	344311		0	2	688620
5	Road Making (Per Terrain)	Km	7000	18563	30	556890	18563		0	30	556890
	Sub Total A					3611140			0		3611140
B	GEOLOGICAL WORK										
1	Survey Party (Days / 1 party)	day	1180	5840	45	262800	same		0	45	262800
2	Geologist Party days (1 party)	day	1541	1800	90	702180	2302		0	90	702180
3	Core Sampling Party days(1 parties)	day	525	2809	90	252810	new		0	90	252810
	Sub-Total B					1217790			0		1217790
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	3582	825	2938500	3582		0	825	2938500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	186 (75+110)	972	75	72900	972		0	75	72900
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (70x5+110)	2560	35	89600	2560		0	35	89600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2)	Nos	840 (70x11+110)	4992	100	499200	4992		0	100	499200
b	Physical Analysis										
3	Preparation of thin section	Nos	100	538	10	5380	538		0	10	5380
4	Petrog aphic Studies	Nos	228	1436	10	14360	1436		0	10	14360
5	Specific Gravity determination	Nos	55	188.5	25	4712.5	188.5		0	25	4712.5
	Sub-Total C					2816352.5			0		2816352
D	Preservation of Core										
i)	Gi Core boxes	Nos		2000	150	300000	2000		0	150	300000
ii)	Transportation of Core Boxes	Km	8.5	31.0	500	15500	31		0	500	15500
	Sub-Total D					315500			0		315500
	Total A+B+C+D					7362783			0		7362783
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	39687	457948.2	1	457948.1998	457948.2		0	1	457948
2	Base line Data Collection	(10 km radius area)	151272	694857.4	1	694857.2952	694857.4		0	1	694857
3	Chemical Analysis	Nos	237400**	604478	1	604478	604478		0	1	604478
4	Report Writing	Nos	50000	50000	1	50000	50000		0	1	50000
	Sub Total G					1807284			0		1807284
	TOTAL A to H					9300067					9300068
	GST 18%										1674013
	Grand Total : with GST 18%										10974079
						Total					Says 109.74 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2005-MI dated 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. **Nilgiroad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 128th meeting of Technical Committee & 81 meeting of Executive Committee of NMET.
5. **** Rate has been from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2016-19.

Mineral Exploration and evaluation 'nec(SAC Code 999342)

(B P Rathore)

ANNEXURE – B6/1/G2/2

ANNEXURE-V

Table:8.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-10

Sl. No.	Activities	Unit	MONTHS Financial Year -2016-18										Total
			1	2	3	4	5	6	7	8	9	10	
1	Camp Setting	Month	Camp will be continued from G-3 exploration										1 month
2	Surface Drilling(DTH) (2 rig/500m/1 rig/Month)	m.				←	→						750 m (in 15 BHs)
3	Survey Party days (1 Party)	day				←	→						45
4	Geologist Party days (1 Partie)	day				←	→						90
5	Sampling Party days, (1 Parties)	day				←	→						90
6	Laboratory Studies	Nos.					←	→					1030 No
7	Camp Winding	Month							←	→			1
8	Environmental Studies						←	→					6 months
9	Report Writing (Including peer review)	Month								←	→		3 months

RSP Rautan

ANNEXURE– 5F/64/1

ANNEXURE III

Table:5.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-VI,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1714	6700	200	1355000	6700	0	0	200	1355000
2	Transportation	Km	8.8	31	1250	38750	31	0	0	1250	38750
3	Accomodation	One time 1 Drill	189825	653713	1	653713	653713	0	0	1	653713
4	Camp Setting	Drill/ month	58600	344910	1	344910	344910	0	0	1	344910
5	Road Making (Flat Terrain)	Km	7800	18963	4	74252	18963	0	0	4	74252
	Sub Total A					2377627			0		2377627
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1191	1640	16	47900	5540	0	0	16	87500
2	Geologist Party days (1 party)	day	154	7802	60	468120	7802	0	0	60	468120
3	Core Sampling Party days(1 set/Y)	day	623	2809	60	1685400	3000	0	0	60	1685340
	Sub-Total B					724200			0		724260
C	LABORATORY STUDIES										
	a Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (75x5+110)	2590	220	997500	2591	0	0	220	567500
	ii) for 2 radicals SO_3 & P_2O_5	Nos	185 (70+110)	972	20	19440	973	0	0	20	19440
	iii) External Check Samples for 6 - radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (75x5+110)	3500	10	35000	3500	0	0	10	35000
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O, TiO_2	Nos	840 (75x11+110)	4982	25	124550	4982	0	0	25	124550
	b Physical Analysis										
1	Preparation of thin section	Nos	100	538	5	3590	538	0	0	5	2690
2	Petrographic Studies	Nos	220	1438	5	7190	1438	0	0	5	7190
3	Specific Gravity determination	Nos	50	1881.5	10	18815	1881.5	0	0	10	1881
	Sub-Total C					749395			0		749395
D	Preservation of Core										
i)	Gl Core boxes	Nos.		2000	40	80000	2000	0	0	40	80000
ii)	Transportation of Core Boxes	Km	8.8	31	1250	38750	31	0	0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					3970032			0		3970032
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 50000 whichever is more				0	79401			0	1	79401
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					4059433					4059433
	GST 18%										730698
	Grand Total : with GST 18%										4790131
						Total					Says 47.90 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 5701 (Dem.M.) dated 02/07/2014 and based on actual escalation as per RBI Indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Prevailing rate have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of Model Schedule of Rates.
3. **Rates and Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation (PR/SAC Code: 995343)

(B.P. Ratnin)

ANN – 5F/64/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-VI

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	← →						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		← →					200.00
3	Survey Party days (1 Party)	day		← →					15
4	Geologist Party days (1 Party)	day		← →					60
5	Core Sampling Party days, (1 Party)	day		← →					60
6	Laboratory Studies	Nos.			← →				295 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←	→			4 months

Ratnoi

B.P. Ratnoi

ANNEXURE – SF/1/G3/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-11.

Sl. No.	Item of Work	Unit	Basic Rate 1.6.90	Financial Year (2018-19) Esc.Rate (Rs)	Qty.	Amount (Rs)	Financial Year (2019-20) Esc. Rate	Qty.	Amount (Rs)	Total Qty	Total Amount (Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m.	1714	0750	300	2034000	0750		0	300	2034000
2	Transportation	Km	3.5	31	1200	38750	31		0	1250	38750
3	Accomodation	One time / Drill	183928	563715	1	563715	563715		0	1	563715
4	Camp Setting / Winding	One month	58590	244910	1	244910	244910		0	1	244910
5	Road Making (Hill Terrain)	Km	7800	16565	5	82815	16565		0	5	82815
	Sub Total A					3074190			0		3074190
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5640	45	252800	5640		0	45	252800
2	Geological Party days (2 party)	day	1541	7802	90	702180	7802		0	90	702180
3	Core Sampling Party days(2 parties)	day	625	2809	90	252810	2809		0	90	252810
	Bulk Sampling Party Days (1 Party)	day	2566	13439	20	268780			0		268780
	Sub-Total B					1486570					1486570
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (75x5+115)	2560	330	851400	2560		0	330	851400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	188 (70+110)	972	30	29160	972		0	30	29160
	a) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (75x5+115)	2560	10	26700	2560		0	10	26700
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	648 (75x11+115)	4922	40	196880	4880		0	40	196880
b	Physical Analysis										
1	Preparation of thin section	Nos	190	536	10	5360	536		0	10	5360
2	Petrographic Studies	Nos	223	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	139	10	1390	139.5		0	10	1390
	Sub-Total C					1140070			0		1140070
D	Preservation of Core										
i)	GI Core boxes	Nos		2000	60	120000	2000		0	60	120000
ii)	Transportation of Core Boxes	Km	8.6	31.0	1200	38750	31		0	1250	38750
	Sub-Total D					158750					158750
	Total A+B+C+D					5859580			0		5859580
E	EXPLORATION REPORT:- 1.5% of (A+B+C+D) or 120000 whichever is more				0	120000			0	1	120000
F	PEER REVIEW OF DSR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					5859580					5859580
	GST 18%										1078124
	Grand Total : with GST 18%					Total					7067704
											Says 70.68 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M.I. dated- 02/07/2014 and based on actual escalation as per WPI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Hydrothermal rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.

Mineral Exploration and evaluation 10%(SAC Code: 995433).

B.P. Ratan

BS

ANN – SF/1/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-11

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				300 (6 Bhs)
3	Survey Party days (1 Party)	day		←	→				45
4	Geologist Party days (1 Party)	day		←	→	→			90
5	Sampling Party days, (1 Party)	day		←	→	→			90
6	Bulk sampling Party (1Party)	day		↔					20
6	Laboratory Studies	Nos.		←	→	→			445 No
7	Camp Winding	Month					↔		1 month
8	Report Writing (Including peer review)	Month				←	→	→	3 months

Ratnam

BP Ratnam

ANNEXURE – SF/1/G2/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-11

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		750	1000	750000	0		0	1000	750000
2	Transportation	Km	8.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time / Drill	165825	663710	2	1327420	663710		0	2	1327420
4	Camp Winding	Drill/ month	59000	244910	4	979640	244910		0	4	979640
5	Road Making (Fair Terrain)	Km	7800	18553	10	185530	18553		0	10	185530
	Sub Total A					3320090			0		3320090
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	7100	5840	30	175200	5840		0	30	175200
2	Geologist Party days (1 party)	day	7541	7802	90	702180	7802		0	90	702180
3	Core Sampling Party days(1 parties)	day	525	2809	90	252810	2809		0	90	252810
	Sub-Total B					1130190			0		1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary – Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (78x5+110)	2580	1100	2838000	2580		0	1100	2838000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	145 (78+110)	872	100	87200	872		0	100	87200
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (78x5+110)	2580	50	129000	2580		0	50	129000
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	845 (78x11+110)	4060	125	524000	4060		0	125	524000
b	Physical Analysis										
3	Preparation of thin section	Nos	100	538	10	5380	538		0	10	5380
4	Petrographic Studies	Nos	220	1436	10	14360	1436		0	10	14360
5	Specific Gravity determination	Nos	33	188.5	25	4712.5	188.5		0	25	4712.5
	Sub-Total C					3713652.5			0		3713652
D	Preservation of Core										
i)	GI Core boxes	Nos		2000	260	520000	2000		0	260	520000
ii)	Transportation of Core Boxes	Km	8.8	31.8	650	20150	31		0	650	20150
	Sub-Total D					520150					520150
	Total A+B+C+D					8683193			0		8683193
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				0	133539			0	1	133539
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	99587	457948.2	1	457948.1988	457948.2		0	1	457948
2	Base line Data Collection	(10 km radius area)	151273	694857.4	1	694857.3982	694857.4		0	1	694857
3	Chemical Analysis	Nos	257400**	604478	1	604478	604478		0	1	604478
4	Report Writing	Nos	50000	50000	1	50000	50000		0	1	50000
	Sub Total G					1807284			0		1807284
	TOTAL A to H					10654016					10654015
	GST 18%										1914123
	Grand Total : with GST 18%										12568138
						Total					Says 125.68 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2006-M) dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year
2. Provisional rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. **Historial Committee Rates with actual escalation as per RBI Index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 10%(SAC Code: 998342)

BP Ratnam

ANN – SF/1/62/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-11

Sl. No.	Activities	Unit	MONTHS							Total
			Financial Year -2018-19							
			1	2	3	4	5	6	7	
1	Camp Setting	Month	←	→						1 Month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.		←	→					1000 m (in 20 BHs)
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Partie)	day		←	→	→				90
5	Sampling Party days, (1 Parties)	day		←	→	→				90
6	Laboratory Studies	Nos.			←	→	→			1420 No
7	Camp Winding	Month				←	→			1 Month
8	Environmental Studies			←	→	→	→	→	→	6 months
8	Report Writing (including peer review)	Month					←	→	→	3 months

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(BP Ratnis)

ANNEXURE– 5F/2/G3/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSSPTLST-12,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1716	6760	200	1356000	6760		0	200	1356000
2	Transportation	Km	8.5	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Drill	189825	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	Drill/ month	98591	244910	1	244910	244910		0	1	244910
5	Road Making (Flat Terrain)	Km	7800	16663	5	83315	16663		0	5	83315
	Sub Total A					3396190			0		3396190
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1190	5940	30	175200	5940		0	30	175200
2	Geologist Party days (2 party)	day	1641	7902	60	465120	7902		0	60	465120
3	Core Sampling Party days(2 parties)	day	525	2809	60	168540	2809		0	60	168540
	Bulk Sampling Party Days (1 Party)	day	2566	13459	20	269180			0	20	269180
	Sub-Total B					1080640			0		1080640
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary – Check Samples										
	i) for 8 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (75x5+110)	2580	220	567600	2580		0	220	567600
	ii) for 2 radicals SO_3 & P_2O_5	Nos	185 (75+110)	972	20	19440	972		0	20	19440
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (75x5+110)	2580	10	25800	2580		0	10	25800
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O TiO_2	Nos	845 (75x11+110)	4032	15	74880	4032		0	15	74880
b	Physical Analysis										
1	Preparation of thin section	Nos	100	638	10	6380	638		0	10	6380
2	Petrographic Studies	Nos	221	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	156	10	1560	156		0	10	1560
	Sub-Total C					708860			0		708860
D	Preservation of Core										
ii	GI Core boxes	Nos		2000	40	80000	2000		0	40	80000
iii	Transportation of Core Boxes	Km	8.5	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					118750			0		118750
	Total A+B+C+D					4304430			0		4304430
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 50000 whichever is more				0	86089			0	1	86089
F	PEER REVIEW OF DGM (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					4400519					4400519
	GST 18%										792093
	Grand Total : with GST tax										5192612
Note:						Total					Rupees 51.93 Lakhs
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(0)/2006-MI dated- 02/07/2014 and levied on actual escalation as per RBI Indices as on 31-03-2017 and the same has been considered for subsequent year.										
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.										

Mineral Exploration and investigation 1806/SAC Code: 998341)

B P Ratuni

ANN - 5F/2/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSSPTLST-12

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	In continuation of G4						1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				200 (4 Bhs)
3	Survey Party days (1 Party)	day		←	→				30
4	Geologist Party days (1 Party)	day		←	—	→			60
5	Sampling Party days, (1 Party)	day		←	—	→			60
6	Bulk sampling Party days(1party)	day		←	→				20
7	Laboratory Studies	Nos.		←	—	—	→		295 No
8	Camp Winding	Month					←	→	1 month
9	Report Writing (including peer review)	Month				←	—	→	3 months

(B.P. Ratnam)

ANNEXURE – SF/2/G2/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSSPTLST-12

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m.		750	900	675000	0		0	900	675000
2	Transportation	Rs.	6.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time / Drill	139835	663710	2	1327420	668710		0	2	1327420
4	Camp Winding	Drill/ month	69905	244510	2	489020	244510		0	2	489020
5	Road Making (Flat Terrain)	Km	7800	18553	50	928150	18553		0	50	928150
	Sub Total A					3497090			0		3497090
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1195	5940	30	178200	5940		0	30	178200
2	Geologist Party days (1 party)	day	1541	7802	90	702180	7802		0	90	702180
3	Core Sampling Party days(1 parties)	day	525	2809	90	252810	2809		0	90	252810
	Sub-Total B					1130190			0		1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary – Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	410 (78x5+110)	2565	990	2554200	2565		0	990	2554200
	ii) for 2 radicals SO_3 & P_2O_5	Nos	186 (76+110)	972	90	87480	972		0	90	87480
	iii) External Check Samples for 8 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	460 (78x5+110)	2580	45	116100	2580		0	45	116100
2	Composite Samples										
	i) for 10 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O TiO_2	Nos	845 (76x11+110)	4692	135	634020	4692		0	135	634020
b	Physical Analysis										
3	Preparation of thin section	Nos.	100	539	10	5390	539		0	10	5390
4	Petrographic Studies	Nos	229	1436	10	14360	1436		0	10	14360
5	Specific Gravity determination	Nos	20	188.5	25	4712.5	188.5		0	25	4712.5
	Sub-Total C					3496232.5			0		3496232
D	Preservation of Core										
6	Sl Core boxes	Nos.		2000	180	360000	2000		0	180	360000
10	Transportation of Core Boxes	Km	6.8	31.0	500	15500	31		0	500	16500
	Sub-Total D					376500					376500
	Total A+B+C+D					8409823			0		8409823
E	EXPLORATION REPORT - 1.6% of (A+B+C+D) or 120000 whichever is more				1	129580			0	1	129580
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					8549183					8549183
	GST 18%										1538853
	Grand Total : with GST 18%										10088036
						Total					Saya 100.88 Lakhs

Note:

1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 370) /2005-MEL dated- 03/07/2014 and based on actual escalation as per RBI indices as on 31-05-2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3	**Hyderabad Committee Rates with actual escalation as per RBI index as on 31.5.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & 11th meeting of Executive Committe of NMET
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 10% (SAC Code: 998342)

Ratnam

N.P. Ratnam

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSSPTLST-12

Sl. No.	Activities	Unit	MONTHS											Total
			Financial Year -2018-19											
			1	2	3	4	5	6	7	8	9	10	11	
1	Camp Setting	Month	Camp will be continued from G-3 exploration											1 month
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.				←	—	→						900 m (in18 BHs)
3	Survey Party days (1 Party)	m.				←	→							30
4	Geologist Party days (1 Partie)	day				←	—	→						90
5	Sampling Party days, (1 Parties)	day				←	—	→						90
6	Laboratory Studies	Nos.					←	—	→					1295 No
7	Camp Winding	Month						←	→					1
8	Environmental Studies						←	—	—	—	—	→		6 months
8	Report Writing (Including peer review)	Month								←	—	→		3 months

Dr. Ratnis

ANNEXURE – 5a/64/1

ANNEXURE-III

Table:5.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-VII,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.16	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1214	5780	200	1356000	6780		0	200	1356000
2	Transportation	Km	8.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Drill	166926	666716	1	666716	666716		0	1	666716
4	Camp Setting	On'f (no's)	68606	244910	1	244910	244910		0	1	244910
5	Road Making (Flat Terrain)	Km	7850	18563	4	74252	18563		0	4	74252
	Sub Total A					2377627			0		2377627
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1130	5340	10	58400	5840		0	10	58400
2	Geologist Party days (1 party)	day	1041	7802	60	468120	7802		0	60	468120
3	Core Sampling Party days(1 party)	day	828	2809	60	168540	2809		0	60	168540
	Sub-Total B					695060			0		695060
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78x5=110)	2540	220	557800	2540		0	220	557800
	ii) for 2 radicals SO_3 & P_2O_5	Nos	166 (78+110)	972	20	19440	972		0	20	19440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	490 (78x5=110)	2540	10	25400	2540		0	10	25400
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO, K_2O, Na_2O, TiO_2	Nos	946 (78x11=110)	4962	25	124050	4962		0	25	124050
b	Physical Analysis										
1	Preparation of thin section	Nos	102	538	5	2690	538		0	5	2690
2	Petrographic Studies	Nos	208	1436	5	7180	1436		0	5	7180
3	Specific Gravity determination	Nos	32	188.5	10	1885	188.5		0	10	1885
	Sub-Total C					748395			0		748395
D	Preservation of Core										
i	GI Core boxes	Nos		2000	40	80000	2000		0	40	80000
ii	Transportation of Core Boxes	Km	8.8	31	1250	38750	31		0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					3940832			0		3940832
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 68000 whichever is more				1	78817			0	1	78817
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					4029649					4029649
	GST 18%										725337
	Grand Total : with GST 18%										4754986
						Total					Saya 47.55 Lakhs

Note

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(i) /2005-M.I dated- 02/07/2014 and based on annual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of Model Schedule of Rates.
3. **Nilgiri Committee Rates with annual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 18%(SAC Code- 998349)

Baturi

B.P. Baturi

ANN – 5G/G4/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-VII

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				200.00
3	Survey Party days (1 Party)	day		←	→				10
4	Geologist Party days (1 Party)	day		←	→				60
5	Core Sampling Party days, (1 Party)	day		←	→				60
6	Laboratory Studies	Nos.			←	→			295 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←			→	4 months

Ratna
B.P. Ratna

ANNEXURE– 56/1/G3/1

ANNEXURE III

Table:8.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSVKBLST-1,

SL No.	Item of Work	Unit	Basis	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m	1714	8750	150	1017000	4750		0	150	1017000
2	Transportation	Km	5.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Unit	183985	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	Drill/ month	66500	344810	0	0	344810		0	0	0
5	Road Making (Flat Terrain)	Km	7500	18563	5	92815	18563		0	5	92815
	Sub Total A					1812280			0		1812280
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1190	5841	30	175230	5841		0	30	175230
2	Geological Party days (1 parte)	day	1541	7562	60	453720	7562		0	60	453720
3	Core Sampling Party days(1 party)	day	525	2809	60	168540	2809		0	60	168540
4	Bulk Sampling Party Days (1 Party)	day	2598	13434	10	134340					134340
	Sub-Total B					946200			0		946200
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (70x5+110)	2580	165	425700	2580		0	165	425700
	ii) for 2 radicals SO_3 & P_2O_5	Nos	188 (78+110)	972	15	14580	972		0	15	14580
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (78x5+110)	2580	10	25800	2580		0	10	25800
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5,MnO_2, K_2O, Na_2O, TiO_2	Nos	946 (78x12+110)	4862	20	99940	4862		0	20	99840
b	Physical Analysis										
1	Preparation of thin section	Nos	101	538	10	5380	538		0	10	5380
2	Petrographic Studies	Nos	229	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	34	139	10	1390	188.5		0	10	1390
	Sub-Total C					587050			0		587050
D	Preservation of Core										
i)	Core boxes	Nos		2000	30	60000	2000		0	30	60000
ii)	Transportation of Core Boxes	Km	8.8	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					98750					98750
	Total A+B+C+D					3444280			0		3444280
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 60000 whichever is more				0	68886			0	1	68886
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					3523166					3523166
	GST 18%										634170
	Grand Total : with GST 18%										4157336
						Total					Says 41.57 Lakhs

Note:

1	Revised Rates of Provisional Work done by MECL on behalf of Govt. of India Vide letter No. 370/(3)/05-M dated- 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2	Private hire rates have been considered as there is no rates for Lakshadweep in Revised Rates of Provisional Work of MoM Schedule of Rates.
s	**Nityanad Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
+	*** As approved in the 12th meeting of Technical Committee & 5th meeting of Executive Committe of NMET.
h	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2018-19 and 40% escalation on the same has been considered for FY 2019-20.

Mineral Exploration and evaluation 10% (SAC Code: 998543)

Ratan

Rep. Ratan

ANN- 56/1/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSVKBLST-1

Sl. No.	Activities	Unit	MONTHS 1	2	3	4	5		6	Total
1	Camp Setting	Month	In continuation of G4							1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→					150.00
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Party)	day		←	—	→				60
5	Sampling Party days, (1 Party)	day		←	—	→				60
6	Bulk Density Party days, (1 party)	day		←	→					10
7	Laboratory Studies	Nos.			←	—	→			240 No
8	Camp Winding	Month	Continue to G2							-
9	Report Writing (including peer review)	Month				←	—	—	→	4 months

Ratnam
(B.P. Ratnam)

ANNEXURE – 56/1/GR/1

ANNEXURE-III

Table:6.3 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSVKBLST-1

Sl. No.	Item of Work	Unit	Base	Financial Year (2015-16)			Financial Year (2016-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.09	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m.		750	400	300000			0	400	300000
2	Transportation	Km.	8.8	31	2500	77500	31		0	2500	77500
3	Mobilisation	One time / Drill	166925	668715	0	1327430	668715		0	2	1327430
4	Camp Winding	Drill month	69805	244010	2	488020	244010		0	0	488020
5	Road Making (Flat Terrain)	Km	7507	18550	20	371260	18550		0	20	371260
	Sub Total A					2956010			0		2956010
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5940	10	59400	5940		0	10	59400
2	Geologist Party days (1 party)	day	1541	7902	60	468120	7902		0	60	468120
3	Core Sampling Party days(1 parties)	day	925	3809	60	185340	3809		0	60	185340
	Sub-Total B					695060			0		695060
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (70x5+110)	2560	440	1126200	2560		0	440	1126200
	ii) for 2 radicals SO_3 & P_2O_5	Nos	156 (70+110)	972	40	38880	972		0	40	38880
	iii) External Check Samples for 6 radicals(CaO, MgO SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (70x5+110)	2560	20	51600	2560		0	20	51600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	940 (70x11+110)	4962	50	248500	4962		0	50	248500
b	Physical Analysis										
3	Preparation of thin section	Nos	102	538	10	5380	538		0	10	5380
4	Petrographic Studies	Nos	228	1438	10	14380	1438		0	10	14380
5	Specific Gravity determination	Nos	52	166.5	20	3770	166.5		0	20	3770
	Sub-Total C					1498790			0		1498790
D	Preservation of Core										
	i) Core boxes	Nos.		2000	80	160000	2000		0	80	160000
	ii) Transportation of Core Boxes	Km	8.8	31.0	500	15500	31		0	500	15500
	Sub-Total D					175500			0		175500
	Total A+B+C+D					4925360			0		4925360
E	EXPLORATION REPORT - 1.6% of (A+B+C+D) or 120000 whichever is more					120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
G	Environmental Studies										
1	Satellite Imagery Study	Scene	95697	457948.2	1	457948.2000	457948.2		0	1	457948
2	Base line Data Collection	(10 km radius area)	151273	694857.4	1	694857.3883	694857.4		0	1	694857
3	Chemical Analysis	Nos.	257400**	604478	1	604478	604478		0	1	604478
4	Report Writing	Nos.	50000	50000	1	50000	50000		0	1	50000
	Sub Total G					1807284			0		1807284
H	***Preparation of Proposal (Lump Sum)					0			0		0
	TOTAL A to H					8872644					8872644
	GST rate										1237078
	Grand Total i with GST 18%										10109715
Note						Total					Say# 81.10 Lakhs

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India vide letter No. 3(10)/2005-M.L. dated-19/07/2014 and 50000 on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. **Manual Committee Rates with actual escalation as per RBI Index as on 31.3.2017 and the same is for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & in meeting of Executive Committee of NMET.
5. **** Rate has been from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same rate has been considered for FY 2015-16.

Mines: Exploration and evaluation 18%;SAC Code: 998431

Batra

BP Batra

ANN — SK/1/Gr2/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSVKBLST-1

Sl. No.	Activities	Unit	MONTHS											Total
			Financial Year -2018-19											
			1	2	3	4	5	6	7	8	9	10	11	
			Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	
1	Camp Setting	Month	Camp will be continued from G-3 exploration											-
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.				←	→							400 m (In 8 BHs)
3	Survey Party days (1 Party)	day				←	→							10
4	Geologist Party days (1 Partie)	day				←	→							60
5	Sampling Party days, (1 Parties)	day				←	→							60
6	Laboratory Studies	Nos.					←	→						590
7	Camp Winding	Month						←	→					1
8	Environmental Studies					←					→			6 months
8	Report Writing (including peer review)	Month							←		→			3 months

Ratnam

B.P. Ratnam

ANNEXURE – 56/2/63/1

ANNEXURE-III

Table6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSVK(NLST-2,

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m.	1714	6769	200	1353800	6769		0	200	1353800
2	Transportation	Km	8.6	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Drill	165825	663715	1	663715	663715		0	1	663715
4	Camp Setting / Winding	Drill/ month	69609	244810	0	0	244810		0	0	0
5	Road Making (Flat Terrain)	Km	7800	16563	5	82815	16563		0	5	82815
	Sub Total A					2151280			0		2151280
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5640	30	172200	5640		0	30	172200
2	Geologist Party days (1 party)	day	1541	7602	60	456120	7602		0	60	456120
3	Core Sampling Party days(1 party)	day	535	2809	60	168540	2809		0	60	168540
4	Bulk Sampling Party Days (1 Party)	day	2905	13434	10	134340					134340
	Sub-Total B					946200			0		946200
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	492 (78x5+110)	2580	220	567600	2580		0	220	567600
	ii) for 2 radicals SO_3 & P_2O_5	Nos	166 (751.110)	972	20	19440	972		0	20	19440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	400 (78x5+110)	2580	10	25800	2580		0	10	25800
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	948 (78x11+110)	4932	25	123300	4932		0	25	123300
b	Physical Analysis										
1	Preparation of thin section	Nos	100	535	10	5350	535		0	10	5350
2	Petrographic Studies	Nos	228	1436	10	14360	1436		0	10	14360
3	Bulk Density	Nos	24	139	10	1390	139.5		0	10	1395
	Sub-Total C					758770			0		758770
D	Preservation of Core										
i)	Core boxes	Nos		2000	40	80000	2000		0	40	80000
ii)	Transportation of Core Boxes	Km	8.6	31.0	1250	38750	31		0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					3975000			0		3975000
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 50000 whichever is more				0	79500			0	1	79500
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					4064500					4064500
	GST 18%										731610
	Grand Total : with GST 18%										4796110
						Total					Says 47.96 Lakhs

Note

1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 37(1)/2006-M.I dated- 02/07/2014 and Based on actual escalation as per WPI indices as on 31-03-2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3	**Nilgiri Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration and evaluation 1816(SAC Code 998343)

BP Ratnam

ANN– 56/2/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSVKBLST-2

Sl. No.	Activities	Unit	MONTHS							Total
			1	2	3	4	5		6	
1	Camp Setting	Month	In continuation of G4							1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→					200.00
3	Survey Party days (1 Party)	day		←	→					30
4	Geologist Party days (1 Party)	day		←	→					60
5	Sampling Party days, (1 Party)	day		←	→					60
6	Bulk Density Party days, (1 party)	day		←	→					10
7	Laboratory Studies	Nos.			←	→				305 No
8	Camp Winding	Month	Continue to G2							-
9	Report Writing (including peer review)	Month				←	→	→	→	4 months

Ratnam

BP. Ratnam

ANNEXURE – 5 Or/2/Gr2/1

Table:6.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSVKBLST-2

Sl. No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.99	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (2 Rigs) (DTH)	m		750	800	600000		0	0	800	600000
2	Transportation	Km	6.8	31	2500	77500		0	0	2500	77500
3	Accomodation	One time / Drill	189928	563715	2	1327430	563715		0	2	1327430
4	Camp Working	Drill/ month	68508	244910	2	489820	244910		0	2	489820
5	Road Making (Flat Terrain)	Km	7500	13583	59	928150	19913		0	59	928150
	Sub Total A					3422900			0		3422900
B	GEOLOGICAL WORK										
1	Survey Parts Days (1 party)	day	1100	5840	20	116800	5840	0	0	20	116800
2	Geologist Party days (1 party)	day	1541	7602	60	456120	7602	0	0	60	456120
3	Core Sampling Party days(1 parties)	day	701	2809	60	168540	2809	0	0	60	168540
	Sub-Total B					741460			0		741460
C	LABORATORY STUDIES										
a	Chemical Analysis										
i	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (75x6+110)	3580	880	3270400	3580	0	0	880	3270400
	ii) for 2 radicals SO_3 & P_2O_5	Nos	166 (76+110)	972	80	77760	972	0	0	80	77760
	iii) External Check Samples for 5 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (75x6+110)	2580	40	103200	2580	0	0	40	103200
2	Composite Samples										
	i) for 12 radicals (CaO, MgO SiO_2, Al_2O_3, Fe_2O_3, LOI SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	348 (75x11+110)	4392	100	439200	4392	0	100	100	439200
ii	Physical Analysis										
1	Preparation of thin section	Nos	100	538	10	5380	538	0	0	10	5380
2	Petrographic Studies	Nos	220	1438	10	14380	1438	0	0	10	14380
3	Specific Gravity determination	Nos	32	188.5	20	3770	188.5	0	0	20	3770
	Sub-Total C					2974070			0		2974070
D	Preservation of Core										
i)	Cr.Core boxes	Nos		2000	160	320000	2000	0	0	160	320000
ii)	Transportation of Core boxes	Km	6.8	91.0	500	15500	31	0	0	500	15500
	Sub-Total D					335500					335500
	Total A+B+C+D					7485930			0		7485930
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	120000			0	1	120000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					7615930					7615930
	GST 18%										1370867
	Grand Total : with GST 18%										8986797
						Total					Says 89.87 Lakhs

Note:	
1	Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 3(1)/2006-M.I. dated: 02/07/2014 and based on actual escalation as per RBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2	Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3	**Nilyanod Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4	*** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committe of NMET
5	**** Rate has taken from Schedule of Charges of different activities of GSI as on 2016-17 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 1806(SAC Code: 998343)

Ratnam

BP. Ratnam

ANN – 56/2/02/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSVKBLST-2

Sl. No.	Activities	Unit	MONTHS (Financial Year -2018-19) 1	2	3	4	5	6	7	8	9	Total
1	Camp Setting	Month	Camp will be continued from G-3 exploration									-
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.				←	–	→				800 m (in 16 BHs)
3	Survey Party days (1 Party)	day				←	→					20
4	Geologist Party days (1 Partie)	day				←	–	→				60
5	Sampling Party days, (1 Parties)	day				←	–	→				60
6	Laboratory Studies	Nos.					←	–	→			1140
7	Camp Winding	Month						←	→			1
8	Environmental Studies					←	–	–	–	–	→	6 months
8	Report Writing (including peer review)	Month							←	–	→	3 months

Ratnam

B.P. Ratnam

ANNEXURE – 5H/64/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-4) EXPLORATION OF LIMESTONE, Cluster-VIII,

Sl. No.	Item of Work	Unit	Base	Financial Year (2016-17)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
			1.4.90	(Rs)		(Rs)			(Rs)		(Rs)
A	DRILLING										
1	Surface Drilling (1 Rig)	m.	1714	6750	100	675000	3250		0	100	675000
2	Transportation	Km.	6.8	31	1250	38750	31		0	1250	38750
3	Accomodation	One time / Drill	165823	669715	1	669715	669715		0	1	669715
4	Camp Siting	Drill month	69500	244910	1	244910	244910		0	1	244910
5	Road Making (Flat Terrain)	Km	2800	18563	4	74252	18563		0	4	74252
	Sub Total A					1695627			0		1695627
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5840	5	29200	5840		0	5	29200
2	Geological Party days (1 party)	day	1341	7802	60	468120	7802		0	60	468120
3	Core Sampling Party days(1 party)	day	525	3805	60	169640	2805		0	60	168640
	Sub-Total B					665960			0		665960
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary + Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (250+110)	2590	110	283900	2580		0	110	283900
	ii) for 2 radicals SO_3 & P_2O_5	Nos	180 (70+110)	972	10	9720	972		0	10	9720
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	450 (250+110)	2580	6	12900	2580		0	6	12900
2	Composite Samples										
	i) for 13 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2)	Nos	560 (750+110)	4992	15	74880	4992		0	15	74880
b	Physical Analysis										
1	Preparation of thin section	Nos	100	938	3	2690	538		0	5	2690
2	Petrographic Studies	Nos	228	1438	5	7190	1438		0	5	7190
3	Specific Gravity determination	Nos	32	188.5	10	1885	188.5		0	10	1885
	Sub-Total C					393055			0		393055
D	Preservation of Core										
i)	Cl Core boxes	Nos		2000	20	40000	2000		0	20	40000
ii)	Transportation of Core Boxes	Km	6.8	31	1250	38750	31		0	1250	38750
	Sub-Total D					78750					78750
	Total A+B+C+D					2837292			0		2837292
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 60000 whichever is more				0	60000			0	1	60000
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000		0	1	10000
	TOTAL A to F					2907292					2907292
	GST 18%										523313
	Grand Total : with GST 18%										3430606
						Total					Rupees 34.31 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 3701/2/2010-MI dated 10/07/2014 and based on actual escalation as per WPI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. **Rejected Committee Rates with actual escalation as per WPI index as on 31.3.2017 and the same for subsequent year.
4. ***As approved in the 12th meeting of Technical Committee & 9th meeting of Executive Committe of NMET.
5. **** Rate has taken from Schedule of Charges of offshore activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration cost evaluation 1994(DAC Code 99034)

Ratnam

BP. Ratnam

ANN – 5H/G4/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-4 EXPLORATION for Cluster-VIII

Sl. No.	Activities	Unit	MONTHS						Total
			1	2	3	4	5	6	
1	Camp Setting	Month	←	→					1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→				100.00
3	Survey Party days (1 Party)	day		◇					5
4	Geologist Party days (1 Party)	day		←	→				60
5	Core Sampling Party days, (1 Party)	day		←	→				60
6	Laboratory Studies	Nos.			←	→			160 No
7	Camp Winding	Month	Continue to G-3						
8	Report Writing (including peer review)	Month			←			→	4 months

Patra

Patra

ANNEXURE- SH/2/G3/1

ANNEXURE-III

Table:6.2 COST ESTIMATE FOR (G-3) EXPLORATION OF LIMESTONE, TSVKBLST-3,

Sl. No.	Item of Work	Unit	Basic Rate	Financial Year (2018-19) Exc.Rate (Rs)	Qty.	Amount (Rs)	Financial Year (2019-20) Exc. Rate	Qty.	Amount (Rs)	Total Qty	Total Amount (Rs)
A	DRILLING		1.4.80								
1	Surface Drilling (1 Rigs)	m	1716	6760	200	1352000	6760	0	0	200	1352000
2	Transportation	Km.	8.8	31	1250	38750	31	0	0	1250	38750
3	Accomodation	One time / Drill	165925	668715	1	668715	668715	0	0	1	668713
4	Camp Setting / Winding	Drill/ month	86600	344810	0	0	344810	0	0	0	0
5	Road Making (Flat Terrain)	Km	7820	18588	5	92940	18588	0	0	5	92815
	Sub Total A					2151380		0			2151268
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	7100	5840	20	116800	7800	0	0	20	116800
2	Geological Party days (1 party)	day	1641	7802	60	468120	7802	0	0	60	468120
3	Core Sampling Party days(1 party)	day	925	2809	60	168540	2809	0	0	60	168540
	Bulk Sampling Party Days (1 Party)	day	7666	13434	10	134340					134340
	Sub-Total B					887800		0			887800
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Primary / Check Samples										
	i) for 6 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	495 (7500+110)	2560	220	507000	2560	0	0	220	507000
	ii) for 2 radicals SO_3 & P_2O_5	Nos	180 (750+110)	972	20	19440	972	0	0	20	19440
	iii) External Check Samples for 6 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	495 (7500+110)	2560	10	25600	2560	0	0	10	25600
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5 /MnO_2, K_2O, Na_2O, TiO,	Nos	945 (7500+110)	4992	25	124800	4992	0	0	25	124800
b	Physical Analysis										
1	Preparation of thin section	Nos	520	536	10	5360	536	0	0	10	5360
2	Petrographic Studies	Nos	828	1436	10	14360	1436	0	0	10	14360
3	Bulk Density	Nos	24	159	10	1590	159.9	0	0	10	1590
	Sub-Total C					756770		0			756770
D	Preservation of Core										
i	Of Core boxes	Nos		2000	40	80000	2000	0	0	40	80000
ii	Transportation of Core Boxes	Km	8.8	31.0	1250	38750	31	0	0	1250	38750
	Sub-Total D					118750					118750
	Total A+B+C+D					3918950					3918600
E	EXPLORATION REPORT - 2% of (A+B+C+D) or 50000 whichever is more				0	78333		0	0	1	78332
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
	TOTAL A to F					4004932					4004932
	GST 18%										720888
	Grand Total : with GST 18%										4725820
Note						Total					Says 47.26 Lakhs

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 5701/2006-M.I dated- 02/07/2014 and based on actual escalation as per RBI Indices as on 31.03.2017 and the same has been considered for subsequent year
2. Phosphorite rates have been considered as there is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. **Approved Committee Rates with actual escalation as per RBI index as on 31.3.2017 and the same for subsequent year.
4. *** As approved in the 12th meeting of Technical Committee & th meeting of Executive Committee of NMET.
5. **** Rate has taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19.

Mineral Exploration and evaluation 1854(SAC Code: 998340)

Ratan
(BP Ratan)

ANN – SH/1/G3/2

ANNEXURE-II

Table:6.1 TIME SCHEDULE FOR G-3 EXPLORATION for TSVKBLST-3

Sl. No.	Activities	Unit	MONTHS							Total
			1	2	3	4	5		6	
1	Camp Setting	Month	In continuation of G4							1 month
2	Surface Drilling (1 rig)(250meter/ rig/Month)	m.		←	→					200.00
3	Survey Party days (1 Party)	day		←	→					20
4	Geologist Party days (1 Party)	day		←	→					60
5	Sampling Party days, (1 Party)	day		←	→					60
6	Bulk Density Party days, (1 party)	day		↔						10
7	Laboratory Studies	Nos.			←	→				305 No
8	Camp Winding	Month	Continue to G2							-
9	Report Writing (including peer review)	Month				←	→			4 months

ANNEXURE-III

ANNEXURE – SH/2/62/1

Table:II.2 COST ESTIMATE FOR (G-2) EXPLORATION OF LIMESTONE, TSV(K&LST-3

SL No.	Item of Work	Unit	Base	Financial Year (2018-19)			Financial Year (2019-20)			Total	
			Rate	Esc.Rate	Qty.	Amount	Esc. Rate	Qty.	Amount	Qty	Amount
A	DRILLING		1.4.80	(Rs)		(Rs)			(Rs)		(Rs)
1	Surface Drilling (3 Rigs) (DTH)	m		750	950	712500	8190		0	950	712500
2	Transportation	Km	8.8	31	2500	77500	31		0	2500	77500
3	Accomodation	One time /Drill	190325	663719	2	1327438	663719		0	2	1327438
4	Camp Winding	Drill/ month	58595	244910	2	489820	244910		0	2	489820
5	Road Making (Full Tonsen)	Km	7800	18563	50	928150	18563		0	50	928150
	Sub Total A					3535408			0		3535408
B	GEOLOGICAL WORK										
1	Survey Party Days (1 party)	day	1180	5840	30	175200	5840		0	30	175200
2	Geologist Party days (1 party)	day	1841	7802	90	702180	7802		0	90	702180
3	Core Sampling Party crew (partial)	day	535	2809	90	252810	2809		0	90	252810
	Sub-Total B					1130190			0		1130190
C	LABORATORY STUDIES										
a	Chemical Analysis										
1	Pilgrim + Check Samples										
	i) for 9 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (76x5+110)	2580	1045	2696100	2581	0	0	1045	2696100
	ii) for 2 radicals SO_3 & P_2U_5	Nos	140 (28+110)	872	95	82340	872	0	0	95	82340
	iii) External Check Samples for 9 radicals(CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3 & LOI)	Nos	480 (76x5+110)	2580	45	116100	2580	0	0	45	116100
2	Composite Samples										
	i) for 12 radicals (CaO, MgO, SiO_2, Al_2O_3, Fe_2O_3, LOI, SO_3, P_2O_5, MnO_2, K_2O, Na_2O, TiO_2	Nos	548 (78x11+110)	4660	120	559440	4660	0	0	120	559440
b	Physical Analysis										
3	Preparation of thin section	Nos	110	638	10	6380	638	0	0	10	6380
4	Petrographic Studies	Nos	270	1436	10	14360	1436	0	0	10	14360
5	Specific Gravity determination	Nos	32	188.5	20	3770	188.5	0	0	20	3770
	Sub-Total C					3627050		0	0		3627050
D	Preservation of Core										
i)	Cl Core boxes	Nos		2000	190	380000	2000	0	0	190	380000
ii)	Transportation of Core Boxes	Km	8.8	31.0	500	15500	31	0	0	500	15500
	Sub-Total D					395500		0	0		395500
	Total A+B+C+D					8588180		0	0		8588180
E	EXPLORATION REPORT - 1.5% of (A+B+C+D) or 120000 whichever is more				1	128641		0	0		128641
F	PEER REVIEW OF DGR (Lump Sum)	Nos		10000	1	10000	10000	0	0	1	10000
G	Environmental studies										
1	Satellite Imagery Study	Scene	39697	457948.3	1	457948.1868	457948.0	0	0	1	457948
2	Base line Data Collection	(10 km radius area)	161273	694857.4	1	694857.3982	694857.4	0	0	1	694857
3	Chemical Analysis	Nos	257400**	804478	1	804478	804478	0	0	1	804478
4	Report Writing	Nos	50000	50000	1	50000	50000	0	0	1	50000
	Sub Total G					1807284		0	0		1807284
	TOTAL A to H					10533108					10533108
	GST 18%										1896319
	Grand Total with GST 18%										12451427
						Total					Rupees 124.51 Lakhs

Note:

1. Revised Rates of Promotional Work done by MECL on behalf of Govt. of India Vide letter No. 3/7(i) /2006-M.I. dated- 6/2/2014 and based on actual escalation as per IIBI indices as on 31-03-2017 and the same has been considered for subsequent year.
2. Prices/charges rates have been considered as above is no rates for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.
3. Empowered Committee Rates with actual escalation as per IIBI index as on 31.3.2017 and the same for subsequent year.
4. ** As approved in the 12th meeting of Technical Committee & 1st meeting of Executive Committee of NMET
5. *** Rate has been taken from Schedule of Charges of different activities of GSI as on 2014-15 and 40% escalation on the same has been considered for FY 2018-19

Mineral Exploration cost evaluation 1806(SAC Code: 998345)

B.D. Ratnam

B.D. Ratnam

ANN – SH/1/G2/2

ANNEXURE-V

Table:6.1 TIME SCHEDULE FOR G-2 Exploration for TSVKBLST-3

Sl. No.	Activities	Unit	MONTHS Financial Year -2018-19										Total
			1	2	3	4	5	6	7	8	9	10	
1	Camp Setting	Month	Camp will be continued from G-3 exploration										–
2	Surface Drilling(DTH) (2 rig)(500m/1 rig/Month)	m.				←	→						950 m (in 19 BHs)
3	Survey Party days (1 Party)	day				←	→						30
4	Geologist Party days (1 Partie)	day				←	→						90
5	Sampling Party days, (1 Parties)	day				←	→						90
6	Laboratory Studies	Nos.					←	→					1245No
7	Camp Winding	Month						←	→				–
8	Environmental Studies						←	→	→	→	→	→	8 months
8	Report Writing (including peer review)	Month							←	→	→	→	3 months

Ratan
(N.P. Ratan)

RM Indices as on 31-03-2017 and the same has been circulated to all concerned vide letter No. 3701/2005-M1