Short-term Training Course on

MINERAL CHARACTERIZATION, BENEFICIATION & AGGLOMERATION

(MCBA 2019)

Organized by CSIR-National Metallurgical Laboratory

22-25 January 2019

In metallurgical and mineral-based industries, beneficiation of low-grade ores and minerals to meet the requirements of quality raw materials is of great importance. Beneficiation/up-gradation of the low-grade ores and minerals generally involves comminution of the ore to achieve liberation of valuable minerals from the gangues followed by their separation exploiting the difference in physical and physico-chemical properties. Beneficiation involves size reduction, classification, gravity separation, magnetic separation, electrostatic/high tension separation, froth flotation followed by dewatering of the products. As per the need, the fine-grained concentrate is agglomerated.

Over the years, CSIR-National Metallurgical Laboratory (NML) has been engaged in beneficiation studies of ferrous, non-ferrous, non-metallic minerals and coal from different sources in the country as well as from overseas. In addition to beneficiation, agglomeration comprising of briquetting, sintering and pelletization of fine grained concentrate is also an active area of research at CSIR-NML.

With the rich experience and expertise in the areas of mineral engineering, CSIR-NML imparts regular training for skill enhancement for the plant practitioners, entrepreneurs, researchers and faculty members. In continuation of such training programs, CSIR-NML shall conduct a short term course on Mineral Characterization, Beneficiation and Agglomeration (MCBA 2019) during 22-25 January 2019.The four days training program includes informative lecture series, laboratory visits and hands-on training on different equipments and various aspects of their operations.

SHORT-TERM TRAINING

CALL FOR PARTICIPATION

TRAINING OBJECTIVES

- To enhance technical knowledge in mineral characterization, beneficiation and agglomeration
- To offer hands-on training on state-of-the-art equipment facility
- To develop interaction between R&D laboratory, industry and academic institutions

TRAINING FEES: The training fee is Rs. 25000/- plus 18% GST per participant and should be paid in form of DD/ Cheque/RTGS drawn in favour of Director, NML payable at State Bank of India, NML Branch, Jamshedpur. The Fee can also be paid through on-line transfer by mentioning "MCBA2019" in the transaction information. The account details for on-line transaction are given below:

Name: National Metallurgical Laboratory
Bank Name: SBI, NML Branch
Bank Code: 3329
Account No: 30271713826
MICR code: 831002013 | **IFSC:** SBI N 0003329 | **Swift Code:** SBININBB164
GST No. : 20AAATC2716R2ZS

The course is designed for a limited number of participants and participation shall be accepted on first-cum-first basis. Accommodation can be provided only on specific request and on payment basis.

TENTATIVE PROGRAM

Day 1

- Registration (09:30 Hrs)
- Inaugural Session (10:00-10:30 Hrs)
- Session IA: Mineral Characterization - Lectures (11:00 – 13:30 Hrs)
- Session IB: Mineral Characterization - Hands-on (14:30 – 17:30 Hrs)

Day 2

- Session IIA: Mineral Beneficiation - Lectures (10:00 – 13:30 Hrs)
- Session IIB: Mineral Beneficiation - Hands-on (14:30 – 17:30 Hrs)

Day 3

- Session IIIA: Mineral Beneficiation - Lectures (10:00 – 13:30 Hrs)
- Session IIIB: Agglomeration - Lectures & Laboratory (14:30 – 17:30 Hrs)

Day 4

- Session IVA: Agglomeration - Hands-on (10:00 – 13:30 Hrs)
- Session IVB: Industrial Issues and Valedictory (14:30 – 17:30 Hrs)

TRAINING COORDINATORS

1. Dr. R. K. Rath, Principal Scientist, MNP Division, CSIR-NML, Jamshedpur
2. Dr. K.L. Hansda, Sr. Pr. Scientist, RPBD Div., CSIR-NML, Jamshedpur

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