To:
As per list attached.

Subject: - 35th meeting of the SSAG minutes-thereof

Sir,

I am directed to forward herewith a copy of the minutes of the 35th meeting of the SSAG held on 20th October, 05 for information and necessary action.

2. The receipt of this letter may kindly be acknowledged.

Yours faithfully,

(R.K. Khera)
Section Officer
MINUTES OF THE 35TH MEETING OF THE STANDING SCIENTIFIC ADVISORY GROUP (SSAG) OF MINISTRY OF MINES HELD ON 20TH OCTOBER, 2005 IN THE ALUMINIUM HALL, FIRST FLOOR, SHASTRI BHAWAN, NEW DELHI

The list of participants is placed at Annexure.

2.0 The Chairman, Shri A.K.D. Jadhav, Secretary (Mines) welcomed the delegates. He informed that this is an extension meeting of the previous SSAG in which some of the agenda items could not be taken up. He initiated the discussions and agenda items were taken up for discussion.

3.0 **Agenda item No. 1:** Confirmation of the minutes of 34th meeting held on 29.8.2005.

No comments/observations/modifications to the minutes were received. The minutes were confirmed.

4.0 **Agenda item No. 2:** Consideration of New Proposals.

(i) **Mechanised Sand Stone Quarrying in Rajasthan – CDOS – (cost – Rs.180 lacs)**

Centre for Development of Stones (CDOS), Rajasthan made a presentation on the project. To a query from members, Mr. R.K.Gupta, CEO, CDOS, informed that by applying the mechanized mining, wastage of blocks can be brought down from 70% to 30%. The committee deliberated in depth on all the aspects and recommended that instead of starting the project at three places simultaneously, only one place be selected initially (Phase-I) and it may be taken up as a ‘pilot project’. On successful demonstration
of the Pilot Project, the Phase-II could be considered subsequently. The project proposal with revised financial implications (limited to Rs.45 lacs) be submitted to MoM for approval of the cost of the Project.

(ii) Creation of Corpus fund of Rs.1000 lacs for National Centre for Development of Stones; and

(iii) Plan assistance of Rs.100 lacs to develop National Centre for Development of Stones.

Discussions were held regarding the admissibility of the creation of corpus fund. Advisor TPPC, MoM informed about the Committee formed under the chairmanship of JS(PM), MoM looked into the matter of upgrading CDOS as a National Centre. The SSAG felt that recommendations of the Committee be adhered to by CDOS, before the proposal could be considered by the SSAG. Revised model of the project and a firm commitment of the State Government be obtained.

(iv) Bio-leaching of lean sulphide (Chalcopryrite Ore of MCP), HCL and RRL, Bhubaneswar

Presentation regarding the project were made by Dr. O.P. Chugh of Malanjkhand Copper and Dr. R.R. Shukla of RRL. Dr. Shukla emphasized that the new strain is suitable for leaching of gold from sulphide ores. The column leaching will be taken up first then after review of results heap leaching will be taken up. Shri B.K.P. Sinha emphasized that tailings should also be considered for bioleaching. A committee consisting of following members was constituted to consider the exact approach to be adopted keeping in view the economics of the project:

1. Dr. S. Sengupta, Dy.DG, GSI
2. Shri Deepak Srivastava, Director (Technical), MoM
3. Shri K. P. Lal, Advisor, TPPC, MoM

Dr. O.P. Chugh and Dr. R.R. Shukla will present the details before the Committee.
The Committee in principle approved the project subject to modifications to be suggested by the Committee for funding.

5.0 **Agenda Item No.3**: "Die Casting Technology & Application Development Centre" – India Lead Zinc Development Association, New Delhi – Proposal by ILZDA.

Shri Pugazhenthi, Secretary, Indian Lead Zinc Association, presented the brief on Die Casting Technology, its importance and scenario about consumption of lead zinc in country. A status of the project was presented. The two pending issues were:

1. IZA membership
2. MOU between GOI & IZA/ILZA to be signed.

Chairman remarked that industry should come forward and resolve the issue of IZA membership so that the project could take off. The Committee emphasized that ILZA to continue dialogue with HZL and resolve the issue.

The meeting ended with a vote of thanks to the Chair.
## Composition of Standing Scientific Advisory Group

1. Shri A. K. D. Jadhav—Chairman
   Secretary,
   Department of Mines,
   Shastri Bhawan,
   New Delhi-110001

2. Secretary,
   Department of Science &
   Technology,
   Technology Bhawan,
   New Mehrauli Road,
   New Delhi-110016

3. Shri M. N. Prasad,
   Additional Secretary,
   Department of Mines,
   Shastri Bhawan,
   New Delhi-110001

4. Shri Harbhajan Singh,
   Joint Secretary & Financial-
   Advisor,
   Department of Mines,
   Shastri Bhawan,
   New Delhi-110001

5. Shri K. K. Kaura,
   Managing Director,
   Hindustan Zinc Limited,
   Yashad Bhawan, Yashadgarh,
   Udaipur-313001

6. Director,
   Defence Metallurgical Research-
   Laboratory (DMRL),
   P.O. Kanchanbagh,
   Hyderabad-500258

7. Director (Materials Group),
   Bhabha Atomic Research Centre,
   Trombe,
   Mumbai-4500085

8. Shri D. N. Bhargava,
   Ex-CG IBM,
   E-1, Teacher’s Quarters,
   Pune University,
   Pune-411007

9. Director (Materials Group),
   Bhabha Atomic Research Centre,
   Trombe,
   Mumbai-4500085

10. Shri G. Upadhyaya,
    Chairman-Cum-Managing Director,
    National Aluminium Company
    Limited (NALCO),
    NALCO Bhawan,
    Bhubaneswar-751013

11. Director,
    Regional Research Laboratory,
    Habibganj Naka,
    Hoshangabad Road,
    Bhopal-462026

12. Director,
    Central Mining Research Institute,
    Dhanbad-826001

13. Shri B. K. P. Sinha,
    Advisor, Hatti Gold Mines,
    Hatti, P. o. Hatti Mines,
    Distt. Raichur-584115
    Karnataka

14. Shri K. P. Iall,-Member Secretary,
    Advisor,
    Technical Planning & Policy-
    Committee,
    Department of Mines, C.G.O.
    Complex, Block # 11, 5th Floor, old Road, P
    Delhi.
i) Shri Rakesh Rooja, CMD, RIICO, & Chairman CDOS, Udyog Bhawan, Tilak Marg, Jaipur-302005

ii) Shri Rakesh Srivastava, Secretary(Mines), Govt. of Rajasthan, Secretariat, Jaipur-302001.

iii) Shri M. Samajpati, Chairman-cum-Managing Director, Hindustan Copper limited, 1, Ashutosh Chowdhury Avenue, Kolkata-700019

iv) Dr.(Mrs.) Malti Goel, Advisor, Deptt. of Science & Technology, Technology Bhavan, New Mehrauli Road New, Delhi-110016.

v) Director, Regional Research Laboratory, Bhubaneswar

vi) Shri R. K. Sharma, General Secretary, FIMI, 301 Bakshi House, 40-41, Nehru Place, New Delhi-19

vii) Shri R. K. Gupta, Chief Executive Officer, Centre for Development of stones, Udyog Bhawan, Tilak Marg, Jaipur-302005.

viii) Shri M. Sahu, ICAMI-UNIDO, Project Director, India Habitat Centre, New Delhi-110003.

ix) Sh. L. Pugazhenthry, Executive Director, Jawahar Bhawan, 39 Tughlaqabad Institutional Area, M.B. Road, New Delhi 110062
List of Participants of 35th Meeting of the Standing Scientific Advisory Group (SSAG) held on 20.10.2005 at 11.00 AM in the Aluminium Room, 1st Floor, Ministry of Mines under the Chairmanship of Shri A.K.D. Jhadhav Secretary (Mines)

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<tr>
<th>S. No.</th>
<th>Name of Participant</th>
<th>Name of the Organization</th>
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<tr>
<td>1.</td>
<td>Sh. S. Sengupta</td>
<td>Geological Survey of India</td>
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<td>2.</td>
<td>Sh. K. Ranta</td>
<td>M.D. RIICO</td>
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<td>3.</td>
<td>Sh. P. swarup</td>
<td>Dir. (Operation), HCL</td>
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<td>4.</td>
<td>Sh. O.P. Chugh</td>
<td>Executive Dir., HCL</td>
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<td>5.</td>
<td>Sh. L.B. Sakle</td>
<td>Dy. Dir. &amp; Head BP&amp;EM, RRL., Bhubaneshwar</td>
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<td>6.</td>
<td>Sh. D. Balloni</td>
<td>UNIDO-ICAMT</td>
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<td>7.</td>
<td>Sh. T. Thangaraj</td>
<td>India Lead Zinc, Dev. Asstt., New Delhi</td>
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<td>8.</td>
<td>Sh. M.K. Rajan</td>
<td>Advisor, ILZDA</td>
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<td>9.</td>
<td>Sh. L. Pugazhenthy</td>
<td>Exe. Dir. (ILZDA)</td>
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<td>10.</td>
<td>Sh. B. D.P. Sinha</td>
<td>Former Dir., HZL</td>
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<td>11.</td>
<td>Sh. Dr. A. Sucha</td>
<td>CMRI, Dhanbad</td>
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<td>12.</td>
<td>Sh. R.K. Gupta</td>
<td>C'DOS, Jaipur</td>
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