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*The committee recommended the proposal for the approval of EC for "Preliminary exploration (G3) for molybdenum in Vellakkal North Block (2.90 Sq.Km.) & Vellakkal South Block (1.55 Sq.Km.), Uttangarai Sector, Haru-Uttangarai Belt, District-Krishnagiri, Tamil Nadu" with an estimated cost of Rs. 911.82 lakhs (including GST) within time schedule of 15 months and submission of report as per Annexures 4A & 4B. The item will be reviewed after 6 & 12 months subsequently.*

**Agenda 70.1.6. Preliminary Exploration (G-3) for Limestone in Mundra-Chilalblock Block (4.38 Sq. km) District- Yavatmal, Maharashtra.**

**[Implementing Agency: MECL]**

- a) The proposed Mundra-Chilai Limestone block, part of the Penganga Beds (SOI toposheet no. 55I/13), is based on lapsed lease areas around Hiradhwara village, granted under section 10(A) 2(B) of the MMDR Act-15.
- b) The Directorate of Geology and Mining (DGM), Maharashtra, requested MECL to explore these areas vide letter no. Tech/1848/2023/260, dated 23/01/2024, located east of the Hiwardhara lapsed lease area where limestone was reported.
- c) During 2004-2005, M/s Bajrang Sales Pvt. Ltd. conducted prospecting in the Hiwardhara area (39.98 hectares), establishing a limestone resource of 4.0 million tons (CaO:30.50%-51.00%, MgO:2.00%-19.30%, and SiO<sub>2</sub>: 2.8%-8.0%).
- d) The proposed exploration block lies east of the Hiwardhara lease area. MECL conducted field visits in the Hiradhwara, Ganeshpura, Mundra, and Chilal areas and collected four samples, yielding analyses of 34.27%-54.50% CaO, 0.69%-16.62% MgO, and 0.81%-3.68% SiO<sub>2</sub>.
- e) Based on the exploration data, field observations, and demand for limestone, MECL proposed to conduct Preliminary Exploration (G-3) in the Mundra-Chilal Block.

**Recommendation of TCC:**

*The committee recommended the proposal for the approval of EC for "Preliminary Exploration (G-3) for Limestone in Mundra-Chilalblock Block (4.38 Sq. km) District- Yavatmal, Maharashtra" with an estimated cost of Rs. 90.63 lakhs (including GST) within time schedule of 10 months and submission of report as per Annexures 5A & 5B. The item will be reviewed after 4 months.*

**Agenda 70.1.7. Preliminary Exploration (G-3) for Limestone in Hiwardhara-Ganeshpura Block (2.81 Sq. km) District- Yavatmal, Maharashtra.**

**[Implementing Agency: MECL]**

- a. The proposed Hiwardhara-Ganeshpura Limestone block, part of the Penganga Beds (SOI toposheet no. 55I/13), based on lapsed lease areas granted by the State Government of Maharashtra in and around Hiwardhara and Ganeshpura villages, Zari-Jamni and Wani Tehsil, Yavatmal.

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- b. The Directorate of Geology and Mining (DGM), Maharashtra, requested MECL to explore these lapsed 10(A) 2(B) mining lease areas vide their letter no. Tech/1848/2023/260, dated 23/01/2024."
- c. In 2004-2005, M/s Bajrang Sales Pvt. Ltd. prospected 39.98 hectares in the Hiwardhara area, establishing a limestone resource of 4.0 million tons with sample analysis showing CaO from 30.50%-51.00%, MgO from 2.00%-19.30%, and SiO<sub>2</sub> from 2.8%-8.0%.
- d. MECL later reviewed the DGM data and observed surface limestone indications in the area, collecting three additional samples that yielded CaO from 37.34%-52.10%, MgO from 0.70%-9.03%, and SiO<sub>2</sub> from 3.94%-8.60%.
- e. Considering the request of DGM, Maharashtra, available exploration data, field visit by MECL geologists and demand for limestone, MECL has planned to carry out exploration in the Hiwardhara-Ganeshpura Block.
- f. The committee advised MECL to modify the block excluding railways, roads falling within the boundary and reconcile the target.

**Recommendation of TCC:**

***The committee recommended the proposal for the approval of EC for "Preliminary Exploration (G-3) for Limestone in Hiwardhara-Ganeshpura Block (2.81 Sq. km) District- Yavatmal, Maharashtra" with an estimated cost of Rs. 93.84 lakhs (including GST) within time schedule of 10 months and submission of report as per Annexures 6A & 6B. The item will be reviewed after 4 months.***

**Agenda 70.1.8. Preliminary Exploration (G-3) for Gold and associated minerals in Killarhatti Block, Koppal & Raichur Districts, Karnataka.  
[Implementing Agency: Mining Tech Consultancy Services Ltd]**

- a) Killarhatti block is part of Hungund-Kushtagi Schist belt and falls within the Survey of India Toposheet no. 57 A/5.
- b) The area is known for its gold mineralization potential. Gold mineralization was reported by the Geological Survey of India (GSI) near Amrapur and Killarhatti villages, particularly along the contact zones of banded iron formations (BIF) and schistose rocks, where significant signs of historic mining activity and alteration processes, such as shearing, brecciation, silicification, and carbonatization, have been observed.
- c) Geochemical analyses of samples from these workings indicated gold values ranging from <0.1 g/t to 1 g/t Au. Recent studies under the Regional Mineral Targeting program (2019-22) carried out by GSI yielded promising results, prompting GSI to recommend further exploration, particularly in the area between the Amrapur and Killarhatti blocks.
- d) The proposal was already granted in-principle approval for G3-level exploration. Hence, MTCS has proposed this G3 stage item within the Killarhatti Block to further assess its mineral potential.
- e) Upon review, the committee advised MTCL to consult the recent G4 stage of GSI in the area and incorporate the outcome. Accordingly, MTCS modified and presented the G4 stage proposal incorporating the suggestions given by the committee.

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## Annexure 6A

**Estimate Cost for Preliminary Exploration (G-3) for Limestone in Hiwardhara-Ganeshpura Block (2.81 Sq. km) District- Yavatmal, Maharashtra**  
**Total Area - 5.72 Sq Km; Nos. of Borehole - 06; 300M Borehole depth range - 50m (BGL); Completion Time - 10 Months, Review: 4 months**

| S.N      | Item of Work  | Unit                | Rates as per NMET SoC 2020-21 |                  | Estimated Cost of the Proposal |                   | Remarks  |
|----------|---|---------------------|-------------------------------|------------------|--------------------------------|-------------------|--|
|          |   |                     | SoC-Item -SI No.              | Rates as per SoC | Qty.                           | Total Amount (Rs) |  |
| <b>A</b> | <b>GEOLOGICAL WORK</b>  |                     |                               |                  |                                |                   |  |
| <b>1</b> | <b>Mapping (1:4000), Borehole logging &amp; Sampling &amp; Report writing, including Topographic survey</b> |                     |                               |                  |                                |                   |  |
| a        | Charges for one Geologist per day at HQ   | day                 | 1.3a                          | 9,000            | 30                             | 2,70,000          |  |
| b        | Charges for one Geologist per day at field  | day                 | 1.3b                          | 11,000           | 100                            | 11,00,000         |  |
| c        | Labour for Geologist (2 Nos)  | day                 | 5.7                           | 522              | 200                            | 1,04,400          | Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
| d        | Charges for one Sampler per day (1 Party)   | one sampler per day | 1.5.2                         | 5,100            | 39                             | 1,98,900          |  |
| e        | Labours for sampling work (4 Nos)   | day                 | 5.7                           | 522              | 156                            | 81,432            | Amount will be reimbursed as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |

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| <b>2</b> | <b>Survey (on 1:4000 Scale)</b>   |                          |          |        |     |                  |   |
| a        | Bore Hole Fixation and determination of co-ordinates & Reduced Level of the boreholes and block cardinal points by DGPS | Per Point of observation | 1.6.2    | 19,200 | 25  | 4,80,000         | Block cardinal point- 19 Borehole- 6  |
| b        | Charges of one Surveyor (1 Party)   | one surveyor per day     | 1.6.1a   | 8,300  | 30  | 2,49,000         | Contouring at 2m interval   |
| c        | Labours (4 Nos)   | day                      | 5.7      | 522    | 120 | 62,640           | Amount will be reimburse as per the notified rates by the Central Labour Commissioner or respective State Govt. whichever is higher |
|          | <b>Sub-Total A</b>  |                          |          |        |     | <b>25,46,372</b> |   |
| <b>B</b> | <b>DRILLING</b>   |                          |          |        |     |                  |   |
| 1        | Drilling -Soft rock   | m                        | 2.2.1.1b | 7,168  | 300 | 21,50,400        | MoC Rate  |
| 2        | Land / Crop Compansation (in case the BH falls in agreeecultural Land)  | per BH                   | 5.6      | 20,000 | 6   | 1,20,000         | Amount will be reimburse as per actuals or max. Rs. 20000 per BH with certification from local authorities                          |
| 3        | Construction of concrete Pillar (12"x12"x30")   | per borehole             | 2.2.7a   | 2,000  | 25  | 50,000           | Block cardinal point- 19 Borehole- 6  |
| 4        | Transportation of Drill Rig & Truck associated per drill  | Km                       | 2.2.8    | 36     | 400 | 14,400           | To & fro  |
| 5        | Monthly Accomodation Charges for drilling Camp (up to 1 Rigs)   | month                    | 2.2.9    | 50,000 | 3   | 1,50,000         |   |

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|-------------|---|-------|---------|----------|-----|------------------|---|
| 6           | Drilling Camp Setting Cost  | Nos   | 2.2.9a  | 2,50,000 | 1   | 2,50,000         |   |
| 7           | Drilling Camp Winding up Cost   | Nos   | 2.2.9b  | 2,50,000 | 1   | 2,50,000         |   |
| 8           | Road Making (Flat Terrain)  | Km    | 2.2.10a | 22,020   | 5   | 1,10,100         | Road Making will be considered as per the requirement and Road Making Charges will be reimbursed accordingly. |
| 9           | Drill Core Preservation   | per m | 5.3     | 1,590    | 270 | 4,29,300         |   |
|             | <b>Sub Total B</b>  |       |         |          |     | <b>35,24,200</b> |   |
| <b>C</b>    | <b>LABORATORY STUDIES</b>   |       |         |          |     |                  |   |
| <b>1</b>    | <b><u>Chemical Analysis</u></b>   |       |         |          |     |                  |   |
| <b>i)</b>   | <b>Primary samples</b>  |       |         |          |     |                  |   |
|             | a. For 10 radicals i.e. CaO, MgO, Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O and LOI by XRF | Nos   | 4.1.15a | 4,200    | 280 | 11,76,000        | 10 BRS, 270 Core samples  |
| <b>ii)</b>  | <b>External Check samples (10%)</b>   |       |         |          |     |                  |   |
|             | a. For 10 radicals i.e. CaO, MgO, Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , SO <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , K <sub>2</sub> O, Na <sub>2</sub> O and LOI by XRF | Nos   | 4.1.15a | 4,200    | 28  | 1,17,600         |   |
| <b>iii)</b> | <b>Petrological samples ( Bh Core Samples)</b>  |       |         |          |     |                  |   |
| <b>i</b>    | Preparation of thin section   | Nos   | 4.3.1   | 2,353    | 5   | 11,765           |   |
| <b>ii</b>   | Study of Thin Section   | Nos   | 4.3.4   | 4,232    | 5   | 21,160           |   |
| <b>iv)</b>  | <b>Bulk Density Determination</b>   |       |         |          |     |                  |   |

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|----------|---|---|-------------------------------|-----------|---|------------------|---|
|          | Bulk Density  | No.   | 4.1                           | 3,540     | 2 | 7,080            |   |
|          | <b>Total - C</b>  |   |                               |           |   | <b>13,33,605</b> |   |
| <b>D</b> | <b>Sub Total (A to C)</b>   |   |                               |           |   | <b>74,04,177</b> |   |
| <b>E</b> | <b>Geological Report Preparation</b>  |   | <b>5.2</b>                    | <b>ii</b> |   | <b>3,70,209</b>  | EA has to submit the final Geological Report in Hard Copies (5 Nos) and soft copy to NMET   |
| <b>F</b> | <b>Preparation of Exploration Proposal<br/>(5 Hard copies with a soft copy)</b> | <b>5 Hard<br/>copies with<br/>a soft copy</b> | <b>5.1</b>                    |           |   | <b>1,48,084</b>  | EA has to submit the Hhard copies and soft copies of final proposal along with maps and plan as suggested by the TCC-NMET in its meeting while clearing the proposal. |
| <b>G</b> | <b>Peer review Charges</b>  |   | <b>As per EC<br/>decision</b> |           |   | <b>30,000</b>    |   |
| <b>H</b> | <b>Total Estimated Cost without<br/>GST</b>                                     |   |                               |           |   | <b>79,52,469</b> |   |

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|-------|--|---|--|---------------------|--|-----------|---|
| I     | Provision for GST (18% of H)   | % |  |                     |  | 14,31,444 | GST will be reimburse as per actual and as per notified prescribed rate |
| J     | Total Estimated Cost with GST  |   |  |                     |  | 93,83,914 |   |
|       |  |   |  | <i>Rs. In Lakhs</i> |  | 93.84     |   |
| Note: |  |   |  |                     |  |           |   |
| 1     | Strict adherence to the Ministry of Finance's and GFR guidelines is mandatory. Every transaction must adhere to GFR rule 21.   |   |  |                     |  |           |   |
| 2     | In case of delay/non- performance, the appropriate action will be taken by competent authority against delinquent agency as per prevailing govt. of India rules/guidelines on procurement.   |   |  |                     |  |           |   |
| 3     | If any part of the project is outsourced, the amount will be reimbursed as per the Paragraph 3 of NMET SoC and Item no. 6 of NMET SoC. In case of excusion of the project by NEA on its own, a Certifiante regarding non outsourcing of any component/project is required. |   |  |                     |  |           |   |
| 4     | Necessary efforts should be made to minimize any adverse impact on the environment during exploration activities.  |   |  |                     |  |           |   |

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| Annexure 6B  |  |       |        |   |   |   |        |   |   |   |   |   |    |
|--|--|-------|--------|---|---|---|--------|---|---|---|---|---|----|
| Time schedule/ Action Plan for Preliminary Exploration (G-3) for Limestone in Hiwardhara-Ganeshpura Block (2.81 Sq. km) District- Yavatmal, Maharashtra. |  |       |        |   |   |   |        |   |   |   |   |   |    |
| Sl. No.  | Activities                                   | Unit  | MONTHS |   |   |   |        |   |   |   |   |   |    |
|  |  |       | 1      | 2 | 3 | 4 | Review | 5 | 6 | 7 | 8 | 9 | 10 |
| 1  | Camp Setting                                 | Month |        |   |   |   |        |   |   |   |   |   |    |
| 2  | Surface Drilling (1 rig)                     | m.    |        |   |   |   |        |   |   |   |   |   |    |
| 3  | Survey Party days (1 Party)                  | day   |        |   |   |   |        |   |   |   |   |   |    |
| 4  | Geologist Party days in field (1 Party)      | day   |        |   |   |   |        |   |   |   |   |   |    |
| 5  | Sampling Party days, Core Sampling (1 party) | day   |        |   |   |   |        |   |   |   |   |   |    |
| 6  | Camp Winding                                 | Month |        |   |   |   |        |   |   |   |   |   |    |
| 7  | Laboratory Studies                           | Nos.  |        |   |   |   |        |   |   |   |   |   |    |
| 8  | Geologist Party days in HQ (1 Party)         | day   |        |   |   |   |        |   |   |   |   |   |    |
| 9  | Geological Report Writing with Peer Review   | Month |        |   |   |   |        |   |   |   |   |   |    |

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