Ministry of Mines
National Mineral Exploration Trust

Minutes of the 23rd Technical-cum-Cost Committee (TCC) NMET meeting held on 12th and 13th February, 2020 at ICAR Conference Hall, Office Block, National Agriculture Science Centre (NASC) Complex, New Delhi

The 23rd meeting of Technical-Cum-Cost Committee (TCC) of National Mineral Exploration Trust (NMET) was held under the chairmanship of Shri D. Mohan Raj, Addl. Director General & Head, National Mission-II, GSI, Nagpur on 12th and 13th February, 2020 at ICAR Conference Hall, Office Block, National Agriculture Science Centre (NASC) Complex, New Delhi. The list of participants is in **annexure-1**.

Shri Manoj Kumar, Director & Member Secretary, TCC-NMET, welcomed Shri D. Mohan Raj, Additional Director General, National Mission-II, GSI & Chairman, TCC and all the Members of the TCC and participants representing various Notified Exploration Agencies (NEAs). He informed that due to official engagement, Shri Vinay Pal, Assistant Cost Accounts Officer could not attend the meeting and Shri Shashi Kant, Assistant Cost Accounts Officer, NMET would be attending the meeting in his place. The Chairman TCC granted leave of absence to Shri Vinay Pal.

Dr. L. P. Singh, Director & HoD, NMET welcomed all the participants and he emphasised in his opening remarks the need to prioritize the exploration activities of the critical and strategic minerals. He requested NEAs to submit more projects for mineral commodities in which the country is totally dependent on import. He also stressed that the NEAs should make their budgetary projections for NMET funded projects in a more realistic way as NMET's budgetary projection depends on that of NEAs.

Shri D. Mohan Raj, Addl. Director General & Head, National Mission-II, GSI and Chairman of TCC welcomed all the participants and expressed the need to give more emphasis on exploration of concealed and deep-seated minerals. He added that India has sufficient resources cum reserve base of bulk minerals (iron ore, bauxite and limestone) and hence more emphasis is needed for taking up exploration of other deficient minerals to make the country self-sufficient for those commodities also.

The chairman asked all the Notified Exploration Agencies to submit the project proposals only when the exploration block area is free of forest, no Local Law and Order problem, having all statutory clearance so that the project may be technically evaluated for recommendation for approval of EC.

The Chairman TCC, NMET informed that for all the G2 level projects, a certificate should be submitted by State Directorate of Mining and Geology, stating that the block will be put to e-auction after successful completion of exploration work.

The agenda-wise discussion followed.

23.1: Discussion on the Action Taken Report (ATR) of the minutes of 22nd TCC Meeting held on 13th and 14th November, 2019

The Member Sectretary, TCC, NMET presented the ATR of the 22nd TCC meeting held on 13th and 14th November, 2019 at NALCO (HRD Centre for Excellence), NALCO Nagar, Bhubaneswar, Odisha. ATR of various agenda points are annexed in **annexure-2**.

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23.2: Evaluation of new proposals:

23.2.1: General Exploration for Iron Ore near Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan. (G2)

i. Mineral Exploration Corporation Limited (MECL) proposed General Exploration (G2) for iron ore near Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan.
ii. In 22nd TCC meeting, the project was proposed by DGM, Rajasthan and Committee recommended to resubmit the modified proposal as per suggestion of the committee in next TCC Meeting.
iii. DGM, Rajasthan informed that the project will be taken up by MECL.
iv. The committee suggested that boreholes of first level intersection to be drillied in gap areas with 50m vertical depth of intersection as earlier boreholes had been drilled like this and second level boreholes are to be planned with 100m vertical depth of intersection. The total drilling target would be 2825m in 21 boreholes.

The Committee recommended the proposal for approval of General Exploration (G2) for Iron Ore in Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan at estimated cost of Rs. 548.07 Lakhs including GST in time schedule of 18 months for carrying out proposed work and submission of report as per Annexure-3A and 3B.

23.2.2: Preliminary Exploration of potash in Lakhasar-sub basin, North-Western part of Rajasthan, District- Bikaner, Rajasthan. (G3)

i. MECL proposed Preliminary Exploration (G3) for potash in Lakhasar-sub basin, North-Western part of Rajasthan, District- Bikaner, Rajasthan.
ii. The G3 level exploration has already been carried out in 13.107 sq. km area of Lakhasar Sub Basin of 29.90 sq. km.
iii. MECL proposed the exploration in remaining 16.79 sq. km area of Lakhasar Sub-Basin.
iv. The Committee suggested to drill the boreholes (800m x 800m) in the remaining area of the block of 13.107sq km including the boreholes located along the boundary of the block. A total of 10,040m drilling in 15 boreholes is to be carried out (Bh-1, 6, 11, 12, 13, 19, 20, 24, 25, 29, 30, 34, 35, 36 and 38).
v. The area of influence along the block boundary to be taken into consideration for deciding the borehole locations and it is suggested to keep the boreholes 400m away from the boundary.
vi. The Committee suggested that since the thickness and overall depth of the halite sequence is well established, non-core drilling may be taken up upto 25m above the halite sequence and thereafter core drilling in the halite section in each borehole.
vii. The samples for X-ray diffraction and petrographic studies are to be restricted to 30 nos.
viii. The halite cycle to be sampled at 1m interval in each borehole for both the halite cycles.
ix. Each borehole to be properly sealed with cement/sand slurry up to the bottom (entire borehole depth).
x. Borehole Geophysical logging (Gamma ray) and correlation of each halite cycle should be done.

The Committee recommended the proposal for approval of Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, District- Bikaner, Rajasthan at estimated cost of Rs. 1753.53 Lakhs including GST in time schedule of 24 months for carrying out the proposed work and submission of report as per Annexure-4A and 4B.

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23.2.3: General Exploration for Limestone in Sendurai and Maruvathur Block, District- Ariyalur, Tamil Nadu. (G2)

i. MECL proposed General Exploration (G2) for Limestone in Sendurai and Maruvathur Block, District- Ariyalur, Tamil Nadu.
ii. The committee suggested for vertical boreholes at a grid interval of 400m x 400m (11 BHs) drilling up to an averge depth of 60m or up to 2-3m in bedrock below limestone for a total 660m. It would cover an area of 1.54 sq. km on 1 : 4,000 scale with a contour interval of 2 m in a time duration of 10 months for completion of the proposed work.
iii. The area of influence along the block boundary to be taken into consideration for deciding the borehole locations and it is suggested to keep the boreholes 200m away from the boundary.
iv. The committe suggested to go for completion of five boreholes initially following the guideline of spacing in G3 stage of exploration followed by six boreholes to be given as infilling following the guideline of spacing of G2 stage investigation. Therefore a total of 11 boreholes are to be drilled.
v. The NMET Secretariat must ensure that the approval of the EC may be conveyed only after the reciept of a certificate from the Directorate of Mining and Geology, Tamil Nadu stating that the block will be put to e-auction after successful completion of exploration work.

The Committee recommended the proposal for approval of General Exploration (G2) for Limestone in Sendurai and Maruvathur Block, District- Ariyalur, Tamil Nadu at estimated cost of Rs. 133.43 Lakhs including GST in time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure-5A and 5B.

23.2.4: General Exploration for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu. (G2)

i. MECL proposed General Exploration (G2) for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu.
ii. The committee suggested for vertical bore holes at a grid interval of 400m x 400m for 540m drilling (9 BHs) up to averge depth of 60m or up to 2-3m in bedrock below Limestone, covering an area of 1.88 sq. km on 1 : 4,000 scale with a contour interval of 2 m within a time duration of 9 months for completion of the proposed work.
iii. The area of influence along the block boundary to be taken into consideration for deciding the borehole locations and it is suggested to keep the boreholes 200m away from the boundary.
iv. The committe suggested to go for completion of four boreholes initially following the guideline of spacing in G3 stage of exploration followed by five boreholes to be given as infilling following the guideline of spacing of G2 stage investigation. Therefore a total of 9 boreholes are to be drilled.
v. The committee suggested that drill cores of one selected bore hole of limestone blocks to be submitted to National Drill Core Library, GSI, Southern Region and all other cores to be submitted to DGM, Tamilnadu. The DGM Tamil Nadu preserve these cores till the sucessful completion of e-auction of the blocks.
vi. The NMET Secretariat must ensure that the approval of the EC may be conveyed only after the reciept of a certificate from the Directorate of Mining and Geology, Tamil Nadu stating that the block will be put to e-auction after successful completion of exploration work.

The Committee recommended the proposal for approval of General Exploration (G2) for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu at estimated cost of Rs. 136.80 Lakhs including GST in time schedule of 9 months for carrying out the proposed work and submission of report as per Annexure-6A and 6B.

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23.2.5: Reconnaissance Survey for Deepseated mineral prognosis by Geophysical Techniques: Lithospheric structure and relationship with Kimberlite clusters of Kalyandurg-Timmasamudram-Chigicherala, Ananantpur district, Andhra Pradesh. (G4)

i. Dr. Prasanta K Patro, CSIR-NGRI and Dr. S. Srinivas, Suptdg. Geologist, GSI, SR proposed project for Deepseated mineral prognosis by geophysical techniques: Lithospheric structure and relationship with Kimberlite clusters of KTC Block, Anantapur, AP with an objective to derive subsurface structure beneath the Kalyandurg-Timmasamudram-Chigicherla (KTC) Kimberlite cluster and Ramagiri-Penakacherla Schist Belt by deploying different geophysical methods integrated with geological studies for understanding the occurrence of Kimberlite pipes and gold mineralization.
ii. The proposal was earlier discussed in 22nd TCC meeting when Committee had suggested that NGRI and GSI should have an MoU for carrying out the proposed project, defining the roles, responsibility and quantum of work to be carried out by each organization along with names of the geologists/geophysicists to be associated with the project.
iii. The Committee suggested to include the studies related to mineralization of gold and basemetal in the objective.
iv. The profile line for geophysical survey to be extended up to boundary of Cuddapah Basin in the east.

The Committee recommended that the project proposal is technically viable for prognostication of Deepseated mineralisation e.g. Kimberlite pipes and gold-basemetal mineralisation. It was also noted that the proposal is for a collaborative research between a NEA (GSI) and a National Institute (NGRI) involving activities for which SoC rates are not available. Therefore, the committee decided that the funding mechanism to be decided by the Executive committee in its next meeting.

23.2.6: Preliminary (G3) and General Exploration (G2) of Iron Ore in Karauli amalgamated Iron Ore Blocks, District- Karauli, Rajasthan.

i. KIOCL proposed Preliminary (G3) and General Exploration (G2) of Iron Ore in Karauli amalgamated Iron Ore Blocks, District- Karauli, Rajasthan.
ii. DGM, Rajasthan informed that all the blocks are under forest cover.
iii. The committee suggested that State DGM, Rajasthan to obtain the forest clearance first and then only the project proposal will be discussed for mineral exploration under NMET fund.

The Committee asked State DGM, Rajasthan to resolve the issue of forest clearance with Forest department and then only NMET funding can be considered for mineral exploration.

The Committee also instructed to all the Exploration Agencies to accelerate the pending issues of forest clearance in approved projects and to complete the exploration work in time.

23.2.7: General Exploration of Limestone in Reddipalayam amalgamated Limestone Block-2, District- Ariyalur, Tamil Nadu. (G2)

i. KIOCL proposed General Exploration (G2) for Limestone in Reddipalayam amalgamated Limestone Block-2, District- Ariyalur, Tamil Nadu.
ii. The committee suggested for vertical boreholes with a grid interval of 400m x 400m for 620m drilling up to averge depth of 60m or up to 2-3m in bedrock below limestone, covering an area of

0.86 sq. km on 1 : 4,000 scale with a contour interval of 2m within a time schedule of 8 months for completion of the proposed work.

iii. The area of influence along the block boundary is to be taken into consideration for deciding the borehole locations and it is suggested to keep the boreholes 200m away from the boundary.

iv. The committee suggested that drill cores of one selected borehole of limestone blocks to be submitted to National Drill Core Library, GSI, Southern Region, Hyderabad and all other cores to be submitted to DGM, Tamilnadu. The DGM Tamil Nadu preserve these cores till the sucessful completion of e-auction of the blocks.

v. The NMET Secretariat must ensure that the approval of the EC may be conveyed only after the receipt of a certificate from the Directorate of Mining and Geology, Tamil Nadu stating that the block will be put to e-auction after successful completion of exploration work.

The Committee recommended the proposal for approval of General Exploration (G2) for Limestone in Reddipalayam amalgamated Limestone Block-2, District- Ariyalur, Tamil Nadu at estimated cost of Rs. 154.60 Lakhs including GST in time schedule of 8 months for carrying out the proposed work and submission of report as per Annexure-7A and 7B.

23.2.8: General Exploration for Limestone and shale block, District- Solan, Himachal Pradesh. (G2)

i. DGM, Himachal Pradesh proposed General Exploration (G2) for Limestone and shale Block, District-Solan, Himachal Pradesh. It was informed that block area is under forest cover and hence the State DGM was advised to submit the proposal after obtaining forest clearance.

The Committee suggested State DGM to submit the project proposal after obtaining forest clearance for NMET funding.

23.2.9: General Exploration for manganese ore in Pimperkunta block, Bheempur mandal, District- Adilabad, Telangana. (G2)

i. TSMDC proposed General Exploration (G2) for manganese ore in Pimperkunta block, Bheempur mandal, District- Adilabad, Telangana.

ii. The objective of the project is to assess the quantity and quality of Manganese Resource in the block and classify the resources as per UNFC and Minerals (Evidence and Mineral Contents) Rule, 2015 norms.

iii. The Committee suggested to carry out Geological mapping on 1:2000 scale in block area of 0.50 sq. km. A total of 600m drilling was recommended with depth of each borehole to a maximum of 30 m. Initial boreholes may be given following the guideline of spacing of G3 stage of exploration. If the boreholes intersect the mineralized zone with persistent thickness, then the infilling boreholes may be planned following the guidelines of G2 stage of investigation. Further, the committee recommended that behavior of ore mineralization at depth to be traced by giving some deeper boreholes (60m depth).

iv. The progress of the work done would be reviewed before start of the drilling work.

v. The NMET Secretariat must ensure that the approval of the EC may be conveyed only after the reciept of a certificate from the Directorate of Mining and Geology, Telengana stating that the block will be put to e-auction after successful completion of exploration work.

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The Committee recommended the proposal for approval of General Exploration (G2) for manganese ore in Pimperkunta block, Bheempur mandal, District- Adilabad, Telangana at estimated cost of Rs. 157.22 Lakhs including GST in time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure-8A and 8B.

23.2.10: Reconnaissance Survey for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana. (G4)

i. TSMDC proposed Reconnaissance Survey (G4) for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana.
ii. The satellite imagery studies to be carried out for full toposheet (56 N/4) followed by hyperspectral studies to delineate the alteration zone, especially the potasic alteration zones.
iii. Carry out large scale mapping on 1:12,500 scale covering an area of 175 sq. km as many pit as possible.
iv. Since there are scanty outcrops in the proposed area, pitting and trenching is recommended.
v. The Committee suggested to carry out radiometric survey and IP survey in alteration zone.
vi. Committee also advised to drill few boreholes (maximum 5 nos.) with 500m drilling, if analytical results and result of geophysical survey are encouraging.

The Committee recommended the proposal for approval of Reconnaissance Survey (G4) for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana with estimated cost of Rs. 173.17 Lakhs including GST in time schedule of 12 months for carrying out the proposed work and submission of report as per Annexure-9A and 9B

23.2.11: Reconnaissance Survey for Iron Ore after amalgamating all the 8 blocks of North Bailadila block, District-Raigarh, Hurtarai Block, District-Kanker, Rowghat Block, District- Kanker, Dallirajhara Block, District-Balod, Salhewara Block, District- Rajnandgaon, Narayanapur Block, District- Narayanapur, Kanker notified Area Block, District- Kanker, Aturbeda Area Block, District- Kanker, Chhattisgarh. (G4)

i. DGM, Chhattisgarh proposed Reconnaissance Survey (G4) for Iron Ore after considering all the 8 blocks in one proposal as a single programme. Name of the blocks are North Bailadila Area block, District-Raigarh, Hurtarai Area Block, District-Kanker, Rowghat Block, District- Kanker, Dallirajhara Block, District- Balod, Salhewara Block, District- Rajnandgaon, Narayanapur Block, District-Narayanapur, Kanker notified Area Block, District- Kanker, Aturbeda Area Block, District- Kanker, Chhattisgarh.
ii. DGM, Chhattisgarh informed that out of 8 blocks, one block (Salhewara Block, District-Rajnandgaon) has been dropped due to forest area.
iii. The Committee suggested to propose a single programme of G4 stage taking into consideration all the blocks and a single costsheet with all the work components. The geological mapping and sampling in all the blocks to be carried out followed by one scout borehole in each block.

The Committee asked to submit the proposed work components and cost sheet for recommendation to EC for approval.

23.2.12: Review of the Geological Reports of Preliminary Survey (G3) for the bauxite in Dumarguda, Dandkesra North Area, Parpatia Area blocks District- Surguja, Chhattisgarh and upgradation of all the blocks to General Exploration (G2).

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i. DGM, Chhattisgarh presented the work carried out for Preliminary Survey (G3) for the bauxite in Dumarguda, Dandkesra North Area, Parpatia Area blocks District- Surguja, Chhattisgarh.

ii. The projects were approved in 8th EC meeting held on 12th June, 2018 and scheduled to complete by 30th September, 2019.

- **Dumarguda block (G3)**- The exploration work has been completed as per the approved work components and there is no cost overrun.
- **Dandkesra block (G3)**- The exploration work has been completed. The block area has been extended to 2.35 sq. km against approved area of 1.048 sq km and drilling has been done for 365.4m against approved drilling meterage of 180m. There is cost overrun due to increase in mapping area and drilling.
- **Parpatia block (G3)**- The exploration work has been completed. In original approved project, 1750m drilling with 704 nos. of samples (588 nos. of primary samples + 58 check samples+ 58 composite samples) was approved which is not as per the sample collection at 1m interval in each boreholes for laterite and bauxite zone. The drilling of 1540m has been completed and a total of 1301 nos. of samples including check and composite samples were collected. Due to increase in the total no. of samples, there is cost overrun of Rs. 16.94 Lakh.

iii. The NMET Secretariat informed that the final Geological Reports have been submitted without external peer review of the reports.

The committee made following recommendations:

- ***The committee recommended to return all the reports pertaining to the three blocks mentioned above to DGM, Chhattisgarh.***
- ***Geological Reports pertaining to Dumarguda block* (G3) *and Parpatia block* (G3) *should be sent for peer review to experts suggested by NMET Secretariat.***
- ***Geological Report pertaining to Dandkesra block* (G3) *should be modified as per the approved work components within the block area of 1.048 sq. km and then it should be sent for peer review.***

All the three projects to be reviewed in the next TCC after necessary modifications suggested above and by peer reviewers.

23.2.13: Preliminary Exploration for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan. (G3)

i. Department of Mines and Geology, Rajasthan proposed for Preliminary Exploration (G3) for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan.

ii. Department of Mines and Geology, Rajasthan informed that the exploration work will be taken up by MECL and requested the Committee for approval.

iii. The Committee sugessted to carry out detailed mapping on 1:4000 scale at contour interval of 2m and to carry out vertical drilling of a total of 700m.

iv. Committee suggested to plan seven (7 nos.) vertical boreholes. Three boreholes are to be given on the outcrop itself and those boreholes may be drilled upto 5m below the bottom of limestone. Rest of the four boreholes which will be planned towards core of the synform and those boreholes may be drilled upto a maximum depth of 100m.

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The Committee recommended the proposal for approval of Preliminary Exploration (G3) for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan at estimated cost of Rs. 132.52 Lakhs including GST in time schedule of 10 months for carrying out the proposed work and submission of report as per Annexure-10A and 10B.

23.2.14: Heliborne Time Domain EM (TDEM) Survey along with magnetic survey over mineral prospective areas identified from interpretation of legacy data over parts of Odisha, Chattishgarh, Telengana, Andhra Pradesh and Karnataka.

i. RSAS, GSI, Bengaluru proposed Heliborne Time Domain EM (TDEM) Survey along with fixed wing magnetic survey over mineral prospective areas identified by interpretation of legacy data over parts of Odisha, Chhattishgarh, Telengana, Andhra Pradesh and Karnataka.
ii. The committee was informed that the TS-QC Consultant prepared a Detailed Project Report (DPR) on 20th January, 2020 for the proposed Heliborne surveys over identified prospective mineral zones based on interpretation of aeromagnetic and spectrometric data of three blocks H1, H2 and H3.
iii. Thereafter, a meeting with participation of national and international bidders was held on 18th December, 2019 to focus on various technical issues involved for the proposed TDEM heliborne survey over prospective target blocks and prioritization of areas for TDEM/Spectrometric and Magnetic Surveys.
iv. The Committee suggested that the proposal of this project for NMET funding should be submitted for recommendation of TCC only after completing all the formalities including tendering and getting endorsement from the Ministry of Mines (following the procedure adopted for NMET funded for National Aerogeophysical survey program (NAGMP)

The Committee suggested to submit the proposal after all the formalities and endorsement from the Ministry of Mines.

23.3: Review of the progress of ongoing projects:

23.3.1: Review of Rengali Block, District- Bolangir, Odisha. (G4 and G2)

i. MECL presented the work done in Rengali G2 and G4 Blocks for Manganese.
ii. It was informed that for G2 exploration, Geological Report has been submitted for external peer review and a total of 1247 nos. of samples have been analysed for 6 radicals against approved 900 nos. of samples from mineralised zone. An estimated additional cost of **Rs. 10,56,410/-** for analysis of additional 347 nos samples has been sought for approval.
iii. In G2 block, a total of 0.364 million tonnes of Gross and 0.328 million tonnes of Net geological in situ manganese ore resource with average grade of 21.37% Mn, 15.82% Fe & 0.28% P at ≥18 Mn % cut off grade have been estimated by cross-section method. Manganese ore resource of the block is placed at 'Indicated' (332) category as per UNFC system.
iv. MECL also requested for time overrun in G2 exploration of 6 months (up to 30th April, 2020).
v. For G4 exploration, work has been completed and report will be submitted by 31st March, 2020.

The Committee recommends the approval of Rs. 10,56,410/- for additional samples analysis and also timeline extension upto 30th April, 2020 (6 Months) for G2 block for approval of EC with a condition of no further extension.

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The Chairman, TCC-NMET asked all the exploration agencies to inform about the additional work carried out during the exploration activities and same may be put in subsequent TCC meeting for approval.

23.3.2: Review of Tamiya Block, District- Bolangir, Odisha. (G4 and G2)

i. MECL presented the work done in Tamiya G4 and G2 Blocks, District- Bolangir, Odisha.
ii. It was informed that Geological Report has been submitted for G2 block and total of 0.703 mt of Gross and 0.6327 mt Net geological in situ Manganese ore resource have been estimated with average grade of 23.04% Mn at ≥18 Mn % cut off grade by cross section method. Manganese ore resource of the block is placed at 'Indicated' (332) category as per UNFC system.
iii. For G4 block, work is in progress and geological report will be submitted by 31st March 2020.

The Committee was satisfied with work carried out and asked to submit the geological report in time.

23.3.3: Review of Babja Block, District- Bolangir, Odisha. (G4 and G2)

i. MECL presented the work done in Babja G2 and G4 Blocks, District- Bolangir, Odisha.
ii. It was informed that in G2 block, drilling, samples collection and chemical analysis are under progress. Due to local law and order problem and delay in forest clearance, there is time overrun of 11 months.
iii. In G4 block, Geophysical Survey work has been completed and due to local law and order problem work was suspended. Forest clearance has been received and work will be resumed soon. There is time over run of 12 months.

The Committee recommended for timeline extension upto 31st July, 2020 (11 months) for G2 block and 30th October, 2020 (12 months) for G4 block with a condition of no further extension will be granted and recommended for approval of EC.

23.3.4: Review of Biarpalli Block, District- Bolangir, Odisha. (G4 and G2)

i. MECL presented the work done in Biarpalli G2 and G4 Blocks, District- Bolangir, Odisha.
ii. It was informed that in G2 block, drilling, samples collection and chemical analysis are under progress. Due to local law and order problem and delay in forest clearance, there is time overrun of 9 months.
iii. In G4 block, Geophysical Survey work has been completed and due to local law and order problem work was suspended. Forest clearance has been received and work will be resumed soon. There is time overrun of 12 months.

The Committee recommended for timeline extension upto 30th September, 2020 (9 months) for G2 block and 30th October, 2020 (12 months) for G4 block with a condition that no further extension will be granted and recommended for approval of EC.

23.3.5: Review of Dungripalli Block, District- Bolangir, Odisha. (G2)

i. MECL informed that exploration work has not been initiated due to cotton cultivation in the block area and requested for timeline extension for 6 months.

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The Committee recommended for timeline extension upto 31st January, 2021 with a condition that no further extension will be granted and recommended for approval of EC.

23.3.6: Review of Nandgaon-Gora-Mahewa Block, Chhatarpur, MP.

i. NMDC presented the work done in Nandgaon-Gora-Mahewa Block, Chhatarpur, MP.
ii. It was informed that on the basis of Satellite imagery studies and aeromagnetic data, four potential zones have been identified. Out of these, ground validation in zone-1, 3 and 4 was completed and potassic alteration reported. The area is under cultivation so there will be time overrun till June, 2020.
iii. The analysis of samples from well cutting indicated anomalous Cu values.
iv. The Committee recommended completion of the remaining work, preparation of an alteration zone map after collecting radiometric data from GSI and based on the work carried out so far, submit the geological report with recommendations, if any.

The Committee recommended for timeline extension upto 30th June, 2020 with a condition that no further extension will be granted and recommended for approval of EC.

23.3.7: Review of Bukkapatna Block (SR-KAR-09), Tumkur District, Karnataka.

i. NMDC informed that the Geological Report has been submitted and requested for reappropriation of work components carried out during exploration. It was also informed that there is no cost overrun in approved cost of the project.

The committee asked to submit revised cost sheet for all the projects which required reappropriation of work components in next TCC meeting for approval.

23.3.8: Review of Udbur Block, District- Mysore, Karnataka.

i. KIOCL presented the work done in Udbur Block, District- Mysore, Karnataka.
ii. It was informed that all the geological work has been completed and due to delay in chemical analysis and petrographic studies, there is time overrun up to 30th June, 2020 (3 months).

The Committee recommended for timeline extension upto 30th June, 2020 with a condition that no further extension will be granted and recommended for approval of EC.

23.3.9: Review of Reconnaissance Survey (G4) for Limestone and Dolomite in Neerbudhihal Blocks-East and West, District- Bagalkote, Karnataka.

i. KIOCL presented the work carried out for limestone and dolomite in Neerbudhihal Blocks-East and West, District- Bagalkote, Karnataka.
ii. It was informed that exploration work is under progress as per approved timeline.

The Committee was satisfied with work done and asked to submit the geological report in time.

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23.3.10: Review of Khandadhar Block (47 sq. km), District- Sundergarh, Odisha (G4), Khandadhar Block (2.93 sq. km), District- Sundergarh, Odisha (G2) and Khandadhar Sub-block-A, District- Sundargarh, Odisha (G2)

i. OMECL presented the work done and informed that due to delay in forest clearance, exploration work has been suspended in all the blocks.
ii. The Committee suggested to get forest clearance and submit the proposal for drilling 500m (5 BHs) instead of Geophysical Survey work.

The Committee asked to accelerate the process to get forest clearance in all approved projects to complete the exploration work in time.

23.4: Additional Agenda

23.4.1: Additional cost for Baseline Environment Studies for approved project- Adhanakurichi Block, Sendurai Taluk, District- Ariyalur District, Tamil Nadu for G2 level of exploration for Limestone combining Althiyur Block and Adhanakurichi Block.

i. MECL informed that the the project was approved in 15th EC Meeting, held on 28th November, 2019 with estimated cost of Rs. 115.92 Lakh without baseline environmental studies.
ii. The cost of Baseline Environment Studies will be Rs. 23,57,266/- including GST.

The Committee recommended the proposal of additional estimated cost of Rs. 23,57,266/- including GST for Baseline Environment Studies. The detail of cost is given in annexure-11

23.4.2: Additional cost for geological report writing of approved project- General Exploration (G2) for Magnesite in Selu Block District- Udaipur, Rajasthan.

iii. MECL informed that the project was approved in 15th EC Meeting, held on 28th November, 2019 with estimated cost of Rs. 303.88 Lakh without the charges for preparation of Geological Report.
iv. The cost for the preparation of the Geological Report will be Rs. 2,72,858/- including GST.

The Committee accorded the approval of Rs. 2,72,858/- for preparation of Geological Report of the project.

23.4.3: Clarification regarding drilling in Deravad Area (Extension of Reconnaissance Survey (G4) for Copper (Part of NMET Block ID: WR-RAJ-02), District- Udaipur, Rajasthan).

i. TCC in its 22nd meeting, recommended the project for approval with suggestion that detailed trenching work to be taken up across the strike, collection of channel/groove samples at regular interval depending on the geology, structure to get the strike continuity of these lodes on surface. Based on the encouraging values of the trench values (if any) and correlation of geophysical data three (3) conditional boreholes to be drilled in the North and South Blocks as extension to G4 stage of exploration.
ii. MECL informed that trenching may not be useful as surface projection falls in cultivated land and trenching & channel sampling will be carried out in southern part of the area.

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iii. MECL is planning to drill 3 conditional BHs (PBH-01 to know the depth of the lode and PBH-02 & PBH-03) on either side at a distance of 50m from first section to know the strike continuity.

The Committee agreed with proposal for conditional BHs and accorded the approval to drill 3 boreholes.

23.4.4: Borehole (MGRP-15) closure in Recherla Block, Godavari Valley Coal Field, Andhra Pradesh.

i. MECL informed that Borehole No. MGRP-15 (Proposed Point P-34) in Recherla Coal Block commenced on 19.08.2019 and the current depth of the borehole is 1054.00m.
ii. MECL is facing drilling difficulty due to strata conditions and structural disturbance.
iii. The target seam of the borehole is Seam A, currently the borehole has been drilled up to Seam C and 3 m parting below Seam C has also been intersected.
iv. The tentative closure depth of the borehole is 1155m and the borehole has been drilled up to 1054m i.e., about 91 percent of the total depth.

The Committee accorded approval for premature closer of the borehole.

23.4.5: Time extension in Malangtoli H-block, Iron Ore Deposit, Districts: Sundargarh and Kendujhar, Odisha.

i. MECL informed that 2183.10m drilling in 36 BHs falling in non forest area has been completed against total approved 3330m drilling in 111 BHs.
ii. The exploration work was scheduled to complete by 20th June 2019.
iii. The remaining 75 BHs fall in forest area and forest permission is awaited to continue the exploration work.
iv. Bills raised against completed drilling work are pending due to time overrun.

The Committee recommended for timeline extension upto 30th May, 2020 and sugessted to get the forest clerance for completion of the exploration work.

23.4.6: Time extension in Nahardih-Madhaipur Block for Limestone, Raipur, Chhattisgarh. (G2/G3)

i. MECL informed that Geological Report has been submitted but there was a delay of 2 months (till 31st August 2018) for Limestone exploration in Nahardih-Madhaipur Block for final bill settlement.

The Committee recommended for timeline extension upto 31st August, 2018 for settlement of the final bill and recommended for approval of EC.

23.4.7: Time extension in Jamodi-Mahanna Limestone Block (Part-B), District- Satna, Madhya Pradesh. (G2)

i. MECL informed that Geological Report has been submitted and there is time overrun of 2 months (till 29th February, 2020) in Jamodi-Mahanna Limestone Block (Part-B), for Limestone for final bill settlement.

The Committee recommended for timeline extension upto 29th February, 2020 with a condition of no further extension will be granted and recommended for approval of EC.

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23.4.8: Additional cost in approved project of Limestone in Cluster-1 (G4) Mellacheruvu, Mallareddy Gudem and Yepal Madhavaram Blocks, District- Suryapet, Telangana.

i. TSMDC informed that there is additional drilling of 14m and additional chemical analysis of 15 samples in Cluster-1 (G4) Mellacheruvu, Mallareddy Gudem and Yepal Madhavaram Blocks, District- Suryapet, Telangana.
ii. Due to increase in work components, additional cost Rs. 1,24,272/- has been incurred and may be approved for the bill payment.

The Committee accorded the approval of Rs. 1,24,272/- for additional drilling and samples analysis.

23.4.9: Cancellation of approved projects

i. CPMDI informed that in 9th EC meeting, three coal projects were approved.
   - Patehpur Block, Mand-Raigarh Coalfield, Chhattisgarh.
   - Merkhi West Block, Shadol Coalfield, Madhya Pradesh.
   - Ameliha Block, Shadol Coalfield, Madhya Pradesh.

   It was informed by CPMDI that due to non-admissability of administriative charges, it can't take the exploration work and requested to cancel the approved projects.

ii. KIOCL informed that two iron ore projects of Tamil Nadu were approved in 4th and 8th EC meeting respectively, but due to local Law and Order problem exploration work has not been initiated till date.
   - Tirumankaradu areafor Iron Ore, District- Tirupur, Tamil Nadu. (4th EC meeting)
   - Poomedu Iron Ore Block, Tirpur & Karur Districts, Tamil Nadu. (8th EC meeting)

   DGM, Tamil Nadu asked to cancel the projects as the problem still persists.

iii. NTPC informed the Committee that a limestone project in Khargone Block, Khargone district, Madhya Pradesh was approved in 7th EC meeting held on 12th March, 2018. The project could not be initiated yet as there is no in-house capacity for carrying out non-fuel mineral exploration work. During technical evaluation of tender, no bidder qualified as per NIT. It is requested to drop and cancel the project.

The Committee recommended for approval of EC to cancel all the six approved projects. Further, as decided in the last EC meeting, CMPDI will not be permitted to resubmit the proposal in the cancelled blocks. **The NMET secretariate must note that these projects should not be taken up for evaluation and recommendation to EC in future.**

23.4.10: Time extension in project approved for RSAS GSI, Bengaluru "Consultant for interpretation of airborne legacy data for follow-up heliborne surveys".

i. RSAS, GSI informed that interpreted airborne legacy data has been completed and for follow-up Heliborne EM surveys, DPR has been submitted for tendering.
ii. NMET secretariat informed that the project was approved in 9th EC meeting held on 8th August 2018 with estimated cost Rs. 337.90 Lakh and timeline of 12 months. The sanction order was issued on 20th August, 2018. However, the Agreement between GSI was signed for 15 months.
iii. The Committee asked RSAS, GSI to inform NMET Secretariat about the timeline extension of all the projects executed by GSI so that it may be put up to EC for information.

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The Committee recommended for timeline extension upto 30th April, 2020.

23.4.11: Time extension in approved for projects of DGM, Nagaland.

i. DGM, Nagaland informed that exploration work has been completed in both the projects-
   - Salumi block, Kiphire District, Nagaland for limestone
   - Mollen-Jopi-Ziphu and adjoining area, Naga Hills Ophiolite, Phek District, Nagaland for Magnetite and Ni-Co-Cr

ii. There is time overrun in the projects and requested for timeline extension till 31st March 2020.

The Committee recommended for timeline extension upto 31st March, 2020 with a condition that no further extension will be granted and recommended for approval of EC.

23.4.12: Financial year wise phasing of work plan/milestone along with estimated cost for different financial years.

i. NMET Secretariat asked all the exploration agencies to submit the cost sheet for all the approved projects for which they are going to raise the bills for making payments.

ii. Financial year wise phasing of work/milestone along with estimated cost to be submitted to NMET Secretariat by 31st March 2020.

iii. If year-wise phasing is not provided the raised bills will be restricted proportionately as per approved date of sanction of the project and applicable SoC.

Meeting ended with a vote of thanks by the Member Secretary, TCC, NMET.

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Mineral Exploration Projects/Blocks recommended by 23rd TCC held on 12th and 13th February, 2020

S. No.	Project/Block Name	Commodity	Stage	Duration	Approved Cost (₹ Lakhs including GST)
Implementing Agency: MECL					
1	General Exploration (G2) for Iron Ore near Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan.	Iron Ore	G2	18 months	**548.07**
2	Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, Bikaner district, Rajasthan.	Potash	G3	24 months	**1753.53**
3	General Exploration (G2) for Limestone in Sendurai and Maruvathur Block, District- Ariyalur, Tamil Nadu.	Limestone	G2	10 months	**133.43**
4	General Exploration (G2) for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu.	Limestone	G2	9 months	**136.80**
5	Preliminary Exploration (G3) for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan.	Limestone	G3	10 months	**132.52**
Implementing Agency: KOICL					
6	General Exploration (G2) for Limestone in Reddipalayam amalgamated Limestone Block-2, District- Ariyalur, Tamil Nadu.	Limestone	G2	8 months	**154.60**
Implementing Agency: TSMDC					
7	General Exploration (G2) for manganese ore in Pimperkunta block, Bheempur mandal, District- Adilabad, Telangana.	Manganese	G2	12 months	**157.22**
8	Reconnaissance Survey (G4) for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana.	Molybdenum	G4	12 months	**173.17**
				Total	**3189.34 Lakhs**

Additional cost recommendation/approval by 23rd TCC

1. Additional cost of samples in Rengali (G2) Block, District- Bolangir, Odisha- Rs. 10,56,410/- including GST.
2. Additional cost of Baseline Environment Studies for approved project- Adhanakurichi (G2) Block, Sendurai Taluk, District- Ariyalur District, Tamil Nadu- Rs. 23,57,266/- including GST.
3. Additional cost for Geological Report writing of approved project- General Exploration (G2) for Magnesite in Selu Block District- Udaipur, Rajasthan- Rs. 2,72,858/- including GST.
4. Additional cost in approved project of Limestone in Cluster-1 (G4) Mellacheruvu, Mallareddy Gudem and Yepal Madhavaram Blocks, District- Suryapet, Telangana- Rs. 1,24,272/- including GST.

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23rd Technical-cum-Cost Committee (TCC) NMET held at Conference Hall, Office Block, National Agriculture Science Centre (NASC) Complex, ICAR on 12th and 13th February, 2020 New Delhi

(P. K. Maharana)
AGM, NALCO
Member, TCC, NMET

(Naeem Ahmad)
General Manager-Exploration
(Retd.), CMPDI Ltd.
Member, TCC, NMET

(Dr. Anjani Kumar)
Dy. General Manager
(Exploration) & HoD-Planning
(Retd.), MECL
Member, TCC, NMET

(H. K. Verma)
DGM (Finance), HCL
Member, TCC, NMET

(Vinay Pal)
Assit. Cost Account Officer, GSI,
Member, TCC, NMET

(J. V. Ramarao)
Dy. Director General (GP), GSI
Member, TCC, NMET

(Dr. Manoranjan Mohanty)
Dy. Director General (Retd.)
Geological Survey of India
Member, TCC, NMET

(Ranjan Kumar Sinha)
Controller General (Retd.)
Indian Bureau of Mines
Member, TCC, NMET

(P. Tarafdar)
Dy. Director General (Retd.)
Geological Survey of India
Member, TCC, NMET

(Dr. L. P. Singh)
Director, NMET, MoM
Member, TCC, NMET

(Manoj Kumar)
Director,
Geological Survey of India
Member Secretary, TCC, NMET

(D. Mohan Raj)
ADG & NM H-II, GSI and
Chairman, TCC, NMET

Annexure-1

List of Participants in 23rd Technical-cum-Cost Committee (TCC) NMET, held on 12th and 13th February, 2020 at Conference Hall, Office Block, National Agriculture Science Centre (NASC) Complex, ICAR, New Delhi

S. No.	Name & Designation	Organization/Contact No./ Email	Remarks
1	Shri D. Mohan Raj, ADG, NM-II and Chairman, TCC, NMET	Geological Survey of India, Nagpur 9765980957/hodnm2@gsi.gov.in	In-Chair
2	Shri P. Tarafdar Dy. DG (Retd.)	Geological Survey of India 9503088847/tarafdar.pradipta@gmail.com	Member
3	Shri Ranjan Kumar Sinha, Controller General (Retd.)	Indian Bureau of Mines 9421777637sinhark57@rediffmail.com	Member
4	Dr. Manoranjan Mohanty, Dy. Director General (Retd.)	Geological Survey of India, 9483511287/manoranjanmoha@gmail.com	Member
5	Shri K. C. Sahoo, DDG and HoD, WR	GSI, WR, Jaipur 9437977007/kahnu_Sahoo@rediffmail.com	Invitee
6	Dr. Anjani Kumar, DGM (Exp) & HoD-Planning (Retd.)	MECL, 9975350576 anjani_kumar1957@yahoo.co.in	Member
7	Shri Naeem Ahmad, General Manager -Exploration (Retd.)	CMPDI Ltd./ 8588092153 ahmadnaeem17@yahoo.co.in	Member
8	Shri J. V. Ramarao, Dy. Director General (GP)	Geological Survey of India, Hyderabad 944691284/rarajammi@rediffmail.com	Member
9	Dr. L. P. Singh Director and HoD, NMET	NMET, Ministry of Mines, 9971839549/nmet-mines@gov.in	Member
10	Shri Manoj Kumar Director	NMET, Ministry of Mines, 8968443417/nmet-tcc@gov.in	Member Secretary
11	Shri Maneesh Khar, Director	NMET, Ministry of Mines, 9462036108/nmet-mines@gov.in	NMET
12	Shri P. K. Maharana, AGM, NALCO	NALCO, Bhubaneswar 8500669500/pmaharana@rediffmail.com	Member
13	Shri H. K. Verma DGM (Finance), HCL	HCL, Kolkata 9752860983/verma_hk@hindustancopper.com	Member
14	Shri Subhash Kumar, Senior Geologist	NMET, Ministry of Mines 9868302624/nmet-mines@gov.in	NMET
15	Shri Shashi Kant Assistant Cost Account Officer	NMET, Ministry of Mines 011-23071006/nmet-mines@gov.in	NMET
16	Dr. Prasanta K Patro Sr PR Scientist	CSIR-NGRI 8985417644/patrobpk@ngri.res.in	NGRI
17	Dr. S. Srinivas Suptdg. Geologist	GSI, SR, Hyderabad 8105316110/srinivas.somenchi@rediffmail.com	GSI
18	Shri Ajay Sharma Addl. Director, Geology	Dept. of Mines & Geology, Rajasthan 9414277272/adgjaipur.mg@rajasthan.gov.in	DGM, Rajasthan
19	Shri S. N. Dodia, ADG, Geology	Dept. of Mines & Geology, Rajasthan/9414737417	DGM, Rajasthan
20	Shri B. P. Raturi HoD (Exploration)	MECL, Nagpur 9422806417/bpratan100@yahoo.in	MECL
21	Dr. S. Kamalakaram Sr. Manager (Geology)	MECL, Nagpur 9370621725/drskumprbh@gmail.com	MECL
22	Shri Saurabh Vivek Assit. Manager (Geology)	MECL, Nagpur 9545425923/saurabh.12181@gmail.com	MECL

23	Shri M. W. Wadaskar Sr. Manager (Geology)	MECL, Nagpur manojwadaskarmecl@gmail.com	MECL
24	Shri G. S. Dhami DGM (Geophysics)	MECL, Nagpur gulzarsinghdhami@gmail.com	MECL
24	Shri K. Rajasekhar Reddy General Manager	TSMDC Ltd. 8008558580/tsmdcltd@gmail.com	TSMDC
26	Shri M. S. Jairam (Retd.) DDG, GSI, Tech Consultant	TSMDC Ltd. tsmdcltd@gmail.com	TSMDC
27	Shri Shailesh Verma Deputy Director (Geology)	DGM, Chhattisgarh shaileshverma040@gmail.com	DGM, Chhattisgarh
28	Shri Kailash Dongre Joint Director (Geology)	DGM, Chhattisgarh kailashdongre.kd@gmail.com	DGM Chhattisgarh
29	Shri Deepak Kosre Dy. Director (Geology)	DGM, Chhattisgarh 9424214734	DGM Chhattisgarh
30	Shri C. S. Bhardwaj Dy. Director (Geology)	DGM, Chhattisgarh 9424214734	DGM Chhattisgarh
31	Shri Anil Kumar Rana, Geologist	DGM, Himachal Pradesh/9418018811	DGM, HP
32	Shri Suresh Bhardwaj Assistant Geologist	DGM, Himachal Pradesh 9418625341	DGM, HP
33	Shri M. K. Somasekar Additional Director	Dept. of Geology & Mining, Tamil Nadu 9442515188	DGM Tamil Nadu
34	Shri Sundeepta Sundar Parida, Assistant Geologist	Dept. of Geology & Mining, Tamil Nadu 8658333444/itndgmnmet@gmail.com	DGM Tamil Nadu
35	Shri Vasudha Chandra S Dy. GM/ME	KIOCL Ltd. Bengaluru 9900789115/bmed@kiocltd.com	KIOCL
36	Shri Shiva Kumar M SM (ME)	KIOCL Ltd. Bengaluru 9481444686/bmed@kiocltd.com	KIOCL
37	Shri Manjunath K. G. Geologist	KIOCL Ltd. Bengaluru 9035334934/ bmed@kiocltd.com	KIOCL
38	Shri Lohith Kumar D. R Geologist (Exploration)	KIOCL Limited	KIOCL
39	Shri Swaminathan S. Sr. Manager (Geology)	NMDC Ltd. Hyderabad 9652938385/swaminathan.sm@gmail.com	NMDC
40	Dr. K. Shriram Guru Sr. Manager (Geology)	9502176080 NMDC Ltd. Hyderabad	NMDC
41	Shri Panchanan Das Manager (Geology)	8374986796 NMDC Ltd. Hyderabad	NMDC
42	Dr. Prashant Sharma DGM (chemical)	9491067959 NMDC Ltd Hyderabad	NMDC
43	Shri T. Perumal, DGM (Geology)	NTPC Noida	NTPC
44	Shri Pawan Kumar Senior Geologist	NMET, Ministry of Mines nmet-mines@gov.in	NMET
45	Smt Rupa Kundu Senior Geologist	NMET, Ministry of Mines nmet-mines@gov.in	NMET
46	Shri P. C. Das Suptdg. Geophysicist	RSAS, GSI, Bangalore 9483623603/daspumach@yahoo.co.in	GSI
47	Shri Yogesh Sharma GM (BD & P/E)	MECL, New Delhi 9810163792/yogesh21@hotmail.com	MECL

Annexure-2

Action Taken Report of 22nd TCC held on 13th and 14th November at NALCO, Bhubaneswar

Agenda No	Agenda Point	TCC Recommendation	Action Taken
NMET Secretariat 22.2.5, 22.2.6, 22.2.7, 22.2.8	General Exploration for Limestone in following blocks of Sendurai Taluk, Ariyalur District, Tamil Nadu. (G2) • Adanakurichi Block, • Alathiyur Block • Anandwadi Block • Unjini Block	The Committee recommended all four proposals for approval with condition that "The NMET secretariat must ensure that the approval of the EC may be conveyed only after the receipt of a certificate from the Directorate of Mining and Geology, Tamil Nadu regarding feasibility for e-auction of the block after successful completion of exploration work".	Complied
NMET/KIOCL 22.2.10	General Exploration for Limestone in Reddipalaiyam Amalgamated Block, Ariyalur district, Tamil Nadu. (G2)	The NMET secretariate should ensure that before conveying the approval of the EC, a certificate from the DGM, TN regarding feasibility for e-auction of the block after successful completion of exploration work in that block is obtained.	Complied
DGM Rajasthan 22.2.12	General Exploration for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan. (G2)	The Committee recommended to resubmit the modified proposal as per the suggestion in next TCC Meeting	22.2.12: - Revised proposal of exploration (G2 level) for limestone in Maonda block, Tehsil Neemkathana, District Sikar are under preparation.
RSAS GSI. Bengaluru 22.3.1	Review of interpreted airborne legacy data and follow-up Heliborne EM surveys. Revised estimated cost for engaging TS-QC Consultant for the project	The Committee suggested to include the already explored mineral exploration blocks and all their extension and to find out new target regions for further exploration.	It is proposed to conduct heliborne TDEM survey as a pilot program covering thirteen identified target mineralized zones of H1, H2 and H3 as mentioned above, in the 1st phase of heliborne survey to concentrate on high priority targets.
RSAS GSI. Bengaluru 22.3.1	Review of interpreted airborne legacy data and follow-up Heliborne EM surveys. Revised estimated cost for engaging TS-QC Consultant for the project	The Committee suggested to include the already explored mineral exploration blocks and all their extension and to find out new target regions for further exploration.	It is proposed to conduct heliborne TDEM survey as a pilot program covering thirteen identified target mineralized zones of H1, H2 and H3 as mentioned above, in the 1st phase of heliborne survey to concentrate on high priority targets.
TSMDC 22.3.9	Limestone Projects in 8 clusters for G4 exploration.	The committee asked to submit the Geological Report as per the prescribed format and considered timeline extension up to 31st January, 2020.	Limestone exploration work has completed and finalized the Geological Report, same will be submitted to the Committee.
DGM Chhattisgarh	Chendradadar Block,	The committee asked to start the	Work started on 05/11/2019

22.3.10 22.3.11 22.3.12 22.3.13 22.3.14	District- Kabirdham, Chhattisgarh. (G3) Lurena Block, District- Surguja, Chhattisgarh. (G3) Gopaltola (Salhewara) Block, District- Rajnandgaon, Chhattisgarh. (G4) The 8 blocks for G4 exploration. Murtadand Block, District- Surguja, Chhattisgarh. (G3)	exploration work and intimate to the NMET Secretariat. The committee asked to start the exploration work and intimate to the NMET Secretariat. The committee asked to start the exploration work and intimate to the NMET Secretariat. The Committee asked to submit a fresh proposal amalgamating all the 8 blocks for G4 exploration. The committee asked to start the exploration work after forest clearance and intimate to the NMET Secretariat.	Work started on 21/10/2019 Work not started due to non-availability of Forest Permission 07 blocks are being presented as fresh proposals. One (Salehwara Block) dropped. Efforts are on to start work soon.
NMH-II GSI Nagpur 22.4.9	Additional sampling in Ranibennur Block, (SR-KAR-08) District: Haveri & Davanagere, Karnataka (G4).	The Committee suggested National Mission-II, GSI, Nagpur to circulate the GSI SOP/Guidelines of Mission-IIB (Natural Energy Resources)	

General Exploration (G2) for Iron Ore in Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan

S. No.	Item of Work	Unit	Base Rate 01.04.1990	FY 2020-21			FY 2021-2022			Total	
				Esc. Rate	Qty.	Total	Esc. Rate	Qty.	Total	Total	Amount
A	**DRILLING**										
1	Surface Drilling (7 rigs) *	m	2,551	10,910	2,825	3,08,20,750	10,910	-	-	2,825	3,08,20,750
2	Transportation (1800/rig)	Km	8.80	35	3,600	1,26,000	35	-	-	3,600	1,26,000
3	Accommodation (One time/ Drill)	Nos	1,85,925	7,33,958	2	14,67,916	7,33,958			2	14,67,916
4	Camp Setting & Winding	Nos	68,606	2,70,829	2	5,41,658	2,70,829	2	5,41,658	4	10,83,316
5	Road Making (Hilly Terrain)	Km	7,800	30,791	20	6,15,820	30,791	-	-	20	6,15,820
	Sub Total A					**33,572,144**			**5,41,658**	-	**3,41,13,802**
B	**GEOLOGICAL WORK**										
1	Survey Party days (1 party)	day	1,180	6,445	70	4,51,150	6,445	-	-	70	4,51,150
2	Geologist Party days (1 party)	day	1,541	8,590	300	25,77,000	8,590	30	2,57,700	330	28,34,700
3	Bulk Sampling Party days (1 party)	day	2,566	14,752	30	4,42,560	14,752	-	-	30	4,42,560
4	Core Sampling Party days (1 party)	day	525	3,078	300	9,23,400	3,078	30	92,340	330	10,15,740
	Sub Total B					**43,94,110**			**3,50,040**	-	**47,44,150**
C	**MINING WORK**									-	
1	Pitting (1m x 1m x 1m), 5 pits	day	395	1,856	90	1,67,040	1,856	-	-	90	1,67,040
	Sub Total C					**1,67,040**			-	-	**1,67,040**
D	**LABORATORY STUDIES**									-	
1	**Chemical Analysis**									-	
	i) Primary & Check samples									-	
	a. Primary Samples: For 6 radicals Fe, SiO_2 & Al_2O_3, P,S & LOI	Nos	490 (110 +76x5)	2,832	700	19,82,400	2,832	200	5,66,400	900	25,48,800
	b. Internal Checks: For 6 radicals Fe, SiO_2 & Al_2O_3, P,S & LOI		490 (110 +76x5)	2,832	35	99,120	2,832	10	28,320	45	1,27,440
	b) External Check Samples from NABL Labs for 6 radicals Fe, SiO_2 & Al_2O_3, P,S & LOI	Nos	490 (110 +76x5)	2,832	70	1,98,240	2,832	20	56,640	90	2,54,880
	ii) Composite Samples									-	
	a) Composite Samples for 7 radicals (Fe%, SiO_2%, Al_2O_3%, P%, Mn%, S% & V_2O_5%)	Nos	566 (110+76*6)	3,273	40	1,30,920	3,273	45	1,47,285	85	2,78,205
	iii) ICPMS (22 trace elements) **	Nos		7,602	-	-	7,602	-	-		
2	**Physical Analysis**									-	
i)	Preparation of thin section	Nos	100	589	-	-	589	-	-	-	-
ii)	Petrographic Studies	Nos	228	1,553	-		1,553	-	-	-	-
iii)	Preparation of polished section	Nos	100	589	-	-	589			-	-
iv)	Mineragraphic Studies	Nos	364	2,210			2,210			-	-
v)	Bulk Density	Nos	32	205	-		205	10	2,050	10	2,050
vi)	a) X-RD Studies on composite	Nos	1,137	6,187	-	-	6,187	-	-	-	-
3	**Beneficiation Study**									-	
i)	Transportation of Beneficiation Samples		8.80	35	-		35	1,800	63,000	1,800	63,000
ii)	Beneficiation Study ***		2,89,327	2,89,327	-	-	2,89,327	1	2,89,327	1	2,89,327
	Sub Total D					**24,10,680**			**11,53,022**		**35,63,702**

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E	**Preservation of Core**											
i)	GI Core boxes	Nos.		2,000	700	14,00,000	2,000	-	-	700	14,00,000
ii)	Transportation of Core Boxes	Km	8.80	35	-	-	35	300	10,500	300	10,500
	Sub Total E					**1,400,000**			**10,500**	-	**14,10,500**
	Total A+B+C+D+E					**41,943,974**			**2,055,220**	-	**4,39,99,194**
F	**EXPLORATION REPORT - 1% of (A+B+C+D+E) or Rs. 1,75,000 whichever is more**									1	**4,39,992**
G	**External Peer Review of Geological Report**									1	**10,000**
H	**Environmental Studies**										
1	Satellite Imagery Study	Scene	99,697	5,09,013	-	-	5,09,013	1	5,09,013	1	5,09,013
2	Baseline data collection(10km radius area)		1,51,273	7,72,339	-	-	7,72,339	1	7,72,339	1	7,72,339
3	Chemical Analysis	Nos	25,7400#	6,66,331	-	-	6,66,331	1	6,66,331	1	6,66,331
4	Report writing	Nos	50,000	50,000	-	-	50,000	1	50,000	1	50,000
	Sub Total H					-			**19,97,683**	-	**1,997,683**
	Grand Total : A to H					**4,19,43,974**			**44,92,895**	-	**4,64,46,869**
I	**GST @ 18%**					75,49,915			808,721	-	83,60,436
J	**GRAND TOTAL**					4,94,93,889			53,01,616	-	548,07,305
Notes:											**Say 548.07 Lakh**
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 31-03-2019 and the same has been considered for subsequent year.										
2	* Gool Committee rates for Iron ore are not available , hence Copper rates are taken on actual escalation as per RBI indices as on 31-03-2019										
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										
4	*** IBM Rate										
5	# Analytical report (Nityanand Committee)										
	$ No escalation is taken for financial years. Billing will be done as per escalated rate once finalised										
GST	**Mineral Exploration and evaluation 18%(SAC Code: 998343)**										

Annexure-3B

S. No.	Activities	Unit	Months (2020-21)												Months (2021 22)					
			April	May	June	July	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	June	July	Aug	Sept
1	Camp Setting	Month																		
2	Surface Drilling (2 Drills)	Metre																		
3	Survey Party days (1 Party)	Days																		
4	Geologist Party days (1 Party)	Days																		
5	Sampling Party days																			
i.	Core Sampling (1 party)	Days																		
ii.	Bulk Sampling (1 party)	Days																		
6	Laboratory Studies	Number																		
7	Beneficiation Studies	Month																		
9	Camp Winding	Month																		
10	Baseline Environmental Studies	Month																		
11	Report Writing	Month																		
NOTE-																				
1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.																				
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem will be additional to above time line subject to the approval of time line by EC.																				

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Annexure-4A

Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, District- Bikaner, Rajasthan

S. No.	Item of Work	Unit	Base Rate as on 1.4.90	Rate as on 31st march 2019	Escalated rates (2020-21)				Escalated rates (2021-22)			
					Esc. Rate (Rs)	Qty.	Amount (Rs)	Esc. Rate (Rs)	Qty.	Amount (Rs)	Qty.	Amount (Rs)
A	**DRILLING**											
1	Drilling (3 rigs)"	m	2,551	10,910	10,910	6,400	6,98,24,000	10,910	3,640	3,97,12,400	10,040	10,95,36,400
2	Transportation	Km	8.80	35	35	3,900	1,36,500	35	3,900	1,36,500	7,800	2,73,000
3	Accommodation (One time/ Drill)	Nos	1,85,925	7,33,958	7,33,958	3	22,01,874	7,33,958			3	22,01,874
4	Camp Setting / Winding	Nos	68,606	2,70,829	2,70,829	3	8,12,487	2,70,829	3	-	6	8,12,487
5	Road Making (Flat Terrain)	Km	5,200	20,528	20,528	5	1,02,640	20,528	5	1,02,640	10	2,05,280
	Sub Total A				-		**7,30,77,501**	-		**3,99,51,540**	-	**11,30,29,041**
B	**GEOLOGICAL WORK**				-			-				
1	Survey Party days (1 party)	day	1,180	6,445	6,445	30	1,93,338	6,445	30	1,93,338	60	3,86,676
2	Geologist Party days (2 party)	day	1,541	8,590	8,590	360	30,92,400	8,590	340	29,20,600	700	60,13,000
3	Core Sampling Party days (2 party)	day	525	3,078	3,078	240	7,38,720	3,078	315	9,69,570	555	17,08,290
	Sub-Total B				-		**40,24,458**	-		**40,83,508**		**81,07,966**
C	**Geophysical studies**											
	a) Borehole Geophysical logging	m	153	557	557	5,200	28,96,400	557	4,840	26,95,880	10,040	55,92,280
	Sub Total C				-		**28,96,400**	-		**26,95,880**	-	**55,92,280**
D	**LABORATORY STUDIES**											
	1- Chemical Analysis				-			-			-	-
	i) Primary & Check samples				-			-			-	-
	a. Analysis for 9 Radicals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI (BH core samples)	Nos	718 (76x8+110)	4,155	4,155	1,300	54,01,500	4,155	1,700	70,63,500	3,000	1,24,65,000
	b. Internal (5%) and External (10%) Check samples from NABL Lab for 9 Radficals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI (BH core samples)	Nos	718 (76x8+110)	4,155	4,155	195	8,10,225	4,155	255	10,59,525	450	18,69,750
	ii) Composite Samples				-			-			-	-
	9 Radicals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI	Nos	718 (76x8+110)	4,155	4,155	50	2,07,750	4,155	150	6,23,250	200	8,31,000
	2- Physical & Petrological Studies				-						-	-
i)	X-RD Studies on composite	Nos	1,137	6,187	6,187	10	61,870	6,187	20	1,23,740	30	1,85,610
iv)	Specific Gravity determination	Nos	32	205	205	5	1,025	205	10	2,050	15	3,075
	Sub Total -D						**64,82,370**	-		**88,72,065**	-	**1,53,54,435**
								-			-	-
E	**GI Core Boxes**	Nos		2,000	2,000	1,600	**32,00,000**	2,000	910	**18,20,000**	2,510	**50,20,000**
	Transportation of core**	KM	8.80	35	35		-	35	600	**21,000**	600	21,000
	Sub Total -E						**32,00,000**			**18,41,000**		**50,41,000**
F	**Total A+B+C+D+E**						**8,96,80,729**			**5,74,43,993**		**14,71,24,722**
G	**Exploration Report-1%of (A+B+C+D+E) or Rs. 1,75,000 whichever is more**											**14,71,247**
H	**External Peer Review of Geological Report**											**10,000**

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I	Sub Total : G+G+H						8,96,80,729			58,915,240		14,86,05,970
J	GST (18% of I)	%			-		1,61,42,531			1,06,04,743		2,67,47,275
K	Grand Total : I to J				-		10,58,23,261			6,95,19,984		17,53,53,244
Note:												Say 1,753.53 Lakh
1	Rates of Goel Committee based on actual escalation as per RBI index as on 31.3.19 and provisional escalation of @ 5% point for Drilling, Laboratory & Geology for subsequent years.											
2	* Copper rates of Goel Committee have been considered, as there is no rates for Potash and the boreholes are to be drilled upto a depth range of 660-700m and there is no factor of escalation of rates at deeper level on pro-rata basis in MoM rates. Total 10,040m in 15 Bhs.											
3	Transportation of rig from Nagpur to Lakhasar: 2600m per rig (to & fro)											
4	** Transportation of core from Lakhasar to GSI core library Jaipur.											

Annexure-4B

S. No	Activities	Unit	Financial year 2020-21													Financial year 2021-22											
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
			4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	1/21	2/21	3/21	4/21	5/21	6/21	7/21	8/21	9/21	10/21	11/21	12/21	1/22	2/22	3/22		
1	Camp Setting	Month																										
2	Drilling (3 rigs operation)	m.																										
3	Survey Party days (1 Party)	day																										
4	Geologist Party days (Parties)	day																										
5	Sampling Party days																											
i.	Core Sampling (2 parties)	day																										
6	Geophysical Studies																											
	a) Borehole Geophysical survey	m																										
7	Laboratory Studies	Nos.																										
8	Camp Winding	Month																										
9	Report Writing with Peer review	Month																										

1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem will be additional to above time line subject to the approval of time line by EC.

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Annexure-5A

General Exploration (G2) for Limestone in Sendurai and Maruvathur Block, District: Ariyalur, Tamil Nadu.

S. No.	Item of Work	Unit	Base Rate as on 01-04-1990	Financial Year (2020-21)		
				Escalated Rate	Quantity	Amount (Rs)
A	**DRILLING**					
1	Surface Drilling (1 Rig)	m.	1,174	7,427	660	49,01,820
2	Transportation	Km.	9	35	3,000	1,05,000
3	Accommodation	One time/ Drill	1,85,925	7,33,958	1	7,33,958
4	Camp Mobilisation/ Demobilisation	Drill/month	68,606	2,70,829	2	5,41,658
5	Road Making (Flat Terrain)	Km	5,200	20,528	3	61,584
	Sub Total A					**63,44,020**
B	**GEOLOGICAL WORK**					
1	Survey Party Days (1 party)	day	1,180	6,445	45	2,90,025
2	Geologist Party days (1 party)	day	1,541	8,590	150	12,88,500
3	Core Sampling Party days(2 party)	day	525	3,078	120	3,69,360
	Sub Total B					**19,47,885**
C	**LABORATORY STUDIES**					
a	**Chemical Analysis**					
1	**Primary + Check Samples**					
	i) for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(110+76x5)	2,832	590	16,70,880
	ii) for additional 2 radicals SO3 & P2O5	Nos	186 '(76+110)	1,068	59	63,012
	iii) Check samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,832	30	83,544
	iv) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,832	59	1,67,088
2	**Composite Samples**					-
	i) for 12 radicals (CaO, MgO, Al2O3, SiO2, Fe2O3, SO3, P2O5 , LOI, MnO2, K2O, Na2O and Cl.)	Nos	946 (76x11+110)	5,478	88	4,82,064
b	**Physical Analysis**					-
1	Preparation of thin section	Nos	100	589	5	2,945
2	Petrographic Studies	Nos	228	1,553	5	7,765
3	Specific Gravity determination	Nos	64	410	5	2,050
	Sub Total C					**24,79,348**
D	**Preservation of Cores**					
	GI core boxes	Nos	0	2000	165	3,30,000
	Transportation	km	8.8	35	600	21,000
	Sub Total D					**3,51,000**
	Total A+B+C+D					**1,11,22,253**
E	**EXPLORATION REPORT - 1% of (A+B+C) or Rs. 1,75,000 whichever is more**					**1,75,000**
F	**External Peer Review of Geological Report**					**10,000**
	GRAND TOTAL A to F					**1,13,07,253**
	GST 18%					**2,035,306**

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	Grand Total : with GST 18%					**1,33,42,559**
						say 133.43 Lakh
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 31-03-2019.					
2	Phosphorite rates have been considered as there is no rate for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.					

Annexure-5B

S. No.	Activities	Unit	Months (2020-2021)									
			Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan
1	Camp Mobilisation	Month										
2	Surface Drilling (1 rig)	m.										
3	Survey Party days (1 Party)	day										
4	Geologist Party days (1 Party)	day										
5	Sampling Party days, Core Sampling (1 party)	day										
6	Laboratory Studies	Nos.										
7	Camp Demobilisation	Month										
8	Environmental Studies	Month										
9	Geological Report Writing	Month										
Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.												
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.												

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Annexure-6A

General Exploration (G2) for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu.

S. No.	Item of Work	Unit	Base Rate as on 01-04-1990	Financial Year (2020-21)		
				Escalated Rate	Quantity	Amount (Rs)
A	**DRILLING**					
1	Surface Drilling (1 Rig)	m	1,174	7,427	540	40,10,580
2	Transportation	km	9	35	3,000	1,05,000
3	Accommodation	One time/ Drill	1,85,925	7,33,958	1	7,33,958
4	Camp Mobilisation/Demobilisation	Drill/month	68,606	2,70,829	2	5,41,658
5	Road Making (Flat Terrain)	Km	5,200	20,528	3	61,584
	Sub Total A					**54,52,780**
B	**GEOLOGICAL WORK**					
1	Survey Party Days (1 party)	day	1,180	6,445	45	2,90,025
2	Geologist Party days (1 party)	day	1,541	8,590	120	10,30,800
3	Core Sampling Party days(2 party)	day	525	3,078	100	3,07,800
	Sub Total B					**16,28,625**
C	**LABORATORY STUDIES**					
a	**Chemical Analysis**					
1	**Primary + Check Samples**					
	i) for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(110+76x5)	2,832	485	13,73,520
	ii) for additional 2 radicals SO3 & P2O5	Nos	186 '(76+110)	1,068	49	51,798
	iii) Check samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,832	24	68,676
	iv) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,832	49	1,37,352
2	**Composite Samples**					-
	i) for 12 radicals (CaO, MgO, Al2O3, SiO2, Fe2O3, SO3, P2O5 , LOI, MnO2, K2O, Na2O and Cl.)	Nos	946 '(76x11+110)	5,478	72	3,94,416
b	**Physical Analysis**					-
1	Preparation of thin section	Nos	100	589	5	2,945
2	Petrographic Studies	Nos	228	1,553	5	7,765
3	Specific Gravity determination	Nos	64	410	5	2,050
	Sub Total C					**20,38,522**
D	**Preservation of Cores**					
	GI core boxes	Nos	0	2000	135	2,70,000
	Transportation	km	8.8	35	600	21,000
	Sub Total D					**2,91,000**
	Total A+B+C+D					**94,10,927**
E	**EXPLORATION REPORT - 1% of (A+B+C) or Rs. 1,75,000 whichever is more**					**1,75,000**
F	**External Peer Review of Geological Report**					**10,000**
G	**Environmental Studies**					
	Satellite Imagery Study	Scene	99,697	509,013	1	5,09,013
	Base line Data Collection	(10 km radius area)	151,273	772,339	1	7,72,339
	Chemical Analysis	Nos	257400**	6,66,331**	1	6,66,331

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	Environmental Report	Nos	50,000	50,000	1	50,000
	Sub Total G					**19,97,683**
	GRAND TOTAL A to G					**1,15,93,610**
	GST 18%					**20,86,850**
	Grand Total : with GST 18%					**1,36,80,460**
						Say 136.80 Lakh
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 31-03-2019.					
2	Phosphorite rates have been considered as there is no rate for Limestone in Revised Rates of Promotional Work of MoM Schedule of Rates.					

Annexure-6B

Sl. No.	Activities	Unit	Months (2020-2021)								
			1	2	3	4	5	6	7	8	9
1	Camp Mobilisation	Month	■								
2	Surface Drilling (1 rig)	m.		■	■	■					
3	Survey Party days (1 Party)	day		■		■					
4	Geologist Party days (1 Party)	day		■	■	■	■	■			
5	Sampling Party days, Core Sampling (1 party)	day			■	■	■	■			
6	Laboratory Studies	Nos.				■	■	■	■		
7	Camp Demobilisation	Month							■		
8	Environmental Studies	Month		■	■	■	■	■	■		
9	Geological Report Writing	Month							■	■	■

Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.

2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.

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Annexure-7A

General Exploration (G2) for Limestone in Reddipalayam amalgamated Limestone Block-2, District-Ariyalur, Tamil Nadu.

S.No.	Item of Work	Unit	Base Rate as on 01-04-1990	Financial Year (2019-20)		
				Escalated Rate	Quantity	Amount (Rs)
A	**DRILLING**					
1	Surface Drilling (1 Rig)	m	1,714	7,427	620	46,04,740
2	Transportation	km	9	35	1,400	49,000
3	Accommodation	One time/ Drill	1,85,925	7,33,958	1	7,33,958
4	Camp Mobilisation/ Demobilisation	Drill/month	68,606	2,70,829	2	5,41,658
5	Road Making (Flat Terrain)	Km	5,200	20,528	4	82,112
6	Bulk Sampling Party days	days	2,566	14,752	30	4,42,560
	Sub Total A					**64,54,028**
B	**GEOLOGICAL WORK**					
1	Survey Party Days (1 party)	day	1,180	6,445	90	5,80,050
2	Geologist Party days (1 party)	day	1,541	8,590	100	8,59,000
3	Core Sampling Party days(2 party)	day	525	3,078	70	2,15,460
	Sub Total B					**16,54,510**
C	**LABORATORY STUDIES**					
a	**Chemical Analysis**					
1	**Primary + Check Samples**					
	i) for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	642 (110+76x5)	2,832	650	18,40,800
	iii) Check samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	642 (110+76x12)	2,832	34	96,288
	iv) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	642 (110+76x12)	2,832	65	1,84,080
2	**Composite Samples**					-
	i) for 12 radicals (CaO, MgO, Al2O3, SiO2, Fe2O3, SO3, P2O5 , LOI, MnO2, K2O, Na2O and Cl.)	Nos	946 (76x11+110)	5,478	65	3,56,070
b	**Physical Analysis**					-
1	Preparation of thin section	Nos	100	589	-	-
2	Petrographic Studies	Nos	228	1,553	-	-
3	Specific Gravity determination	Nos	64	410	6	2,460
	Sub Total C					**24,79,698**
D	**Preservation of Cores**					
	GI core boxes	Nos	0	2,000	155	3,10,000
	Transportation (2 trips * 1400 km per trip @ 300m of core per trip)	km	8.8	35	600	21,000
	Sub Total D					**3,31,000**
	Total A+B+C+D					**1,09,19,236**
E	**EXPLORATION REPORT - 1% of (A+B+C+D) or Rs. 1,75,000 whichever is more**					**1,75,000**
F	**External Peer Review of Geological Report**					**10,000**
G	**Environmental Studies**					
	Satellite Imagery Study	Scene	99,697	5,09,013	1	5,09,013
	Base line Data Collection	(10 km radius area)	1,51,273	7,72,339	1	7,72,339

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	Chemical Analysis	Nos	2,57,400**	6,66,331**	1	6,66,331
	Environmental Report	Nos	50,000	50,000	1	50,000
	Subtotal G					**19,97,683**
	GRAND TOTAL A to G					**1,31,01,919**
	GST 18%					**23,58,345**
	Grand Total : with GST 18%					**1,54,60,264**
						Say 154.60 Lakh

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 31-03-2018.
2	Procurement of Aerogeophysical maps, Data, Fees & Levies on actuals to be reimbursed

Annexure- 7B

S. No.		Activities	Unit/ Month	Months (2020-2021)							
				Apr	May	June	July	Aug	Sep	Oct	Nov
1	Camp Setting										
2	Detailed Geological Mapping										
	2.1	Geologist Party days (2 Party)									
	2.2	Survey Party days (1 Party)									
	2.3	Sampling Party days, Core Sampling (1 party)									
	2.4	Laboratory Studies									
3	Drilling (1 rig) 620m										
	3.1	Geologist Party days (1 Party)									
	3.2	Core Sampling (1 party)									
	3.3	Survey Party days (1 Party)									
	3.4	Laboratory Studies									
4	Camp Winding										
5	Geological Report Writing										

Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.

2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.

15/02/2020

Annexure- 8A

General Exploration (G2) for manganese ore in Pimperkunta block, Bheempur mandal, District- Adilabad, Telangana.

S.No.	Item of Work	Unit	Base Rate as on 01-04-1990	Financial Year (2019-20)		
				Escalated Rate	Quantity	Amount (Rs)
A	**DRILLING**					
1	Surface Drilling (1 Rig)	M	1,714	10,910	600	65,46,000
2	Transportation	km	9	35	700	24,500
3	Accommodation	One time/ Drill	1,85,925	7,33,958	1	7,33,958
4	Camp Mobilisation/ Demobilisation	Drill/month	68,606	2,70,829	1	2,70,829
5	Road Making (Flat Terrain)	Km	5,200	20,528	10	2,05,280
6	Pitting & Trenching	Cu. M	395	1,856	100	1,85,600
	Sub Total A					**79,66,167**
B	**GEOLOGICAL WORK**					
1	Survey Party Days (1 party)	day	1,180	6,445	60	3,86,700
2	Geologist Party days (1 party)	day	1,541	8,590	120	10,30,800
3	Surface geophysical survey	day	1,541	8,590	40	3,43,600
4	Fluxgate magnetic measurements	Per station	107	498	40	19,920
5	Electrical resistivity (profiling with station interval of 200 mts)	Per Line km	3,473	15,762	20	3,15,240
	Sub Total B					**20,96,260**
C	**LABORATORY STUDIES**					
a	**Chemical Analysis**					
1	**Primary + Check Samples**					
	i) for 6 radicals i.e. Mn, SiO2, P2O5 Fe2O3, MnO2 and Insolubles	Nos	642 (110+76x5)	2,832	155	4,38,960
	ii) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	642 (110+76x12)	2,832	5	14,160
2	**Composite Samples**					-
	i) for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	642 (110+76x12)	2,832	5	14,160
b	**Physical Analysis**					-
1	XRD studies	Nos	1,137	6,187	5	30,935
2	Specific Gravity determination	Nos	64	410	4	1,640
	Sub Total C					**4,99,855**
	Total A+B+C					**1,05,62,282**
D	**EXPLORATION REPORT - 1% of (A+B+C+D) or Rs. 1,75,000 whichever is more**					**1,75,000**
E	**External Peer Review of Geological Report**					**10,000**
F	**Environmental Studies**					
	Satellite Imagery Study	Scene	99,697	509,013	1	5,09,013
	Base line Data Collection	(10 km radius area)	151,273	772,339	1	7,72,339
	Chemical Analysis	Nos	257400**	6,66,331**	1	6,66,331
	Environmental Report	Nos	50,000	50,000	1	50,000
	Sub Total F					**19,97,683**
G	**Beneficiation Studies**	Nos	2,89,387	2,89,387	2	**5,78,774**
	GRAND TOTAL A to G					**1,33,23,739**
	GST 18%					**23,98,273**
	Grand Total : with GST 18%					**1,57,22,012**

13/04/2020

		Say 157.22 Lakh
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 31-03-2018.	
2	Procurement of Aerogeophysical maps, Data, Fees & Levies on actuals to be reimbursed	

Annexure- 8B

S. No.	Activities	Unit	Months (2020-2021)											
			Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Camp Mobilisation	Month												
2	Surface Drilling (1 rig)	m.												
3	Survey Party days (1 Party)	day												
4	Geologist Party days (1 Party)	day												
5	Core Sampling (1 party)	day												
6	Laboratory Studies	Nos.												
7	Camp Demobilisation	Month												
8	Environmental Studies	Month												
9	Geological Report Writing	Month												

Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.

2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.

13/02/2020

Annexure- 9A

Reconnaissance Survey (G4) for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana.

S. No.	Item of Work	Unit	Rate	Total Quantity	Amount
A	**Drilling**				
1	Drilling (5BHs)	m	10,910	500	54,55,000
2	Transportation	km	35	100	3,500
3	Accommodation	1 Rig	7,33,958	1	7,33,958
4	Camp setting / winding	1 Camp	2,70,829	1	2,70,829
5	Road making		20,528	4	82,112
	Sub Total A				**65,45,399**
B	**GEOLOGICAL WORK**				
1	Geologist party working days during field work	Days	8,590	240	20,61,600
	Sample party days	Days	3,078	90	2,77,020
	Sub Total B				**23,38,620**
C	**MINING WORK**				
1	Pitting &Trenching	Cu.m	1,856	200	3,71,200
	Sub Total C				**3,71,200**
D	**Geophysical Studies**				
1	Total field magnetic measurements	Per station	498	400	1,99,200
2	Radiometric Survey (profiling with station interval of 200 mts)	Per station	498	400	1,99,200
3	Induced Polarisation Survey	Per Line km	32217	80	25,77,360
	Sub Total D				**29,75,760**
E	**LABORATORY STUDIES**				
	Chemical Analysis				
1	Geochemical Analysis for Mo, Bi, W, F, Ag, Cu, Pb, Zn)	1	3,976	300	11,92,800
2	Petrochemical study				
2.a	Major minerals: SiO2, A1203, Fe203, FeO, MgO, CaO, Na2O, K20, H20+, H20-, TiO2, P203, MnO, CO2, F, S	1	7,160	30	2,14,800
2.b	Minor Minerals: Be, Cs, F, Li, Mo, Nb, Rb, Sn, Ta, Th, U, and W.	1	7,160	30	2,14,800
3	Thin and polished section studies on drill cores as well as out-crop samples	1	2,210	30	66,300
4	XRD	1	6,187	10	61,870
	Sub Total E				**17,50,570**
	Total A+B+C+D+E				**1,39,81,549**
F	**Environmental Studies**				
1	Study of Satellite imagery	SCENE	5,09,013	1	5,09,013
	Sub Total F				5,09,013
	Total (A+B+C+D+E+F)				**1,44,90,562**
G	**Cost of Preparing Geological Report 1% of total Cost or Rs. 1,75,000 whichever is more**				**1,75,000**
H	**External Peer Review of the Geological report**				**10,000**
	Grand Total A to H				**1,46,75,562**
	GST 18%				**26,41,601**
	GRAND TOTAL				**1,73,17,163**
					Say 173.17 Lakh

13/04/2020

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 31-03-2018.
2	Procurement of Aerogeophysical maps, Data, Fees & Levies on actuals to be reimbursed

Annexure- 9B

S. No.	Activities	Unit	Months (2020-2021)											
			Apr	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar
1	Camp Mobilisation	Month	■											
2	Surface Drilling (1 rig)	m.						■	■	■				
3	Survey Party days (1 Party)	day				■	■	■	■					
4	Geologist Party days (1 Party)	day		■	■	■	■	■						
5	Core Sampling (1 party)	day						■	■	■				
6	Laboratory Studies	Nos.						■	■	■	■			
7	Camp Demobilisation	Month									■			
8	Geological Report Writing	Month										■	■	■
Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.														
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.														

13/02/2020

Annexure- 10A

Preliminary Exploration (G3) for Limestone in Maonda Block, Tehsil Neem Ka Thana, District- Sikar, Rajasthan

S. No.	Item of Work	Unit	Base Rate as on 01-04-1990	Financial Year (2020-21)		
				Escalated Rate	Quantity	Amount (Rs)
A	**DRILLING**					
1	Surface Drilling (1 Rig)	m	1,174	7,427	700	51,98,900
2	Transportation	km	9	35	2,400	84,000
3	Accommodation	One time/ Drill	1,85,925	7,33,958	1	7,33,958
4	Camp Mobilisation/ Demobilisation	Drill/month	68,606	2,70,829	2	5,41,658
5	Road Making (Flat Terrain to semi flat)	Km	5,200	20,528	2	41,056
	Sub Total A					**65,99,572**
B	**GEOLOGICAL WORK**					
1	Survey Party Days (1 party)	day	1,180	6,445	75	4,83,375
2	Geologist Party days (1 party)	day	1,541	8,590	100	8,59,000
3	Core Sampling Party days(2 party)	day	525	3,078	75	2,30,850
	Sub Total B					**15,73,225**
C	**LABORATORY STUDIES**					
a	**Chemical Analysis**					
1	**Primary + Check Samples**					
	i) for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 (110+76x5)	2,832	630	17,84,160
	ii) for additional 2 radicals SO3 & P2O5	Nos	186 (76+110)	1,068	63	67,284
	iii) Check samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 (76x5+110)	2,832	32	89,208
	iv) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 (76x5+110)	2,832	63	1,78,416
2	**Composite Samples**					-
	i) for 12 radicals (CaO, MgO, Al2O3, SiO2, Fe2O3, SO3, P2O5 , LOI, MnO2, K2O, Na2O and Cl.)	Nos	946 (76x11+110)	5,478	70	3,83,460
b	**Physical Analysis**					-
1	Preparation of thin section	Nos	100	589	5	2,945
2	Petrographic Studies	Nos	228	1,553	5	7,765
3	Specific Gravity determination	Nos	64	410	5	2,050
	Sub Total C					**25,15,288**
D	**Preservation of Cores**					
	GI core boxes	Nos	0	2,000	175	3,50,000
	Transportation	km	8.8	35	200	7,000
	Sub Total D					**3,57,000**
	Total A+B+C+D					**1,10,45,085**
E	**EXPLORATION REPORT- 1% of (A+B+C) or Rs. 1,75,000 whichever is more**					**1,75,000**
F	**External Peer Review of Geological Report**					**10,000**
	Sub Total F					**10,000**
	GRAND TOTAL A to F					**1,12,30,085**
	GST 18%					**20,21,415**
	Grand Total : with GST 18%					**1,32,51,500**
						Say 132.52 Lakh

13/02/2020

1	Revised rates of promotional work done by MECL on behalf of Govt. of India Vide letter no. 37(I)20066-M.I. dated:-02.07.2014 and based actual escalation as per RBI as on 31.03.2019
2	Phosphorite rates have been considered as there is no rate for Limestone in Revised rates of promotional work Mom schedule of rates.
3	# The peer Review amount to be paid to the member of peer review committee was finalized by the Executive committee of NMET
4	## Beneficiation rates has been considered based on IBM rates.

Annexure-10B

S. No.	Activities	Unit	Months (2020-2021)									
			Apr	May	Jun	July	Aug	Sept	Oct	Nov	Dec	Jan
			1	2	3	4	5	6	7	8	9	10
1	Camp Mobilisation	Month										
2	Surface Drilling (1 rig)	m.										
3	Survey Party days (1 Party)	day										
4	Geologist Party days (1 Party)	day										
5	Sampling Party days, Core Sampling (1 party)	day										
6	Laboratory Studies	Nos.										
7	Camp Demobilisation	Month										
9	Geological Report Writing	Month										
Note: 1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.												
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem may be additional to above time line subject to the approval of time line by EC.												

Annexure-11

Additional cost for Baseline Environment Studies for approved project- Adhanakurichi Block, Sendurai Taluk, District- Ariyalur District, Tamil Nadu for G2 level of exploration for Limestone combining Althiyur Block and Adhanakurichi Block.

S. No.	Environmental Studies	Unit	Base Rate as on 01-04-1990	Escalated Rate	Quantity	Amount (Rs)
1	Satellite Imagery Study	Scene	99,697	5,09,013	1	5,09,013
2	Base line Data Collection	(10 km radius area)	1,51,273	7,72,339	1	7,72,339
3	Chemical Analysis	Nos	2,57,400	6,66,331	1	6,66,331
4	Report Writing	Nos	50,000	50,000	1	50,000
	Sub-Total					**19,97,683**
	GST 18%					**3,59,583**
	Total					**23,57,266**

18/02/2020

Only through e-mail

Government of India
Ministry of Mines
National Mineral Exploration Trust

F. No. 6/2/2015-NMET/334 New Delhi, 6th March, 2020

Subject: Circulation of Minutes of 16th Meeting of the Executive Committee of National Mineral Exploration Trust (NMET) held on 25th February, 2020.

Please find enclosed the minutes of 16th Meeting of Executive Committee of NMET held on 25th February, 2020 for your kind perusal.

Action Taken Report on relevant paras may kindly be forwarded to this office.

06/03/2020

[Dr. L. P. Singh]
Director & HoD, NMET

To,

1. The Secretary, Dept. of Atomic Energy, Anushakti Bhawan, C.S.M. Marg, Mumbai-400001.
2. The Secretary, Ministry of Coal, Shastri Bhawan, New Delhi-110001.
3. The Secretary, Ministry of Petroleum and Natural Gas, Shastri Bhawan, New Delhi-110001.
4. The Joint Secretary and Financial Advisor, Ministry of Mines, Shastri Bhawan, New Delhi-110001.
5. The Director General, Geological Survey of India, 27, J. L. Nehru Road, Kolkata-700016.
6. The Controller General, Indian Bureau of Mines, 2nd Floor, Indira Bhawan, Civil Lines, Nagpur-440001.
7. The Secretary, Department of Mines & Geology, Govt. of Andhra Pradesh, A.P. Secretariat, 2nd Block, Room No.101, Amravati, Vijayawada-522238.
8. The Secretary, Mineral Resources Dept., Govt. of Chhattisgarh, Mantralaya, Mahanadi Bhawan, Naya Raipur, Raipur-492001.
9. The Principal Secretary, Mineral Resources Department, Govt. of Madhya Pradesh, Mantralaya, Vallabh Bhawan, Bhopal-462004.
10. The Secretary, Department of Industries, Mines & Geology, Govt. of Jharkhand, Second Floor, Above SBI Building, Besides MDI Building, Project Building, Dhurva, Ranchi-834004.
11. Dr. N. P. Nathan, Retd. DDG, GSI, 151/2A, Govinda Pillai Colony, Camp Road, Selaiyur (PO), Chennai-600073.
12. Dr. Hari Shankar Pandalai, Professor, Dept. of Earth Science, IIT, Bombay, Powai, Mumbai-400076.
13. Shri P. S. Parihar, Director (Retd.) Atomic Minerals Directorate for Exploration and Research, Department of Atomic Energy, A202, Aashima Mall, Hoshangabad Road, Bhopal-462026.

14. Shri Naresh Nautiyal, Head (Retd.) Business Development & Planning, MECL, 109, KT Nagar, Katol Road, Nagpur-440013.
15. Shri Alok Sharma, Retd. GM & HoD (Exploration), CMPDIL, 402, Lake Garden Apartment, Opposite Gandhi Nagar, Kanke Road, Ranchi-834008.

Copy to:

1. The Additional Director General & Head (M-II) and Chairman, TCC-NMET, Central Region, GSI Complex, Seminary Hills, Nagpur-440006.
2. The Director (Technical), Ministry of Mines, Shastri Bhawan, New Delhi-110001.
3. The Chairman-cum-Managing Director, MECL, Dr. Babasaheb Ambedkar Bhawan, Seminary Hills, Nagpur-440006.
4. The Chairman-cum-Managing Director, CMPDIL, Gondwana Place, Kanke Road, Ranchi-834031.
5. The Chairman-cum-Managing Director, KIOCL Ltd, Block-II, Koramangala, Sarjapura Road, Bengaluru, Karnataka-560034.
6. The Chairman-Cum-Managing Director, NMDC Ltd., Khanij Bhavan, Castle Hills, Masab Tank, Hyderabad-500028.
7. The Chief Executive Officer, Mineral Exploration Research and Innovation Trust (MERIT), Department of Mines & Geology, 6th Floor, B-Wing, Sri Anjaneya Towers, Ibrahimpatnam, District: Krishna-521456.
8. The Chairman-cum-Managing Director, NTPC Limited, NTPC Bhawan, SCOPE Complex, 7 Institutional Area, Lodhi Road, New Delhi-110003.
9. The Principal Secretary, Dept. of Mines & Geology, Govt. of Goa, Secretariat, Porvorim, Goa-403521.
10. The Secretary, Dept. of Industries & Commerce (MSME & Mines), Govt. of Karnataka, Room No.136, 1st floor, Vikas Soudha, Bengaluru-560001.
11. The Addl. Chief Secretary (Industries & Mines), Govt. of Maharashtra, Room No. 114, 1st floor, Industry & Labour Dept., Mantralaya Annexe Building, Mumbai-400032.
12. The Principal Secretary, Dept. of Steel & Mines, Government of Odisha, Odisha Secretariat, Bhubaneswar-751001.
13. The Principal Secretary, Dept. of Mines, Govt. of Rajasthan, Secretariat, Jaipur-302005.
14. The Principal Secretary, Dept. of Industries, Govt. of Tamil Nadu, Secretariat, Chennai-600009.
15. The Principal Secretary (Industries & Mines), Govt. of Telangana, D-Block, Telangana Secretariat, Hyderabad-500022
16. The Director, AMD, Department of Atomic Energy, AMD Complex, Begumpet, Hyderabad-500016.
17. The Director, Department of Mines and Geology, Government of Andhra Pradesh, 5th and 6th Floor, D. No.7-104, B- Block, Anjaneya Tower, Ibrahimpatnam, Vijayawada-521456.
18. The Director, Directorate of Geology & Mining, Govt. of Chhattisgarh, Indravati Bhavan, Block No-4, 2nd Floor, Naya Raipur-492002.
19. The Director of Mines & Geology, Government of Goa, Inst. Menezes Braganza Building, Ground Floor, Panjim, Goa-403001.
20. The Director, Department of Industries, Udyog Bhawan, Bemloe, Shimla-171001.
21. The Director, Department of Geology and Mining, Government of Jammu and Kashmir, J.L. Nehru Udyog Bhawan, 4th Floor, Rail Head Complex, Jammu-80006.
22. The Director (Mines), Directorate of Mines, Government of Jharkhand, Nepal House, Doranda, Ranchi-834001.

23. The Director, Department of Mines & Geology, Government of Karnataka, No.49, Khanij Bhawan, Race Course Road, Bengaluru-560001.
24. The Director, Directorate of Mining & Geology, Government of Kerala, Kesavadasapuram, Pattom Palace, Thiruvananthapuram-695004.
25. The Director, Directorate of Geology & Mining, 29-A, Khanij Bhawan, Arera Hills, Bhopal-462004.
26. The Director, Directorate of Geology and Mining, Government of Maharashtra, Khanij Bhavan, 27, Shivaji Nagar, Cement Road, Nagpur-440010.
27. The Director, Directorate of Mines, Government of Odisha, Bhu-Bigyan Bhavan, Bhubaneswar–751001
28. The Director, Mines and Geology Directorate, Government of Rajasthan, Khanij Bhawan, Shastri Circle, Udaipur-313101.
29. The Commissioner of Geology & Mining, Government of Tamil Nadu, Secreturial, Guindy, Chennai-600032.
30. The Director of Mines and Geology, Government of Telangana, 8th Floor, "D" Block, B.R.K.R. Bhavan, Tankbund, Hyderabad-500063.
31. The Director, Directorate of Geology & Mining, Government of Uttar Pradesh, 27/8 Raja Ram Mohan Roy Marg, Khanij Bhavan, Lucknow-226001.
32. The Director, Geology and Mining Unit, Govt. of Uttarakhand, 4 Subhash Road, Secretariat, Dehradun-248001.
33. The Director, Directorate of Mines & Minerals, Government of West Bengal, 4, Abanindranath Tagore Sarani, 2nd floor, Kolkata-700016.
34. The Director, Department of Mines, Minerals & Geology, Government of Sikkim, Secretariat Complex, Tashiling, Gangtok-737101.
35. The Director, Directorate of Mineral Resources, Government of Meghalaya, Risa Colony, Shillong-793003.
36. The Director (Geology & Mining), Directorate of Geology, Government of Nagaland, Dimapur-797112.
37. The Managing Director, Odisha Mining Corporation, OMC House, Bhubaneswar-751001.

Copy for information to:

1. PS to Hon'ble Minister of Mines, Shastri Bhawan, Dr. Rajendra Prasad Road, New Delhi-110001.
2. Sr. PPS to Secretary/PPS to AS/PPS to EA/PPS to JS&FA, Ministry of Mines, Shastri Bhawan, New Delhi-110001.

Government of India
Ministry of Mines
National Mineral Exploration Trust (NMET)

Minutes of the 16th meeting of the Executive Committee of National Mineral Exploration Trust (NMET) held on 25th February, 2020.

The 16th meeting of the Executive Committee of National Mineral Exploration Trust (NMET) was held under the Chairmanship of Shri Sushil Kumar, Secretary (Mines) on 25th February, 2020 in Khanij Kaksh, Ministry of Mines, Shastri Bhawan, New Delhi. The list of participants is given in **annexure-I**.

Economic Advisor (EA), Mines & Member Secretary, EC welcomed the participants and invited the members to discuss the various agenda points. Following are the agenda points discussed and decisions taken.

AGENDA 16.1

Approval of minutes of the 15th meeting of EC.

The minutes had been circulated to all members of EC. No comments were received on the minutes and therefore, it was taken as approved.

AGENDA 16.2

Discussion on ATR of the 15th meeting of Executive Committee

16.2.1 Approval of Report of Committee on Schedule of Charges (SoC) for NMET funded projects.

EC in its 15th meeting discussed the revised Schedule of Charges (SoC) for NMET funded projects and recommended for approval of GB in its next meeting. While discussing ATR on SoC, the members felt that the SoC report has been discussed thoroughly with stakeholders, experts and other members of EC several times and accordingly the revised SoC was recommended for approval of GB.

The Secretary, Mines and Chairman, EC opined that as the SoC report has been discussed thoroughly at various levels and therefore, EC may approve it and report it to GB in its next meeting.

Decision of EC

EC approved the SoC of NMET which will come into effect from 1st April, 2020 and will be reported to GB in its next meeting.

(Action: NMET)

AGENDA 16.3

Approval of new project proposals recommended by the Technical-cum-Cost Committee (TCC).

EC was informed that TCC in its 23rd meeting held on 12th and 13th February, 2020 at New Delhi, recommended a total of 8 new project proposals for approval by EC. The details of the projects are:

S. No.	Project/Block Name	Commodity	Duration (months)	Approved Cost (₹ lakhs including GST)
1	General Exploration (G2) for Iron Ore near Kajlodiya, Tehsil- Banera, District- Bhilwara, Rajasthan. **Implementing Agency: MECL**	Iron Ore	18	548.07
2	Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, Bikaner district, Rajasthan. **Implementing Agency: MECL**	Potash	24	1753.53
3	General Exploration (G2) for Limestone in Sendurai and Maruvathur Block, District- Ariyalur, Tamil Nadu. **Implementing Agency: MECL**	Limestone	10	133.43
4	General Exploration (G2) for Limestone in Periyakurichi Block, District- Ariyalur, Tamil Nadu. **Implementing Agency: MECL**	Limestone	9	136.80
5	Preliminary Exploration (G3) for Limestone in Maonda Block, Tehsil Neem Ka Thana, District Sikar, Rajasthan. **Implementing Agency: MECL**	Limestone	10	132.52
6	General Exploration (G2) for Limestone in Reddipalayam amalgamated Limestone Block-2, District- Ariyalur, Tamil Nadu. **Implementing Agency: KOICL**	Limestone	8	154.60
7	General Exploration (G2) for manganese ore in Pimperkunta block, Bheempur mandal, District Adilabad, Telangana. **Implementing Agency: TSMDC**	Manganese	12	157.22
8	Reconnaissance Survey (G4) for Prospect Evaluation of the sporadic occurrences of Molybdenite, South of Karimnagar (56 N/4), District- Siddipet and Karimnagar, Telangana. **Implementing Agency: TSMDC**	Molybdenum	12	173.17

Decision of EC

- EC accorded approval of the 3 projects (**S. No. 2, 7 and 8**) at estimated cost of **₹2083.92** lakh (approx. Rupees Two Thousand and Eighty Four Lakh only).

- Limestone and Iron exploration proposals should not be considered for NMET funding as that is contrary to mandate of NMET as pointed out by the members.
- Exploration work for projects at S. No. 1, 3, 4, 5 and 6 should be carried out by GSI.
- EC directed DG, GSI to prepare an inventory of work done for limestone exploration in each State for availability and demand of limestone for further exploration in consultation of States.

(Action: NMET/GSI)

AGENDA 16.4

Decision on hiring of Consultants for monitoring of projects under execution through NMET funding.

EC was infromed that as per provisions of rule 13 of the NMET Rules 2015, 09 experts in 4 mineral categories were selected for monitoring of projects under execution. Subsequently, all the selected experts were intimated who submitted the acceptance letter based on set terms and condition. EC in its 12th meeting held on 25th April, 2019 accorded approval for engagement of selected consultants.

As advised by IFD Mines, the file was put up for financial concurrence before issuing offer of appointment. The following observations nave been made by IFD, Mines.

- Frequency of field/project visits of these experts during the month/year or till completion of the project and timeline for submission of the reports has not been mentioned.
- The estimated expenditure involved in the field/project visits may be indicated.
- Regarding remuneration, the Administrative Division may be advised to follow the guidelines framed by this Ministry with approval of IFD/ JS&FA (Mines) for engagement of other consultants/experts.
- Administrative Division has not consulted IBM in this regard. Therefore, be advised to take up the matter with the IBM and the reply/comments/ views of the IBM may be obtained before taking action for engagement of the experts from any other Government entity.
- As NMET Secretariat is presently functioning as a Programme Division of the Ministry of Mines, it is felt that the instant proposal should be routed through the Establishment Division of the Ministry.
- Concurrence of IFD was not obtained before engaging consultants for monitoring NMET funded project.
- Administrative Division may provide the complete details, including job responsibilities, timelines and deliverables along with the basis of remuneration and justification for engaging 9 consultants for examination by IFD.
- Selection process appears to have been completed without taking financial concurrence, there is no provision for ex-post facto concurrence.

NMET has to prioritise exploration of deep-seated and concealed minerals based on criticality of minerals in line with 5 year vision plan of the Ministry. Therefore, the hiring of consultants has to be aligned as per priority set out in the 5 year Vision document.

Decision of EC

- EC decided not to proceed further with issuing of offer of appointment to selected experts and cancel the process and intimate accordingly to the selected candidates.
- It was also decided to initiate fresh process for selection of consultants as per the existing norms and to complete the process within two months.

(Action: NMET)

AGENDA 16.5

Time overrun in the ongoing projects executed by Exploration Agencies through NMET funding.

EC was informed that TCC in its 23rd meeting reviewed and examined the time overrun in NMET funded projects executed by GSI, MECL, NMDC, KIOCL and recommended for approval of EC. **(Annexure-II)**

Decision of EC

- EC approved the time overrun for projects **(annexure-II)** without cost overrun and advised that no further time overrun to be given.
- EC expressed serious concern about the delay in completion of the projects and asked Notified Exploration Agencies (NEAs) to strictly adhere to the approved timeline.
- The Secretary, Mines & Chairman, EC, NMET asked DG, GSI to facilitate quarterly meetings at the level of State DyDGs with State DGMs for discussing issues related to exploration activities in their State.

(Action: NMET/GSI)

AGENDA 16.6

Additional cost for Baseline Environment Studies for approved project- Adhanakurichi Block, Sendurai Taluk, District- Ariyalur District, Tamil Nadu for G2 level of exploration for Limestone combining Althiyur Block and Adhanakurichi Block.

EC was informed that the project was approved in 15th EC Meeting, held on 28th November, 2019 with estimated cost of Rs. 115.92 lakh without baseline environmental studies. The cost of Baseline Environment Studies will be Rs. 23,57,266/ including GST.

The TCC recommended the proposal of additional estimated cost of Rs. 23,57,266/- including GST for Baseline Environment Studies. Since this amount exceeds 10% of the original approved cost, therefore, the approval of EC is required.

Decision of EC

- The Baseline Environment Studies is not required for the mineral exploration projects

funded under NMET and did not approve the additional cost for it.

- EC directed that TCC should prepare a check list for the evaluation of cost sheet of proposals.

(Action: NMET)

AGENDA 16.7

Cancellation of approved projects recommended by TCC.

EC was informed that TCC in its 23rd meeting, recommended for cancellation of six approved projects by EC. The project were cancelled due to various reasons and details of the projects are given below-

S. No.	Project/Block Name	Exploration Agency	Remarks
1	Patchpur Block, Mand Raigarh Coalfield, Chhattisgarh	CMPDI	Due to non-admissibility of administrative charges.
2	Merkhi West Block, Shadol Coalfield, Madhya Pradesh	CMPDI	Due to non- admissibility of administrative charges.
3	Ameliha Block, Shadol Coalfield, Madhya Pradesh	CMPDI	Due to non- admissibility of administrative charges.
4	Tirumankaradu area for Iron Ore, District-Tirupur, Tamil Nadu.	KIOCL	Due to local Law and Order problem and same was informed by DGM, Tamil Nadu to cancel the projects as the problem still persists.
5	Poomedu Iron Ore Block, District- Tirpur & Karur, Tamil Nadu.	KIOCL	Due to local Law and Order problem and same was informed by DGM, Tamil Nadu to cancel the projects as the problem still persists.
6	Khargone Block, Khargone district, Madhya Pradesh.	NTPC	NTPC wanted to outsource the project but despite of several attempts no bidder could qualify as per NIT. Consequently, they requested to cancel the project.

Decision of EC

EC accorded approval for cancellation of all six projects.

(Action: NMET)

AGENDA 16.8

Approval for hiring outsourced services for NMET Secretariat.

EC was informed that in financial Year 2019-20, a total of 8 outsourced personnel [3 nos.

of Accountant, 2 nos. of Data Entry Operator and 3 nos. of MTS], two sedan cars (monthly basis) and one sedan car (need based) were hired through CPP portal as NMET was not registered on GeM portal. All the 8 outsourced personnel are working in NMET Secretariat and the contract is going to expire on 31st March, 2020. Services of the two sedan cars were discontinued w. e. f. August 2019.

The work of the NMET has been increasing progressively. In view of above and the fact that the existing contract is going to expire, the following services as at present are to be hired for smooth functioning of the day to day office work of NMET through GeM Services:

a. Accountants- 3 Nos.
b. Data Entry Operators- 3 Nos.
c. MTS- 3 Nos.
d. Vehicle (sedan car)- need based- 1 No.

Decision of EC

- EC accorded in-principle approval for hiring of a maximum of 5 nos. each of Accountant, Data Entry Operator and MTS and two vehicles for a period of two years. However, the actual number of engagement of above mentioned outsourced personnel may be done as per need by following the due process.

(Action: NMET)

AGENDA 16.9

Review of ongoing projects in 23rd TCC meeting held on 12th and 13th February, 2020.

EC was informed that TCC in its 23rd meeting, reviewed the ongoing projects executed by NEAs. The details of the projects reviewed are given in **annexure-III.**

Decision of EC

- EC advised that for each reviewed project, the details about the work done, chemical analysis, schedule timeline of completion of project, Geological Report submission, outcome/mineral resource of the exploration done and recommendations of TCC to be tabulated and presented in the meeting. This should also be put in public domain.
- The Committee also decided that depending on domain expertise, the nominated Expert Members of EC may visit ongoing projects. The NMET Secretariat will facilitate the visit of the Expert Members, EC in terms of TA/DA and other expenses as per Government Rules.

(Action: NMET)

AGENDA 16.10

Information of additional cost approved by 23rd TCC.

EC was informed that TCC in its 23rd meeting, approved additional cost for additional samples, Geological Report writing and drilling for following project executed under NMET fund.

1. Additional cost of samples in Rengali (G2) Block, District- Bolangir, Odisha-₹10,56,410/- including GST. (Manganese)
2. Additional cost for Geological Report writing of approved project- General Exploration (G2) for Magnesite in Selu Block District- Udaipur, Rajasthan-₹2,72,858/- including GST.
3. Additional cost in approved project of Limestone in Cluster-1 (G4) Mellacheruvu, Mallareddy Gudem and Yepal Madhavaram Blocks, District- Suryapet, Telangana-₹1,24,272/- including GST.

Decision of EC

- EC suggested that TCC may continue to approve as needed, the additional cost upto 10% of the original approved cost with proper justification and technical requirement for mineral exploration work.

(Action: NMET)

AGENDA 16.11

Funding mechanism for the Projects which have work components for which there is no Schedule of Charges (SoC).

1. **National Geoscience Data Repository (NGDR)**
2. **Heliborne Survey for the interpreted airborne legacy data.**
3. **Projects in collaboration with Notified Exploration Agencies like GSI and National Research Institute working on specific themes for mineral exploration.**

EC was informed that in 23rd TCC meeting, CSIR-NGRI and GSI proposed a project on Deep-seated mineral prognosis by geophysical techniques. The TCC recommended that the project proposal is technically viable for prognostication of Deep-seated mineralization, e.g. Kimberlite pipes and gold-basemetal mineralisation.

However, it was noted by TCC that the proposal is for a collaborative research between a NEA (GSI) and a National Institute (NGRI) involving activities for which SoC rates are not available. Therefore, TCC recommended that the funding mechanism for all such projects for which SoC is not available should be discussed and decided by the Executive committee.

Decision of EC

- EC suggested that the model adopted by Directorate of Hydrocarbon (DGH) should be followed for handling the National Data Repository (NDR).
- For NGDR and Heliborne Survey, GSI should take approval from Financial Standing Committee (FSC) and Ministry of Mines for project execution under NMET fund. After completion of tendering process and other statutory clearances, the project proposal will be put up in TCC for recommendation for approval by EC.
- EC agreed about the funding for projects in collaboration with GSI and National Research Institute working based on specific themes for mineral exploration after signing MoU and it was further decided that the cost of the work components which are not in SoC,

NMET will be reimbursed on actual basis and cost of such work components have to be certified from the Head of the Institute with whom MoU will be signed.

(Action: NMET/GSI/NGRI)

AGENDA 16.12

Modernisation of Mineral Processing Laboratories of Indian Bureau of Mines.

Indian Bureau of Mines, Nagpur proposed for the modernisation of Mineral Processing Laboratories through NMET funding.

Decision of EC

- EC advised to submit the proposal to the Ministry for making provision in the budget with phasing on annual basis.

(Action: IBM)

Annexure-I

List of participants in 16th EC meeting held on 25th February, 2020 at Khanij Kaksh, Ministry of Mines, New Delhi

S. No.	Name & Designation	Organization/ Contact no./email	Remarks
1	Shri Sushil Kumar Secretary, Mines	Ministry of Mines secy_mines@nic.in	*In Chair*
2	Dr. K. Rajeswara Rao Additional Secretary, Mines	Ministry of Mines as_mines@nic.in	
3	Shri Alok Chandra Economic Adviser and Member Secretary, NMET	Ministry of Mines ea-mines@gov.in	Member Secretary, *ex officio*
4	Smt. Reena Sinha Puri Joint Secretary & Financial Adviser	Ministry of Mines jsfa.moc@nic.in	Member, *ex officio*
5	Shri M. Sridhar Director General	Geological Survey of India dg.gsi@gov.in	Member, *ex officio*
6	Shri D. Mohan Raj Additional Director General	Mission Head-II, GSI and chairman, TCC-NMET/ hodnm2@gsi.gov.in	Invitee
7	Dr. Anindya Sinha Project Advisor	Ministry of Coal advp.moc@nic.in	Representative, Ministry of Coal
8	Shri Pradeep Singh Director (Tech)	Ministry of Mines director.mom@nic.in	Invitee
9	Dr. L. P. Singh Director & HoD	Ministry of Mines nmet-mines@gov.in	NMET
10	Smt. Indira Ravindran, Director (Ore Dressing) and Controller General (I/C)	Indian Bureau of Mines Nagpur/cg@ibm.nic.in	Member, *ex officio*
11	Prof. H. S. Pandalai	IIT Professor Bombay pandalai@iitb.ac.in	Nominated Expert Member, EC, NMET
12	Shri Alok Sharma GM-Exploration (Retd.)	CMPDI aloksharma360@gmail.com	Nominated Expert Member, EC, NMET
13	Dr. N. P. Nathan Dy. Director General (Retd.)	Geological Survey of India npnathan55@yahoo.co.in	Nominated Expert Member, EC, NMET
14	Shri Naresh Nautiyal Head BD & Planning (Retd.)	MECL nautiyal.naresh5@gmail.com	Nominated Expert Member, EC, NMET
15	Dr. Dipayan Guha Dy. DG	GSI, DGCO, New Delhi dipayan.guha@gsi.gov.in	Representative, GSI
16	Shri R. P. Singh, Scientific Officer-II	AMD, Northern Region rpsingh.amd@gov.in	Representative, DAE
17	Shri Vineet Kumar Austin Director	DGM, Madhya Pradesh	Representative, DGM, MP
18	Shri Yogesh Sharma	MECL, New Delhi	Representative,

	GM (BD & P/E)	yogesh21@hotmail.com	MECL
19	Shri J. K. Solanki Dy. Director	DGM, Madhya Pradesh	Representative, DGM, MP
20	Shri B. P. Raturi GM (Exploration)	MECL, Nagpur bpraturi100@yahoo.in	Representative, MECL
21	Dr. Ch. Sravan Kumar DGM (Geology)	NMDC Ltd, Hyderabad chsravanKumar@nmdc.co.in	Representative, NMDC
22	Dr. K. Sriramguru Sr. Manager (Geology)	NMDC Ltd, Hyderabad	Representative, NMDC
23	Sri. Kailash Dongre Joint Director (Geology)	DGM Chhattisgarh, Raipur Kailashdongre.kd@gmail.com	Representative, DGM Chhattisgarh
24	Dr. A. K. Panda GM (Exploration)	CMPDI, Ranchi gmexpl.cmpdi@coalindia.in	Representative, CPMDI
25	Shri R. N. Jha Director (T/CRD)	CMPDIL, Ranchi	Representative, CPMDI
26	Shri M. C. Bhatt Under Secretary	Ministry of Petroleum	Representative, PNG
27	Smt. Kumari Anjali Director Geology	DGM, Jharkhand	Representative, DGM, Jharkhand
28	Shri Maneesh Khar Director	Ministry of Mines nmet-mines@gov.in	NMET
29	Shri Manoj Kumar Director & Member Secretary, TCC	Ministry of Mines nmet-mines@gov.in	NMET
30	Shri Subhash Kumar Senior Geologist	Ministry of Mines nmet-mines@gov.in	NMET
31	Smt. Rupa Kundu Senior Geologist	Ministry of Mines nmet-mines@gov.in	NMET
32	Shri Shashi Kant Assistant Cost Account Officer	Ministry of Mines nmet-mines@gov.in	NMET
33	Shri Rajendra Prasad Dy. Director (P&A)	Ministry of Mines nmet-mines@gov.in	NMET

Annexure-II

The details of the projects approved for time overrun in the ongoing projects executed by Exploration Agencies through NMET funding.

S. No.	Name of the Block	Sanction Date	Time schedule (month)	Schedule date of completion	Time over run
1	Multisensor Aero-geophysical Surveys by GSI over OGP & adjoining areas of India by GSI (Block-9 to 12).	20/08/2018	12	19/08/2019	Up to 30th September, 2020
2	Consultant for interpretation of airborne legacy data for follow-up helibor ne surveys by GSI.	16/08/2018	12	15/08/2019	Up to 30th April, 2020
3	Jamodi Mahanna (Part-B) Block, Tehsil Raghurajnagar, District-Satna, Madhya Pradesh. (G2)	21/06/2018	10	21/4/2019	Up to 29th February, 2020
4	Malangtoli Sub-Block-H Iron Ore Deposit, Districts Sundargarh & Kendujhar, Odisha. (G3)	21/06/2018	12	20/6/2019	Up to 30th May, 2020
5	Nahardih-Madhaipur Block for Limestone, Raipur, Chhattisgarh. (G2/G3)	01/09/2017	7	31/03/2018	Up to 31st August, 2018
6	Rengali Block, District- Bolangir, Odisha. (G2)	16/08/2018	15	15/11/2019	Up to 30th April, 2020
7	Biarpalli Block, District- Bolangir, Odisha. (G4)	31/10/2018	12	30/10/2019	Up to 30th October, 2020
8	Biarpalli Block, District- Bolangir, Odisha. (G2)	31/10/2018	14	30/12/2019	Up to 30th September, 2020
9	Babja Block, District- Bolangir, Odisha. (G4)	31/10/2018	12	30/10/2019	Up to 30th October, 2020
10	Babja Block, District- Bolangir, Odisha. (G2)	31/10/2018	10	30/8/2019	Up to 31st July, 2020
11	Dunguripalli Block, District-Bolangir district, Odisha. (G2)	30/09/2019	10	20/7/2020	Up to 31st January, 2021
12	Nandgaon-Gora- Mahewa Area, District- Chatterpur, Madhya Pradesh. (G4)	03/04/2017	12	02/04/2018	Up to 30th June, 2020
13	Udbur Block, District- Mysore, Karnataka. (G4)	03/04/2017	12	02/4/2018	Up to 30th June, 2020
14	Salumi Bock, Kiphire District, Nagaland. (G3)	24/02/2018	14	23/04/2019	Up to 31st March, 2020
15	Mollen Jopi Ziphu and adjoining area, Naga Hills Ophiolite, Phek District, Nagaland. (G4)	24/02/2018	12	23/02/2019	Up to 31st March, 2020

Annexure-III

List of the projects reviewed in 23rd TCC meeting held on 12th and 13th February, 2020.

S. No.	Project/Block Name	Exploration Agency	Commodity	Remarks
1	Rengali Block, District-Bolangir, Odisha. (G4 and G2)	MECL	Manganese	In G2 block, 0.364 million tonnes of Gross and 0.328 million tonnes of Net geological in situ manganese ore resource have been estimated with average grade of 21.37% Mn.
2	Tamiya Block, District-Bolangir, Odisha. (G4 and G2)	MECL	Manganese	In G2 block, 0.703 mt of Gross and 0.6327 mt Net geological in situ Manganese ore resource have been estimated with average grade of 23.04% Mn.
3	Bahja Block, District Bolangir, Odisha. (G4 and G2)	MECL	Manganese	In G2 block, progress of drilling, samples collection and chemical analysis were reviewed. It was informed that forest clearance has been received for G4 block.
4	Barpalli Block, District-Bolangir, Odisha. (G4 and G2)	MECL	Manganese	In G2 block, progress of drilling, samples collection and chemical analysis were reviewed and progress was found to be satisfactory.
5	Dungripalli Block, District-Bolangir, Odisha. (G2)	MECL	Manganese	The Committee was informed that exploration work has not been initiated due to cotton cultivation and requested for timeline extension for 6 months. TCC has recommended time extension.
6	Nandgaon-Gora-Mahewa Block, Chhatarpur, MP. (G4)	NMDC	Copper	The Committee was informed that on the basis of Satellite Imagery studies and aeromagnetic data, four potential zones have been identified and samples from well cutting were analysed which indicated anomalous Cu values. The Committee recommended that based on the work carried out so far, Geological Report may be submitted and proposal for further exploration work to be submitted.
7	Bukkapatna Block (SR-KAR-09), Tumkur District, Karnataka. (G4)	NMDC	Gold	The Committee was informed that block is not promising. The Committee suggested to resubmit the revised cost sheet as per the approved work component for reappropriation of cost.
8	Udbur Block, District-Mysore, Karnataka. (G4)	KIOCL	Gold and Nickel	The Committee was informed that the mineralized core samples of nickel have been sent for chemical analysis and EPMA studies.
9	Neerbudhihal Blocks-East and West, District-Bagalkote, Karnataka. (G4)	KIOCL	Limestone	The Committee was informed that exploration work is under progress as per approved timeline.
10	Khandadhar Block (47 sq. km), District- Sundergarh, Odisha (G4), Khandadhar Block (2.93 sq. km), District-Sundergarh, Odisha (G2) and Khandadhar Sub-block-A, District- Sundargarh, Odisha (G2)	OMECL	Iron Ore	The Committee recommended 500m drilling in 5 BHs instead of Geophysical Survey work after obtaining forest clearance.

F. No. 6/2/2015-NMET
Ministry of Mines
National Mineral Exploration Trust

New Delhi, the 30th March, 2020

OFFICE MEMORANDUM

Subject: Approval of 01 mineral exploration project to be executed by Mineral Exploration Corporation Limited (MECL).

On the recommendation of Technical-cum-Cost Committee (TCC) of NMET, the Executive Committee in its 16th meeting, held on 25th February, 2020 approved 01 mineral exploration project to be executed by MECL at an estimated cost of **₹1753.53 Lakhs**. The details of the Block are given below:

S. No.	Block/Project Name	Commodity	Stage	Duration (months)	Estimated Cost (₹ in Lakhs)
1	Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, Bikaner district, Rajasthan.	Potash	G3	24	**1753.53**
				Total	**₹1753.53 Lakhs**

2. The mineral exploration project will be funded by NMET as per the cost recommended by the TCC and approved by the Executive Committee. The Implementing Agency shall complete the same as per the approved cost estimates and time schedule, enclosed in **Annexure-1**. **The sanction order will be effective from 1st April, 2020.**

3. As per the 14th EC meeting decision, escalation clause is a part of SoC, therefore, the reimbursement of the projects spanning multiple financial years will be made as per the escalated rates of SoC applicable during the scheduled time period of the project. **Accordingly, Exploration agency is requested to submit financial year wise phasing of work plan/milestone along with estimated cost within 30 days from issuance of this sanction order**.

4. In case of forest clearance and local law & order problems, the start date will be from date of receipt of forest permission or letter regarding resolution of local problems.

5. The Implementing Agencies shall submit progress on monthly basis to NMET Secretariat. The TCC, NMET shall review the progress of projects and provide update to the Executive Committee.

(Dr. L. P. Singh)
Director, NMET

To,

The Chairman-cum-Managing Director,
Mineral Exploration Corporation Limited,
Dr. Babasaheb Ambedkar Bhawan,
Seminary Hills, Nagpur-440006

Copy for information & necessary action to:

1. Shri D. Mohanraj, ADG, NM-II & Chairman, NMET TCC, Geological Survey of India, Seminary Hills, Nagpur-440006

Annexure-1A

Preliminary Exploration (G3) of potash in Lakhasar-sub basin, North-Western part of Rajasthan, District- Bikaner, Rajasthan

S. No.	Item of Work	Unit	Base Rate as on 1.4.90	Rate as on 31st march 2019	Escalated rates(2020-21)				Escalated rates (2021-22)			
					Esc. Rate (Rs)	Qty.	Amount (Rs)	Esc. Rate (Rs)	Qty.	Amount (Rs)	Qty.	Amount(Rs)
A	DRILLING											
1	Drilling (3 rigs)*	m	2,551	10,910	10,910	6,400	5,98,24,000	10,910	3,640	3,97,12,400	10,040	10,95,36,400
2	Transportation	Km	8.80	35	35	3,900	1,36,500	35	3,900	1,36500	7,800	2,73,000
3	Accommodation (One time/ Drill)	Nos	1,85,925	7,33,958	7,33,958	3	22,01,874	7,33,958		-	3	22,01,874
4	Camp Setng / Winding	Nos	68,605	2,70,829	2,70,829	3	8,12,487	2,70,829	3	-	6	8,12,487
5	Road Making (Flat Terain)	Km	5,230	20,528	20,528	5	1,02,640	20,528	5	1,02640	10	2,05,280
	Sub Total A				-		7,30,77,501	-		3,99,51,540	-	11,30,29,041
B	GEOLOGICAL WORK				-			-			-	-
1	Survey Party days (1 party)	day	1,180	6,445	6,445	30	1,93,338	6,445	30	1,93338	60	3,86,676
2	Geologist Party days (2 party)	day	1,541	8,590	8,590	360	30,92,400	8,590	340	29,20600	700	60,13,000
3	Core Sampling Party days (2 party)	day	525	3,078	3,078	240	7,38,720	3,078	315	9,69570	555	17,08,290
	Sub-Total B				-		40,24,458	-		40,83,508	-	81,07,966
C	Geophysical studies				-			-			-	-
	a) Borehole Geophysical logging	m	155	557	557	5,200	28,96,400	557	4,840	26,95,880	10,040	55,92,280
	Sub Total C				-		28,96,400	-		26,95,880	-	55,92,280
D	LABORATORY STUDIES				-			-			-	-
	1- Chemical Analysis				-			-			-	-
	i) Primary & Check samples				-			-			-	-
	a. Analysis for 9 Radicals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI (BH core samples)	Nos	718 (76x8-110)	4,155	4,155	1,300	54,01,500	4,155	1,700	70,63,500	3,000	1,24,65,000
	b. Internal (5%) and External (13%) Check samples from MBL Lab for 9 Radicals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI (BH core samples)	Nos	718 (76x8-110)	4,155	4,155	195	8,10,225	4,155	255	10,59,525	450	18,69,750
	ii) Composite Samples				-			-			-	-
	9 Radicals i.e. K,Na,Mg,Cl,Br,I,Li,CaSO4,WI	Nos	718 (76x8-110)	4,155	4,155	50	2,07,750	4,155	150	6,23,250	200	8,31,000
	2- Physical & Petrological Studies				-			-			-	-
ii	X-RD Studies on composite	Nos	1,137	6,187	6,187	10	61,870	6,187	20	1,23740	30	1,85,610
iv)	Specific Gravity determination	Nos	32	205	205	5	1,025	205	10	2,050	15	3,075
	Sub Total -D				-		64,82,370	-		88,71,065	-	1,53,54,435
					-			-			-	-
E	GI Core Boxes	Nos		2,000	2,000	1,000	32,00,000	2,000	910	18,20,000	2,510	50,20,000
	Transportation of core**	KM	8.80	35	35		-	35	600	21,000	600	21,000
	Sub Total -E						32,00,000			18,41,000		50,41,000
F	Total A+B+C+D+E				-		8,95,80,729			5,74,43,993		14,71,24,722
G	Exploration Report-1%of (A+B+C+D+E) or Rs 1,75,000 whichever is more											14,71,247
H	External Peer Review of Geological Report											10,000

13/01/2020

I	Sub Total : G+G+H				–	8,96,80,729			58,935,240		14,86,05,970
J	GST (18% of I)	%			–	1,61,42,531			1,06,04,743		2,67,47,275
K	Grand Total : I to J				–	10,58,23,261			6,95,19,984		17,53,53,244
Note:											Say 1,753.53 Lakh
1	Rates of Goel Committee based on actual escalation as per RBI index as on 31.3.19 and provisional escalation of @ 5% point for Drilling, Laboratory & Geology for subsequent years.										
2	* Copper rates of Goel Committee have been considered, as there is no rates for Potash and the boreholes are to be drilled upto a depth range of 650-700m and there is no factor of escalation of rates at deeper level on pro-rata basis in MoM rates. Total 10,040m in 15 Bhs.										
3	Transportation of rig from Nagpur to Lakhasar: 2600m per rig (to & fro)										
4	** Transportation of core from Lakhasar to GSI core library Jaipur.										

Annexure-1B

S. No	Activities	Unit	Financial year 2020-21													Financial year 2021-22										
			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
			4/20	5/20	6/20	7/20	8/20	9/20	10/20	11/20	12/20	1/21	2/21	3/21	4/21	5/21	6/21	7/21	8/21	9/21	10/21	11/21	12/21	1/22	2/22	3/22
1	Camp Setting	Month																								
2	Drilling (5 rigs operation)	m.																								
3	Survey Party days (1 Party)	day																								
4	Geologist Party days (Parties)	day																								
5	Sampling Party days																									
6	Core Sampling (2 parties)	day																								
6	Geophysical Studies																									
	a) Borehole Geophysical survey	m																								
7	Laboratory Studies	Nos.																								
8	Camp Winding	Month																								
9	Report Writing with Peer review	Month																								
1. Commencement of project may be reckoned from the day the exploration acreage is available along with all statutory clearances.																										
2. Time loss on account of monsoon/agricultural activity/forest clearance/local law & order problem will be additional to above time line subject to the approval of time line by EC.																										

13/02/2020

MINERAL EXPLORATION CORPORATION LTD.

MINERAL EXPLORATION CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
SEMINARY HILLS, NAGPUR-440 006

No. FNA/B/ /PRM/ DATE

TO:
The Director,
Ministry of Mines,
NMET Secretariat,
Room No 114 Wing-F,
Shastri Bhawan,
New Delhi-110001

Subject : Bills in respect of work done by Mineral Exploration Corporation Ltd. in NMET Project

Sir,

Please find enclosed the following bill in respect of work done on NMET basis by the Mineral Exploration Corpn. Ltd.

BILL No. & DATE	NAME OF PROJECT	PERIOD TO WHICH RELATED	NET AMOUNT (Rs.)
4744/PRM/2020-21 27/01/2021	LAKHASAR(NEW)	DEC-2020	60,56,117

REGULAR BILL

It is requested that the bill may kindly be passed and amount remitted to MEC Ltd , Nagpur at an early date.

Yours faithfully,

Encls. : As above

Indrani Laskar
MANAGER(F), Billing
MINERAL EXPLORATION CORP. LTD

Copy alongwith a copy of the above bill forwarded for information to :
1. HOD (BD & Planning), MECL, Nagpur
2. Project Manager, LAKHASAR(NEW) PROJECT DISTRICT: BIKANER RAJASTHAN
The quantity of work for which claim has been raised vide bill attached may please be checked & any discrepancy noticed may please be intimated to Asst. Manager(F&A), CHQ. for rectification.

Indrani Laskar
MANAGER(F), Billing
MINERAL EXPLORATION CORP. LTD

MINERAL EXPLORATION CORPORATION LTD.

CERTIFICATE

Name of Project : LAKHASAR(NEW)

Bill No. & Date : 4744/PRM/2020-21, DT. 27/01/2021

Amount Claimed : Rs. 60,56,117

Period : DEC-2020

: REGULAR BILL

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1) Certified that the workdone so far is within the quantum of Work as given in the Scheme approved by Ministry Vide Lr.No. F.NO.6/2/2015-NMET/ DT 30/03/2020 for Rs 1751.53 Lakhs

2) The bill has been checked & is in order.

3) The rates charged for various items of work done are as per the schedule of rates for the year 2018-19 approved by the Ministry.

4) The Expenses incurred so far on the Project and being claimed is within the overall financial outlay approved for the Project

MANAGER(F), Billing
M.E.C.L

MINERAL EXPLORATION CORPORATION LTD.

PAGE : 1

TAX INVOICE

CLAIM FOR DIRECT WORK DONE IN LAKHDIAN(NEW) BLOCK OF PERIOD UPTO December 2020

Name of Project & Address : LAKHDIAN(NEW), LAKHDIAN PROJECT,RAJASTHAN

CIN : CIN:U13100MH1972GOI016078
BILL NO : 4744/PMR/2020-21, DATE : 27/01/2021 CLIENT: RSMML(GOVT) SANCTION L.NO. & DATE : F.NO.1/2/2015-RMET/ DT.30/03/2020 for Rs.1253.51 Lakhs
Place of Service : BIKANER
State of Service : RAJASTHAN
RSCL CIT NO : BBAAACM5165C1ZH
Place of Supply : BIKANER
State of Supply : RAJASTHAN
Client CIT NO : 07DELMI28048 1DT
SAC Code : 998431/ 998491/ 998361

Whether any Tax Payable Under Reverse Charge - No

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916eac8d182a5d2869
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15ad2915af

Sl. No.	ITEM OF WORK	UNIT	CONNECTED WORK (UNDERGROUND WORK DONE UPTO Last) QTY.	VALUE(Rs.)	DRILL METRES QTY.	VALUE(Rs.)	WORK DONE DURING THE PERIOD QTY.	RATE	ESCALATION %	AMT	Page Leg (1997)	ESCALATED RATE 31/01/2019	VALUE(Rs.)	PROGRESSIVE WORK DONE SINCE INCEPTION QTY.	VALUE(Rs.)
								01/04/1998							
	DRILLING														
1	DRILLING(COPPER/TUNGSTEN/ MULTIMETAL)	(1/1)	/M	11040.00	1095364.00		137.20	2224.00	294.76	7519.00	840.00	10918.00	3470852	137.20	14,79,852
2	MOBILISATION	(15/1)	/K.M.	7000.00	273000		1.00	85.00				85.00	49300	1300.00	45,500
3	ACCOMODATION FOR 11 YEAR	(16/1)	/MONTH	1.00	2203674		1.00	733958.00				733958.00	733958	1.00	7,11,958
4	CAMP SETTING/WINDING	(18/1)	/SHELL/MONTH	6.00	812487		1.00	270829.00				270829.00	270829	1.00	2,70,829
5	TOOL MAINTENANCE	(20/1)	/K.M.	10.00	205200		1.00	20520.00				20520.00	20520	1.00	20,520
	ACTIVITY TOTAL				11,092041		137.20						4740647	137.200	47,49,662
	GEOLOGY														
1	GEOLOGICAL WORK(/PARTY)	(22/1)	/DAY	700.00	4013000		21.00	1541.00	410.54	4327.00	723.00	8591.00	180411	21.00	1,80,411
2	CORE SAMPLING(/ PARTY)	(25/1)	/DAY	535.00	1708290			535.00	410.54	2155.00	892.00	3047.00			
3	DARSHAN(TOPOSHEETS/SURVEY/ PARTY)	(27/1)	/DAY	40.00	366474		5.00	1108.00	410.54	4845.00	420.00	6405.00	32025	5.00	32,025
4	CORE PRESERVATION CHARGES IN WOODEN BOXES AS PER GSI/SIECTT Core Boxes@Rs.2000	(458/1)	/DAY	2510.00	5020000		85.00						170000	85.00	1,70,000
5	Transportation Charges of Core Boxes	(538/2)	/DAY	600.00	21000										
6	Exploration Report	(997/2)	/Doc.		1471247			xxxxxx.xx				xxxxxx.xx			
7	PEER REVIEW REPORT	(999/2)			10000										
	ACTIVITY TOTAL				14630213								382436		3,82,436
	CHEMICAL														
1	Primary & Check-9 Radicals	(82/1)	/SAMPLE	3040.00	12405006			710.00	410.54	2948.00	407.00	4155.00			
2	Interval & Ext. Chk.-9 Rad.	(82/2)	/SAMPLE	450.00	1867750			710.00	410.54	2948.00	407.00	4155.00			
3	Composite Samples-9 Radicals	(83/1)	/SAMPLE	200.00	831000			710.00	410.54	2948.00	407.00	4155.00			
	ACTIVITY TOTAL				15104756										
	GEOPHYSICAL														
1	X RD. ANALYSIS	(102/1)	/SAMPLE	30.00	105210			1137.00	410.54	4668.00	652.00	6187.00			

MINERAL EXPLORATION CORPORATION LTD.

Date Time : 19/01/2021

S.N.	ITEM OF WORK	UNIT	CUMULATIVE WORK DONE UPTO LAST BILL RAISED QTY.	VALUE(Rs.)	WORK DONE DURING THE PERIOD QTY.	RATE	CALCULATION	Rate Inc. %	CALCULATED RATE	VALUE(Rs.)	UPTO PRESENT WORK DONE SINCE INCEPTION QTY.	VALUE(Rs.)
						01/04/1999		(1972)	01/01/2017			
	ACTIVITY TOTAL			185519								
	EXPLORATORY											
1	SPECIFIC GRAVITY DETERMINATION(SG) /SAMPLE		15.00	3075		72.00	410.54	131.00	42.00	205.00		
	ACTIVITY TOTAL			3075								
	TOPOGRAPHY SURVEY											
1	GROUNDWORK GEOPHYSICAL LOGGING (2D/T) /M		18040.00	5592200		172.00	216.05	162.00	43.00	554.00		
	ACTIVITY TOTAL			5592200								
	OTHERS											
1	G.S.I. @ 10%	(1/1)		16740225								
	ACTIVITY TOTAL			16740225								
	TOTAL			172353744						5335383		51,91,383
	GST Tax @9%									461707		461707
	Grand Total									4854117		48,54,117

NET CLAIMS FOR THE MONTH December 2018

(Rupees Forty Lakh Fifty Six Thousand One Hundred Seventeen only)

48,54,117

Authorised Signatory, Kolkata
MECL, NAGPUR

TECHNICAL REPORT FOR THE MONTH OF DECEMBER-2020

Details of Project				Date of Commence ment	Achievement						Balance Work
					During the period 10.12.2020 to 31.12.2020		During the Year 2020-2021		Cumulative Since inception Upto 31.12.2020		
Name of the Project, Mineral & Activity	Total Work Sanctioned	Total sanction ed Cost (Rs. Lakh)	Time Schedule (Month)		Work Done	Value (Rs. Lakh)	Work Done	Value (Rs. Lakh)	Work Done	Value (Rs. Lakh)	
Lakhasar (G-3) Block Potash Distt. Bikaner, Rajasthan Geological Mapping, Drilling & associated works.	10040 m	1753.53 Lakhs	24 months	December-2020 (10th December, 2020)	337.20 drilling	**60.56**	337.20 drilling	**60.56**	337.20 drilling	**60.56**	**9702.80m**

Note: Rs. 9,23,814.00 is claimed towards CGST (9%) and SGST (9%) for the month of December 2020.

Remarks: Geological Mapping Drilling work in the Block was commenced during the month of December-2020 (10th December-2020). During the period from 10.12.2020 to 31.12.2020 (December- 2020), Drilling (337.20m m in 1 running Bh) & associated works carried out. Drilling & associated works are in progress.

NOTE:

1. **Block approved by EC in its 16th Meeting held on 6th March, 2020.**
2. **Commencement of exploration work was delayed due to Covid-19 nationwide lockdown and movement restrictions.**

B.P. Raturi
GM (Exploration/GS)
महाप्रबंधक (पर्यवेक्षण) एवं (भू.वैज्ञा.)
GM (Exploration) & (G.S.)
एम.ई.सी.एल., नागपुर
M.E.C.L., Nagpur

MINERAL EXPLORATION CORPORATION LTD.

MINERAL EXPLORATION CORPORATION LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
SEMINARY HILLS, NAGPUR-440 006

No. TNA/B/ /PRM/ DATE :

TO,
The Director,
Ministry of Mines,
NMET Secretariat,
Room No. 114 Wing-F,
Shastri Bhawan,
New Delhi-110001.

Subject : Bills in respect of work done by Mineral Exploration Corporation Ltd. in NMET Project

Sir,

Please find enclosed the following bill in respect of work done on NMET basis by the Mineral Exploration Corpn. Ltd

BILL No. & DATE	NAME OF PROJECT	PERIOD TO WHICH RELATED	NET AMOUNT (Rs.)
4751/PRM/2020-21 05/02/2021	LAKHASAR(NEW)	JANUARY 2021	64,45,028

REGULAR BILL

It is requested that the bill may kindly be passed and amount remitted to MEC Ltd., Nagpur at an early date

Yours faithfully,

Enclo. : As above

MANAGER(F), Billing
MINERAL EXPLORATION CORP. LTD.

Copy alongwith a copy of the above bill forwarded for information to :
1. HOD (PD & Planning), MECL, Nagpur
2. Project Manager, LAKHASAR(NEW) PROJECT DISTRICT BIKANER RAJASTHAN
The quantity of work for which claim has been raised vide bill attached may please be checked & any discrepancy noticed may please be intimated to Asst. Manager(F&A), CHQ, for rectification

MANAGER(F), Billing
MINERAL EXPLORATION CORP. LTD.

Computer Forms (P) Ltd., Ph.: 27184248/49

MINERAL EXPLORATION CORPORATION LTD.

CERTIFICATE

Name of Project	LAKHADARI(NSW)
Bill No. & Date	4751/PRM/2020-21, DT 05/02/2021
Amount Claimed	Rs 64,45,029
Period	JANUARY 2021
	REGULAR BILL

1) Certified that the workdone so far is within the chanlum of Work as given in the Scheme approved by Ministry Vide Lr No F.NO 6/2/2015-NMET/ DT 30/03/2020 for Rs 1753.50 Lakhs

2) The bill has been checked & is in order

3) The rates charged for various items of work done are as per the schedule of rates for the year 2019-19 approved by the Ministry

4) The Expenses incurred so far on the Project and being claimed is within the overall financial outlay approved for the Project.

Tridibesh Sarkar
MANAGER(F), Billing
M.E.C.L

Computer Forms (P) Ltd. Ph: 27614424/4436

MINERAL EXPLORATION CORPORATION LTD.

Bill Date : 04/02/2021

PAGE : 1

Inc [illegible]

CLAIM (OR ORE) WORK DONE IN LUKHNADAM(MP)(LIG) BLOCK OF PO/MEM UPTO January - 2021

Name of Project & Owner:- LUKHNADAM(MEM)_

GSTN : GSTN:[illegible]

Bill NO : 4951/MEM/2020-21, DATE : 05/02/2021 CLIENT: MINISTRY(OMC) SAMCTION L.NO & DATE : F.NO.4/2/2015-OMC1/ DT 30/03/2020 for Rs.1751.51 Lakhs

Place of Service :

State of Service :

HSN/ ACT NO :

Place of Supply : AIRAMER

State of Supply : MAHARITHRA

Client GST NO : 07AFLM12904B1ZF

SAC Code : 998345/ 998341/ 998342

Quarter say Tax Payable Under Reverse Charge - No

S.N.	ITEM OF WORK	UNIT	TARGETED WORK LOAD/ GOAL DONE UPTO (+/-) WELL WORKED		WORK DONE DURING THE PERIOD						PREVIOUSLY WORK DONE SINCE INCEPTION	
			QTY	VALUE(Rs.)	QTY	VALUE(Rs.)	QTY	RATE 01/04/1999	CALCULATION Wage Imp. 2 AMT	CALCULATED RATE (1997)	VALUE(Rs.) 01/03/2021	QTY	VALUE(Rs.)
	A)DRILLING												
1	ORILLING(COPPER/THREETEN/ MULTIMETAL)	(1/1)	/M	13040.00	10953640	337.20	447954	160.50	252.00	294.74	7519.00	848.30	10710.30	3538855	697.70	74,11,907
2	TRANSPORTATION	(15/1)	/K.M	7000.00	21000	1000.00	45200	100.00	35.00				35.00	45200	2600.00	91,000
3	ACCOMODATION FOR 11 YEAR	(1A/1)	/UNIT	3.00	2201874	1.00	733958	1.00	733958.00				733958.00	733958	2.00	14,67,916
4	CAMP SETTING/DISMAN	(1B/1)	/UNIT/MONTH	6.00	812407	1.00	270029	1.00	270029.00				270029.00	270029	2.00	5,40,058
5	ROAD MAKING(FLAT TERRAIN)	(20/1)	/K.M	10.00	205200	1.00	20520		20520.00				20520.00		1.00	20,520
	ACTIVITY TOTAL			13,00,29,001		337.200	4749467	160.50						4883343	697.700	97,33,000
	B)GEOLOGY															
1	GEOLOGICAL WORK(/PARTY)	(22/1)	/DAY	700.00	4013000	31.00	180661	11.00	1541.00	410.56	6327.00	723.00	8591.00	244821	52.00	4,46,732
2	CORE SAMPLING(/ PART)	(25/1)	/PART	555.00	1786290				525.00	410.56	2155.00	297.00	2077.00			
3	SURFACE(TOPOGRAPHICAL)SURVEY(/ PART)	(23/1)	/DAY	60.00	355673	5.00	32225	5.00	2100.00	410.56	8615.00	420.00	8485.00	32225	10.00	84,850
4	CORE PRESERVATION CHARGES IN BOXES AS SHEETS Core Boxes@Rs.3000	(26/1)	/UNIT	2110.00	5830000	85.00	170000	50.00						180000	175.00	1,50,000
5	Transportation Charges of Core Boxes	(52/1)	/UNIT	600.00	21000											
6	Exploration Report	(177/2)	/Nos.		1471250				[illegible]				[illegible]			
7	PEER REVIEW REPORT	(999/2)			19000											
	ACTIVITY TOTAL				14436217		383136							470546		8,11,582
	C)CHEMICAL															
1	Primary & Check-I Materials	(42/1)	/SAMPLE	9000.00	12465000				718.06	410.56	2940.00	409.00	4155.00			
2	Internal & Ext. Chk.-II Mat.	(42/2)	/SAMPLE	450.00	1869750				718.06	410.56	2940.00	409.00	4155.00			
3	Composite Samples-I Materials	(42/3)	/SAMPLE	200.00	831000				718.06	410.56	2940.00	409.00	4155.00			
	ACTIVITY TOTAL				15165750											
	D)PHYSICAL															
1	X RD ANALYSIS	(112/1)	/SAMPLE	30.00	105420				1137.00	410.56	4648.00	512.00	4387.00			

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MINERAL EXPLORATION CORPORATION LTD.

BILL DATE: 04/01/2021 PAGE: 2

S.NO	ITEM OF WORK	UNIT	CONSUMED WORK DONE UPTO LAST BILL		BILL BASED		WORK DONE DURING THE PERIOD							PERMANENTLY WORK DONE SINCE INCEPTION	
			QTY	VALUE(Rs.)	QTY	VALUE(Rs.)	SIT	DATE	EXCAVATION	&	QRT	Wedge Svy (CVRD)	DATE	VALUE(Rs.)	QTY	VALUE(Rs.)
								01/04/1999					31/03/2019			
	ACTIVITY TOTAL			185622												
	C)PETROLOGY															
1	SPECIFIC GRAVITY DETERMINATION(S.G.) /SAMPLE		15.00	345				22.00	418.56		132.00	42.00	185.00			
	ACTIVITY TOTAL			345												
	F)GEOPHY SURVEY															
1	BOREHOLE GEOPHYSICAL LOGGING (2)(3) /M		100.00	1572280				153.00	714.85		142.00	41.00	554.00			
	ACTIVITY TOTAL			1572280												
	G)BASIC															
1	G.S.T. @ 18%	(1/1)		2674775												
	ACTIVITY TOTAL			2674775												
	TOTAL			175353249		5122583								5461888		1,05,54,191
	CGST Tax @6%													491570		953477
	Grand Total													5953458		1,25,01,145
	LESS BILL AMOUNT RAISED VIDE LAST BILL NO. 4704/PRM/2020-21, DATED 27/01/2021															60,56,117
	NET CLAIMS FOR THE MONTH January 2021															64,45,028

(Rupees Sixty Four Lakh Fourty Five Thousand Twenty Eight only)

MANAGER(F), Kolliegal
MECL, NAGPUR

Computer Forms (P) Ltd. Ph.: 9704-2424646

TECHNICAL REPORT FOR THE MONTH OF JANUARY-2021

Details of Project				Date of Commencement	Achievement						Balance Work
					During the period 01.01.2021 to 31.01.2021		During the Year 2020-2021		Cumulative Since inception Upto 31.01.2021		
Name of the Project, Mineral & Activity	Total Work Sanctioned	Total sanctioned Cost (Rs. Lakh)	Time Schedule (Month)		Work Done	Value (Rs. Lakh)	Work Done	Value (Rs. Lakh)	Work Done	Value (Rs. Lakh)	
Lakhasar (G-3) Block Potash Distt. Bikaner, Rajasthan Geological Mapping, Drilling & associated works	10040 m	1753.53 Lakhs	24 months	December-2020 (10th December, 2020)	360.50m drilling	**64.45**	697.70m drilling	**125.01**	697.70m drilling	**125.01**	**9342.30m**
Note: Rs. 9,83,140.00 is claimed towards CGST (9%) and SGST (9%) for the month of January 2021.											

Remarks: Geological Mapping Drilling work in the Block was commenced during the month of December-2020 (10th December-2020). During the period from 01.01.2021 to 31.01.2021 (January- 2021), Drilling (360.50m m in 2 running Bhs) & associated works carried out. Drilling & associated works are in progress.

NOTE:

1. **Block approved in the 16th Meeting of EC of NMET held on 6th March, 2020.**
2. **Commencement of exploration work was delayed due to Covid-19 nationwide lockdown and movement restrictions.**

08/02/2021

B.P. Raturi
GM (Exploration/GS)
Bhagwati Prasad Raturi
भगवती प्रसाद रतूड़ी
GM (Exploration & GS)
महाप्रबंधक (अन्वेषण एवं भू. से.)
Mineral Exploration Co. Ltd.
मिनरल एक्सप्लोरेशन कार्पोरेशन लिमिटेड