Government of India
Ministry of Mines
NATIONAL MINERAL EXPLORATION TRUST (NMET)

Minutes of the 6th meeting of the Executive Committee of National Mineral Exploration Trust (NMET) held on 11th January 2018.

The 6th meeting of the Executive Committee of National Mineral Exploration Trust (NMET) was held under the Chairmanship of Shri Arun Kumar, Secretary, Mines, on 11th January 2018, in Khanij Kaksh, Ministry of Mines, Shastri Bhawan, New Delhi.

Secretary, Mines welcomed the delegates. A round of introduction by the delegates followed.

Shri Niranjan K. Singh, Joint Secretary, Mines and Member Secretary, NMET also welcomed the participants. Agenda-wise discussions followed.

The list of participants is at **Annexure-I**.

6.1 Discussion on ATR of the 5th meeting of Executive Committee

6.1.1 Accounting procedure for NMET

Joint Secretary, Mines informed that the accounting procedure for utilization of NMET funds has been prepared and it is expected to be finalized during the current financial year. After finalization, the accounting procedure will be notified and circulated to States for compliance.

It is proposed that the States will collect the NMET contribution in their Public Account and transfer these funds to the Consolidated Fund of India (CFI). From CFI, the funds will be transferred to Public Account of India. After due appropriation of funds and receipt of sanction of Competent Authority, the expenditure on approved projects of NMET would be incurred.

(Action: All States)

6.1.2 Status of NMET fund

The NMET fund is maintained in a current account in State Bank of India Main Branch, New Delhi. The account is linked to CLTD scheme and the bank is offering optimal interest of 6.5% for retail term deposits. As on 05.01.2018, the NMET account has accrued an amount of Rs. 1055 Crore.

6.1.3 Reconciliation and accrual of funds received from States

As per the decision of 5th EC, three meetings were carried out under the Chairmanship of Additional Secretary, Mines to facilitate the issue of reconciliation of NMET funds. Two meetings involved officials from SBI; Joint Secretary & Financial Advisor, Mines; CCA, Mines and NMET Secretariat. In the third meeting, representatives from 11 State DGMs had participated. The States were issued instruction to provide clear

account of NMET funds collected. It was emphasized in the meeting that the responsibility of collection and transfer of NMET funds lies with the States and IBM has the statutory role of compilation and verification of royalty collection by States. NMET Secretariat has carried out the exercise of reconciliation of NMET funds on the basis of statements received from States, coordinating with the States and by visiting some States. This has resulted in substantial improvement in the status of reconciliation of funds.

Secretary, Mines observed that according to the available records, there is mismatch of the royalty collected by States, NMET due and NMET transferred to the central NMET account by the States. In case of Rajasthan, the state has not provided any royalty figures so far. He further observed that the statutory responsibility of compilation of royalty figures lies with IBM. IBM has to send the reports for all financial years after verification with States at the earliest.

(Action: CG, IBM)

Joint Secretary, Mines stated that as the States are having audited figures of royalty, they may send the audited royalty figures for F.Y. 2015-16 and 2016-17 to IBM so that the figures can be matched for calculation of NMET.

(Action: All States)

Secretary, Mines also observed that in case of some States like Chhattisgarh, Gujarat, Jammu & Kashmir, Jharkhand, Karnataka, Madhya Pradesh, Maharashtra, Odisha, Tamil Nadu and Telangana, the amount of NMET contribution transferred to the central NMET account by the States is less than the actual NMET due as per 2% of royalty collected by them. He advised that Additional Secretary, Mines may write to the Chief Secretaries of the concerned States to resolve the issue.

(Action: NMET Secretariat.)

Secretary, Mines also advised that Additional Secretary, Mines may review the status of reconciliation of NMET funds every 15 days, involving Joint Secretary & Financial Advisor Mines; Joint Secretary/ Advisor, M/o Coal; IBM and NMET Secretariat.

(Action: Jt. Secretary/ Advisor, M/o Coal; JS & FA, Mines; IBM; NMET Secretariat)

Joint Secretary & Financial Advisor, Mines stated that IBM has the statutory responsibility of collection of royalty figures from States and the issue has been flagged in various earlier meetings. IBM has not been performing their duties diligently. IBM has to provide the data on a priority basis.

(Action: IBM)

Ministry of Mines has written to Ministry of Coal to develop a mechanism for close monitoring and review of NMET contribution paid by the lease holders, and reconciliation of figures with the respective State Governments. Advisor, Ministry of Coal replied that the Ministry of Coal will respond to Ministry of Mines on this issue.

(Action: Advisor, Ministry of Coal)

Citing the recent verdict of the Single Bench of Chhattisgarh High Court at Bilaspur that, the contribution towards NMET would be payable from 14.08.2015, DGM

Chhattisgarh sought directives from the Executive Committee as to the actual date of collection of the same. Secretary, Mines stated unlike DMF, where the rates were not prescribed by the Central Government on the date of establishment of the DMFs through MMDR Amendment Act, 2015, there is no ambiguity in case of NMET where the rates were prescribed at the rate of 2% equivalent of the royalty from the date MMDR Amendment Act 2015 came into effect i.e. 12.01.2015. He directed that Chhattisgarh may contest the case in the Double Bench.

(Action: DGM, Chhattisgarh)

DGM, Chhattisgarh also stated that they are facing some problem in uploading the data pertaining to coal in the website. It was advised that the State may continue sending the hard copy statements on a monthly basis to NMET.

(Action: DGM, Chhattisgarh)

6.1.4 Peer review of reports / Inclusion of material from DGMs

Presently, MECL is sending their exploration reports directly to the peer reviewers. Secretary, Mines directed that the exploration agencies may send their reports to the experts from the approved list of peer reviewers under intimation to NMET. As decided in 5th EC, an honorarium of Rs. 10,000 per report will be payable to the reviewers. The proposal for 15% handling charges for getting the reports peer reviewed as proposed by MECL was declined by the Executive Committee.

(Action: MECL/ All other exploration agencies)

DGM, Chhattisgarh enquired about the procedure in case the State Governments want to include additional information in the reports submitted by the exploration agencies to improve the quality of the reports. It was informed that the State DGMs can send their information for incorporation in reports to the exploration agency executing the project.

(Action: All DGMs)

6.1.5 NMET funding for Capacity Building

Secretary, Mines directed that as per the decision of 5th EC, GSI may develop specialized course curriculum for capacity building of State DGMs. Subsequently, Osmaina University, IIT (Hyderabad) and IIIT (Hyderabad) can be given funds for running these programs for capacity building of the State DGMs/ officials.

(Action: GSI)

Dr. P. R. Golani, Member, EC, NMET informed that in some of the customized courses conducted by GSI Training Institute for State DGM/ officials, there was not sufficient participation. Secretary, Mines advised that customized capacity building courses may be conducted even upto participation of 10 representatives from State DGMs as capacity building is essential.

6.1.6 Recovery and preservation of drill cores

Dr. P. R. Golani, Member, EC, NMET informed that as per the recommendations of the 9th meeting of TC, core recovery should be at least 95% in the mineralized zones and 90% in the rest of the boreholes. For soft rocks, there should be minimum 80% core recovery. Any shortfall from these recommended benchmarks need to be justified by the exploring agency and reviewed by a Technical Committee headed by the National Mission Head-II of GSI.

Chairman, TCC, NMET informed that TCC has recommended in its 12th meeting that the skeletonized cores of the mineralized zones and one set of cores representing the entire stratigraphic succession may be sent by the exploration agencies to the regional core libraries of GSI. The core libraries can provide facilities for students/researchers to study the cores at the core libraries.

In the 5th meeting of EC, it was decided that TCC, NMET will prepare a comprehensive guideline for recovery and preservation of cores. TCC has not prepared it. It was advised that TCC, NMET will develop guidelines for recovery and preservation of cores and present it in the next EC meeting.

(Action: TCC, NMET)

AMD informed that they have regional core libraries in addition to a centralized core library where parts of core with radioactive minerals are being preserved and these are also being used for training purposes.

6.1.7 Tripartite Agreement with States

MECL informed that so far tripartite agreement have been signed with 12 States and they are in communication with 15 other States for signing of the tripartite agreement.

6.1.8 Developing of new projects

As per the decision of 5th EC, MECL has submitted an estimate for developing project proposals for State DGMs. The cost proposals from NMDC and KIOCL are awaited despite reminders. TCC, NMET has deliberated on the issue in its 12th meeting and on the basis of the estimate proposed by MECL has fixed a cost of Rs. 3.8 Lakh for preparation of project proposals asked to be prepared by States upto 2017-18. Thereafter, the rates shall stand revised and be notified on the basis of CPI index increase for the full year ending 30th September for indexation wef 1st April of subsequent year and full year ending 31st March for the rates wef 1st October. The amount can be claimed in the NMET proposal if the proposal gets finally approved. These rates shall apply to NMDC and KIOCL as well. Other agencies may also apply to be so nominated for this work if they so desire. This will give a fillip to fully prepared proposals being posed to NMET.

6.2 Finalization of Annual Plan and Annual Budget for F.Y. 2017-18

The Executive Committee approved the proposed annual budget of Rs. 100 Crore

for the year 2017-18. EC also approved annual budget of Rs. 400 Crore for the year 2018-19.

6.3 Submission of Annual Reports for F.Y. 2015-16 and F.Y. 2016-17

The Executive Committee approved the annual reports for F.Y. 2015-16 and F.Y. 2016-17 as marginally modified and attached. It will be submitted to Ministry of Mines.

6.4 Monitoring mechanism for NMET funded projects

It was decided that as the NMET approved projects are being implemented by Central PSUs/ State Government/ State PSUs, these agencies may follow their own monitoring mechanism. Further, Secretary, Mines directed that TCC, NMET will review the progress of ongoing projects and provide update every six months to EC. Contracted agencies should submit progress on 6 monthly basis to NMET on format as desired by TCC.

(Action: TCC, NMET)

6.5 Monitoring of record of Royalty and NMET transfer to central NMET account

The audited reports from the initiation of NMET upto 31st March 2018 should be presented in the next meeting of Executive Committee. Joint Secretary & Financial Adviser, Mines advised that IBM needs to develop a regular mechanism for monitoring of royalty accounts.

(Action: IBM)

6.7 Inclusion of a representative from NMDC in TCC, NMET

Executive Committee approved the proposal of inclusion of representative of NMDC in TCC, NMET.

6.8 Payment of 2% supervision charges for Technical Supervision to CMPDI and NLC

A letter from Ministry of Coal was received requesting NMET to consider payment of 2% of supervision charges to CMPDI as well as for funding of their ongoing projects from NMET funds. Both these requests were discussed earlier in the 5th meeting of Executive Committee and these requests and could not be agreed to.

The Executive Committee again deliberated on these two issues and decided that the projects sanctioned under NMET funding for CMPDI and NLC are being executed by MECL, and supervision charges by one PSU for supervising the work allotted to another PSU cannot be accepted.

Regarding funding of ongoing projects from NMET, it was felt that this would create problems in expenditure and audit in due course. It was therefore felt that CMPDI may close their ongoing projects at a particular stage of exploration which is to be determined by them as a clear closure and thereafter submit the proposals for next stage of exploration to NMET for consideration. Secretary, Mines further advised that

since JS & FA is common for both the Ministries of Mines and Coal, CMPDI, if necessary, may further give a proposal which she may examine and advice.

(Action: CMPDI, JS & FA, Mines)

Advisor, Ministry of Coal stated that earlier GSI used to do more number of regional explorations for coal and the number of coal exploration undertaken by them has reduced in recent times. Due to this, Ministry of Coal is not able to prepare more number of blocks for auction. GSI replied that GSI has done the coal exploration as per its committed target in the 12th five-year plan and during field season 2018-19 GSI will take up 6 items of regional exploration for Coal. It was also felt that Coal already had a large number of blocks which are awaiting auction.

(Action: NMH-II, GSI)

6.9 Ratification of 5 projects approved by 5th EC

5th EC had accorded in-principle approval for 5 exploration projects to be executed by MECL subject to verification of the project costs by the TCC. The TCC in its 12th meeting had examined the cost of the projects and put up for approval.

The Executive Committee approved the 5 projects at estimated cost of Rs. 1393.47 Lakh. (List of projects at **Annexure-II**).

6.10 New project proposals recommended by TCC in its 12th meeting

TCC, NMET had evaluated 14 new proposals (2 each for MECL and DGM, Nagaland), 3 by TSMDC and 7 proposals by MERIT and put up to Executive Committee for approval. The projects of MECL and DGM, Nagaland were evaluated for both their technical and cost components. Executive Committee accorded approval for these 4 projects at estimated cost of Rs. 1408.42 Lakh (List at **Annexure-III**).

(Action: DGM, Nagaland)

TCC, NMET had evaluated 3 proposals submitted by TSMDC and suggested some modifications in the work quantum. TSMDC has been asked to incorporate the modifications in their proposal and submit revised cost estimate. The Executive Committee accorded in-principle approval for these projects subject to submission of revised cost estimates by TSMDC and its vetting by TCC. TCC will recommend the projects for approval of EC in the next meeting if possible (List at **Annexure-IV**).

(Action: TSMDC, TCC NMET)

TCC, NMET had also evaluated 7 proposals submitted by MERIT and recommended that as MERIT is a trust set up the Government of Andhra Pradesh and not being in the list of NEAs; the proposals may be submitted by DGM, Andhra Pradesh for consideration.

Executive Committee did not approve the projects submitted by MERIT.

(Attention: DGM, Andhra Pradesh; MERIT)

6.11 Additional drilling in 2 ongoing projects of MECL

Executive Committee had approved a regional exploration project for Copper and Gold in Deravad-Chargarhia-Bansra in District Udaipur, Rajasthan at a cost of Rs. 276.93 Lakhs in its 3rd meeting. MECL has completed geological, geochemical and geophysical work in the block and has put up a proposal for drilling 9 boreholes for a total of 625 m to TCC, NMET. Similarly, MECL has also put up a proposal to TCC, NMET for additional drilling for 615 m in 10 boreholes in the regional exploration project for Iron in Kanawat-Chala - Karath-Bagholi Area, District: Jhunjhunu & Sikar, Rajasthan, at a cost of Rs. 255.71 Lakh approved in 4th EC. Both these proposals were evaluated by TCC, NMET in its 12th meeting and TCC has recommended these two proposals to Executive Committee for approval without any additional cost.

Executive Committee approved the proposals for additional drilling in the proposed two blocks as recommended by TCC, NMET (List at **Annexure-V**).

(Attention: MECL)

6.12 Additional sampling work carried by MECL

MECL had put up proposals for approval of cost for additional sampling amounting to Rs. 32,01,362 (Rs. 23,91,250 + Rs. 8,10,112) for work carried out in different regional exploration blocks. The proposal was evaluated by TCC, NMET in its 12th meeting and the TCC had recommended the proposals to Executive Committee for approval.

Executive Committee approved the cost of additional sampling carried out by MECL in exploration projects at a total cost of Rs. 32,01,362 (Rs. 23,91,250 + Rs. 8,10,112) as detailed at **Annexure- VI (A & B)**.

(Attention: MECL)

6.13 Charges for heavy mineral separation to be outsourced from NMDC (proposal of MECL)

In the 12th TCC meeting, MECL had put up a proposal for analysis of 40 samples belonging to diamond prospects in Chellima & Bhimasamudram, to be outsourced from NMDC who have the expertise in this domain and MECL does not have this facility. The proposal was recommended by TCC, NMET for approval of Executive Committee.

Executive Committee decided that this cost should be a part of the approved project. There cannot be additional sanction for this analysis.

(Attention: MECL)

6.14 Other issues

i. All reports of exploration projects funded by NMET to be in GIS platform.

(Action: All exploration agencies)

ii. 12th TCC, NMET has proposed setting up of a separate finance wing of NMET to streamline this vital part of NMET activities. Executive Committee directed NMET Secretariat to put up a proposal on this issue.

(Action: NMET Secretariat)

iii. All State DGMs/ their representative to be present in TCC meetings in which their proposals are to be discussed. Failing this, the proposals will not be taken up.

(Action: All State DGMs)

iv. Karnataka proposed that the sanction of exploration projects from NMET funding need to be commensurate with the contribution of the State to NMET fund. Executive Committee informed that the projects submitted by the States are taken up for consideration.

v. It was decided that for future proposals, the mandate for exploratory drilling in general should be upto 300m; drilling may obviously be discontinued or aborted in case there is no evidence of the ore body as drilling progresses. In the case of limestone and other low value minerals the exploratory drilling in general be upto 100 meters with caveats as above. This will prove the extension of the ore body at the initial stage itself. Thus full potential for economically possible open cast mining would reasonably be assessed.

(Action: TCC, All exploration agencies)

vi. While submitting exploration proposals, all agencies have to send soft copies of the proposals to all members of TCC, NMET. Additionally, they have to submit 4 hard copies of the proposals to NMET. One copy each of the hard copies are to be sent to the concerned State DGM and State Units of GSI. In case of coal and lignite, a copy of the proposal also to be sent to CMPDI.

(Action: All States, Exploration agencies)

vii. All agencies executing NMET funded projects have to submit progress report every 6 months, from the date of sanction of projects. The progress reports will be reviewed by TCC, NMET.

(Action: All exploration agencies, TCC NMET)

Annexure-I

List of participants

Sl. No.	Name & Designation	Organization/Contact No. /email	Remarks
1	Shri Arun Kumar Secretary & Chairman NMET	Ministry of Mines secy-mines@nic.in	In Chair
2	Dr. K. Rajeswara Rao Additional Secretary	Ministry of Mines as_mines@nic.in	Invitee
3	Shri Niranjan K. Singh Joint Secretary & Member Secretary NMET	Ministry of Mines jse-mines@nic.in	Member Secretary, *ex officio*
4	Shri N.Kutumba Rao DG, GSI	GSI dg.gsi@gov.in	Member, *ex officio*
5	Smt. Reena Sinha Puri JS&FA	Ministry of Mines	Member, *ex officio*
6	Shri R. K. Kataria Secretary(Mines)	DGM, Karnataka raj69kat@gmail.com 7259301111	Member, *ex officio*
7	Dr. Anindya Sinha Project Advisor, MOC	Ministry of Coal advp.moc@nic.in 7766908001	Member, *ex officio*
8	Shri D.N. Mishra JS(Exp.), MoPNG	Ministry of Petroleum & Natural Gas diwakar.mishra@nic.in	Member, *ex officio*
9	Shri Ranjan Sahai CG, IBM	IBM, Nagpur cg@ibm.gov.in 9422064120	Member, *ex officio*
10	Shri Artatrana Dash Director (Geology)	Steel &Mines Dept., Govt. of Odisha directorgeology-odisha@yahoo.co.in 9437634996	Member, *ex officio*
11	Dr. D. R. Patel Joint Director	DGM, Chhattisgarh pateldrdgm@gmail.com	Member, *ex officio*
12	Shri Ashok Sharma Addl.Director(Geology)	DGM, Rajasthan adgjaipur.mg@rajasthan.gov.in 9214305456	Member, *ex officio*
13	Dr. P. R. Golani DDG(Retd.)GSI	prggsi@gmail.com 9414074055	Nominated expert
14	Prof. Bhabesh Chandra Sarkar, Professor IIT(ISM), Dhanbad	IIT(ISM), Dhanbad bhabeshsarkar2005@gmail.com 9431121653	Nominated expert

15	Dr. Bijendra Singh Ex Chief Scientist CSIR-NGRI	NGRI, Hyderabad bsingh_ngri@yahoo.co.in 9849418898	Nominated expert
16	Shri Shekhar Saran CMD	CMPDI	Invitee
17	Shri B.N. Shukla D(T) CRD	CMPDI	Invitee
18	Shri Yogesh Sharma GM(BD&P/E)	MECL	Invitee
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33	Dr. Deshraj Trivedi Senior Geologist	GSI	Invitee
34	Smt. Rupa Kundu Senior Geologist	NMET nmet-mines@gov.in	NMET Secretariat
35	Shri Rajendra. Prasad Asst. Director	NMET	NMET Secretariat
36	Shri Ashok Kumar Meena ASO	NMET, Ministry of Mines	NMET Secretariat

Annexure- II

Ratification of the mineral exploration projects for which in-principle approval was accorded in 5th EC meeting held on 06.10.2017				
Sl. No.	Details of Block	Mineral	Recommended in Technical cum-Cost Committee	Estimated Cost (In Lakh)
1.	Nahardih Madhaipur Block for limestone Exploration, In Tehsil -Tilda, District-Raipur, **Chhattisgarh**.	Limestone (G-3/ G-2)	12th TCC Meeting held on 8th & 9th January 2018 at Nagpur	250.50
2.	Pasupulabodu Block for limestone Exploration, Nereducherla Mandal, District-Suryapet, **Telangana**.	Limestone (G-2)	12th TCC Meeting held on 8th & 9th January 2018 at Nagpur	45.50
3.	Sultanpur Block for limestone Exploration, Mattampally – Mandal, District - Suryapet, **Telangana**.	Limestone (G-2)	12th TCC Meeting held on 8th & 9th January 2018 at Nagpur	49.90
4.	Saidulanama Block for limestone Exploration, Nereducherla Mandal, District - Suryapet, **Telangana**.	Limestone (G-2)	12th TCC Meeting held on 8th & 9th January 2018 at Nagpur	43.41
5.	BRH Iron Ore Mines, NEB Range M/s RMMPL, ML No. 2010, District-Ballari, **Karnataka**.	Iron (G-3/G-2)	12th TCC Meeting held on 8th & 9th January 2018 at Nagpur	1004.16
			Total	**1393.47**

Annexure-III

New mineral blocks approved in 6th Executive Committee held on 11.01.2018				
Sl. No.	Name of the block	Mineral	Implementing Agency	Estimated cost (in Lakh)
1.	Regional exploration for Potash mineralization in Lakhasar block, District Bikaner, **Rajasthan**	Potash	MECL	843.84
2.	G2 level exploration for Phosphorite block in (combined II, III, IV) Sonari rock phosphate deposit, Tehsil-Mehrauni, District Lalitpur, **Uttar Pradesh**	Phosphorite	MECL	473.50
3.	G3 level exploration for Limestone in Salumi block, Kiphire District, **Nagaland**	Limestone	DGM, Nagaland	47.43
4.	G4 level exploration for Magnetite in Mollen-Jopi-Ziphu and adjoining area, Naga Hills Ophiolite, Phek District, **Nagaland**	Magnetite/Ni-Co-Cr	DGM, Nagaland	43.65
			Total	**1408.42**

Annexure-IV

New mineral blocks approved in-principle in 6th Executive Committee held on 11.01.2018				
Sl. No.	Name of the block	Mineral	Implementing Agency	Estimated cost (in Lakh)
1.	G4 level regional exploration for Mailaram Copper block, Badradri-Kothagudem District, **Telangana**	Copper	TSMDC	To be submitted by TSMDC
2.	G4 level regional exploration for Limestone block at Jeteya, Buruborta and Dumurjowa in West Singbhum District, **Jharkhand**	Limestone	TSMDC	To be submitted by TSMDC
3.	G4 level regional exploration for Limestone block at Gupteshwar, Koraput District, **Odisha**	Limestone	TSMDC	To be submitted by TSMDC

Annexure-V

Additional drilling in ongoing projects approved in 6th Executive Committee held on 11.01.2018				
Sl. No.	Name of the block	Mineral	Implementing Agency	Earlier approved in
1.	Regional exploration for Copper and Gold in Deravad-Chargadhia-Bansra block, District Udaipur, **Rajasthan**	Copper & Gold	MECL	3rd EC
2.	Regional exploration for Iron Ore in Kanawat-Chala-Karat-Bagholi area, District Jhunjhunu & Sikar, **Rajasthan**	Iron ore	MECL	4th EC

APPROVAL OF ADDITIONAL SAMPLING WORK CARRIED OUT IN DIFFERENT REGIONAL EXPLORATION BLOCKS **Annexure V1(A)**

Sl. No.	Block No	Name of the Block	District	Sate	Commodity	No of samples proposed	Additional samples	Element	Quantity	Rate	Amount
1	MH-02	Dhanoli Bazar Block	Sindhudurg	Maharastra	Fe, Ni, Cr, PGE & Au.	50 soil samples	42 additional soil samples taken, No financial implication in analysis				
2	MH-03	Aurala-Sawali Block	Nanded	Maharashtra	Ba, Au, Pb, Cu & W.	For Au/Ag: 30 each for BR/Soil/Stream, Total 90	For Au/Ag: 31-BR, 26-Soil & 35 Stream, total 92, Extra-2 samples	Au/Ag	2.00	1,460.00	2,920.00
3	MH-04	Pathri-Saoli Area	Chandarpur	Maharashtra	PGE Mineralisation	100 BR & 100 Stream sediments	19 no of stream sediments for PGE & 6 bed rock samples for Au	PGE	19.00	10,000.00	190,000.00
								Au/Ag	6.00	1,460.00	8,760.00
4	MP-01	Udwara Area	Alirajpur	Madhya Pradesh	Mn, Phosphorite and Graphite	350 for P_2O_5 & Mn each, 30 for graphite	14 samples for Ni, Cr, PGE & 7 samples for Au, Pb, Zn	Ni/Cr	14.00	1,121.00	15,694.00
								PGE	14.00	10,000.00	140,000.00
								Au	7.00	1,127.00	7,889.00
								Pb/Zn	7.00	1,443.00	10,101.00

5	MP-08	Mohar Cauldron Area	Shivpuri	Madhya Pradesh	Base Metals & Gold	W & Mo was not proposed	Additional 6 samples for Au & Ag, 8 samples for U & REE, 9 samples for W and 3 samples for Mo	Au/Ag	6.00	1,460.00	8,760.00
								U	8.00	4,550.00	36,400.00
								REE	8.00	4,870.00	38,960.00
								W	9.00	599.00	5,391.00
								Mo	3.00	570.00	1,710.00
6	ODS-09	South of Kesarpur	Mayurbhanj	Odisha	Copper	No Gold was proposed	5 Au samples (BR) including check	Au	5.00	1,127.00	5,635.00
7	RAJ-02	Deravad-Chargarhia-Bansra Area	Udaipur	Rajasthan	Copper, Gold	BR-75, SS-150, SSS-75 for Cu, Pb, Zn	23 Au Samples (BR) including check	Au	23.00	1,127.00	25,921.00
8	RAJ-03	Jhalara-Matasula-Manpur-Bhabrana-Amalva Area	Udaipur/ Duganpur	Rajasthan	Copper, Gold & REE		11 additional REE & 21 additional in CaF_2 in BR, 20 additional Au in soil and 20 additional in stream.	REE	11.00	4,870.00	53,570.00
								CaF_2	21.00	978.00	20,538.00
								Au-Soil	20.00	1,127.00	22,540.00
								Au-Stream	20.00	1,127.00	22,540.00
9	RAJ-04	Kukra-Padwa-Ven Area	Udaipur	Rajasthan	Copper, Gold	For Au, 20 BR Check samples	24 Check of BR for Au & 5 Check of Soil for Au, Total 9 Au Check samples are extra.	Au	9.00	1,127.00	10,143.00
10	RAJ-07	Kanawat-Chala - Karath-Bagholi Area	Jhunjhunu & Sikar	Rajasthan	Iron	Whole rock-10 nos	3 additional, total 13 analysed.	WR	3.00	6,386.00	19,158.00

11	RAJ-09	Karoli-Nathdwara Area	Udaipur & Rajsamand	Rajasthan	Copper, Gold & Molybdenum	No Mn was proposed	11 no of bed rock & 15 soil samples for Mn	Mn	26.00	599.00	15,574.00
12	RAJ-13	Isarwas-Karavalli - Baroliya-Angeni-Beras Area	Udaipur	Rajasthan	Copper	No Au/Ag proposed	Additional 71 samples for Au & 53 samples for Ag analysed (including check)	Au	71.00	1,127.00	80,017.00
								Ag	53.00	1,127.00	59,731.00
13	AP-09	Agnigundala North Block	Guntur	Andhra Pradesh	Base Metals	BR-80, SS-160, SSS-80 for Cu, Pb, Zn	BR-80, SS-77, SSS-163 for Cu, Pb, Zn, No financial implication				-
14	AP-10	Agnigundala South Block	Guntur	Andhra Pradesh	Base Metals	BR-100, SS-200, SSS-100 for Cu, Pb, Zn	BR-65, SS-143, SSS-192 for Cu, Pb, Zn, No financial implication				-
15	TN-05	Andipatti-Jambumadai-Urakari Sector	Namakkal	Tamil Nadu	Dunite, Ni, Cr & PGE.	10 Petrographic samples	4 additional petrographic samples	PG	4.00	2,040.00	8,160.00
TOTAL-ADDITIONAL APPROVAL											**810,112.00**

Annexure VI (B)

COST ESTIMATE FOR SAMPLING WORK OF REGIONAL EXPLORATION (G-4) IN ISWAL- SELU-KATHAR-TULA (THALA) AREA (RAJ-14) DISTRICT: UDAIPUR, RAJSAMAND, (BLOCK ID: WRRAJ_14), RAJASTHAN								
S.N	**Item of Work**	**Unit**	**Base Rate as on 01-04-1990**	**Indexed rates (2017-18)**			**Total**	
				Rate	**Qty**	**Amount (Rs)**	**Qty**	**Amount (Rs)**
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 '(76x5+110)	2,580.00	550.00	1,419,000.00	550.00	1,419,000.00
	ii) for additional 2 radicals SO3 & P2O5	Nos	186 '(76+110)	972.00	55.00	53,460.00	55.00	53,460.00
	iii) Check samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,580.00	55.00	141,900.00	55.00	141,900.00
	iv) External Check (NABL) samples for analysis of for 6 radicals i.e. CaO, MgO, Al2O3, SiO2, Fe2O3 and LOI	Nos	490 '(76x5+110)	2,580.00	25.00	64,500.00	25.00	64,500.00
2	**Composite Samples**							
	i) for 12 radicals (CaO, MgO, Al_2O_3, SiO_2, Fe2O3, SO3, P2O5 , LOI, MnO2, K2O, Na2O and Cl.)	Nos	946 '(76x11+110)	4,992.00	90.00	449,280.00	90.00	449,280.00
b	**Physical Analysis**							
1	X-RD Studies on composite	Nos	1137	5,605.00	20.00	112,100.00	20.00	112,100.00
2	Spectroscopic Studies (Trace element)	Nos	1173	5,388.00	20.00	107,760.00	20.00	107,760.00
3	Preparation of thin section	Nos	100	538.00	20.00	10,760.00	20.00	10,760.00
4	Petrographic Studies	Nos	228	1,436.00	20.00	28,720.00	20.00	28,720.00
5	Specific Gravity determination	Nos	32	188.50	20.00	3,770.00	20.00	3,770.00
	Sub-Total C					**2,391,250.00**	0	**2,391,250.00**