

## Training Programme on Mine Management and Compliance Assurance, 28<sup>th</sup> Nov. to 9<sup>th</sup> Dec., 2016

### Day 1: 28<sup>th</sup> November, 2016

Time	Topic	Speaker
10.00 – 10.15	Introduction to Participants	Digvijay Singh, Senior Research Associate, CSE
10.15 – 10.45	About Centre for Science & Environment and its work in Sri Lanka	Sujit Kumar Singh, Sr. Programme Manager, CSE
11.45 – 11.15	CSE campus walk through	Digvijay Singh, Senior Research Associate, CSE
<b>11.15 – 11.30 Tea</b>		
11.30 – 12.30	Environment & Social Issues associated with Mining Projects	Sujit Kumar Singh, Sr. Programme Manager, CSE
<b>1.00 – 1.45 Lunch</b>		
1.45 – 2.15	Movie – Underground Inflow	
2.15 – 3.00	Environment Clearance Processes in India	Sujit Kumar Singh, Sr. Programme Manager, CSE
<b>3.15 – 3.30 Tea</b>		
3.30 – 5.30	Class exercise – Strength & Weakness of Environmental Clearance Process in India and Sri Lanka	Sujit Kumar Singh, Sr. Programme Manager, CSE

### Day 2: 29<sup>th</sup> November, 2016

Time	Topic	Speaker
10.00 – 11.30	Presentation by groups on Strength and Weakness of Environment Clearance Process in India and Sri Lanka	Digvijay Singh, Senior Research Associate, CSE
<b>11.00 – 11.15 Tea</b>		
11.15 – 12.30	Mining & its impact on Bio-diversity	Sujit Kumar Singh, Sr. Programme Manager, CSE
<b>12.30 – 1.15 Lunch</b>		
1.15 – 2.00	Movie- Buddha Weep	
2.00 – 2.30	How to prepare Terms of Reference (ToRs) for mining project	Sujit Kumar Singh, Sr. Programme Manager, CSE
<b>2.30 – 2.45 Tea</b>		
2.45 – 5.45	Class exercise- Preparation of ToRs for mining project followed by presentation by each group	Sujit Kumar Singh, Sr. Programme Manager, CSE

### Day 3: 30<sup>th</sup> November, 2016

Time	Topic	Speaker
9.30 – 10.30	Indian Experience - Environmental and Social Laws and Rule applicable on mining project and learning for each other	Sujit Kumar Singh, Sr. Programme Manager, CSE and
10.30 – 1.00	Air and water quality assessment in mine <i>Note: Tea will served during the session</i>	Dr. DD Basu, Advisor CSE
1.00 – 1.45	<b>Lunch</b>	
1.45 – 2.45	Overview on mineral exploration Discussion – learning from each countries	Dr. SP Banerjee, Former Director, ISM Dhanbad
<b>2.45 – 3.00 Tea</b>		

3.00 – 4.15	Mine planning – Indian experience	Ashutosh Srivastava, Sr Research Associate
4.15 – 4.45	Discussion – learning from each countries	Dr. SP Banerjee, Former Director, ISM Dhanbad

**Day 4: 1<sup>st</sup> December, 2016**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
8.30 – 9.30	Overview on mining technology and its significance	Dr. SP Banerjee, Former Director, ISM Dhanbad
9.30 -9.45	Discussion – learning from each countries	Dr. SP Banerjee, Former Director, ISM Dhanbad
9.45 – 10.45	<b>Tea</b>	
10.45 – 11.45	Different explosives used in India and its significance	Dr. SP Banerjee, Former Director, ISM Dhanbad
11.45 -12.30	Benefit Sharing - Learning from Indian experience	Srestha Banerjee, Programme Manager, CSE
12.30 – 1.15	<b>Lunch</b>	
1.15 – 2.00	Framework for conducting mine inspection	Dr. SP Banerjee, Former Director, ISM Dhanbad
2.00 – 4.00	Class exercise: Preparation of inspection checklist for mine inspection  <i>Note: Tea will be served during the session</i>	
4.00 – 5.00	Mining and its impact on hydrology and mitigation measures	Dr. SP Banerjee, Former Director, ISM Dhanbad

**Day 5: 2<sup>nd</sup> December, 2016**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
8.00 – 9.15	Stone quarry, issues, and possible mitigation measures	Dr. SP Banerjee, Former Director, ISM Dhanbad
9.15 – 10.15	Mine safety and its management with reference to open cast and underground mine	Dr. SP Banerjee, Former Director, ISM Dhanbad
10.15 – 10.30	<b>Tea</b>	
10.30 – 11.15	Presentation on mine's inspection checklist by each group and feedback incorporation  Note : Same check list will be use for limestone/rock phosphate mines	Chair: Dr. SP Banerjee, Former Director, ISM Dhanbad
11.15 – 12.00	Occupational disease in mine and its mitigation measures	Dr. SP Banerjee, Former Director, ISM Dhanbad
12.00 -12.45	<b>Lunch</b>	
12.45 – 1.30	Movie: Rain Catcher	
1.30 – 2.15	Outline for framing Environmental Management (EMP) in mine	RP Sharma, Advisor CSE
2.15 – 4.30	Class exercise on Environmental Management (EMP) followed by presentation by each group Tea will be served during session	RP Sharma, Advisor CSE
4.30 – 4.45	Tea	
4.45 – 5.30	Presentation by each group	On chair

		RP Sharma, Advisor CSE
	<b>Day 6: 3<sup>rd</sup> December, 2016 Delhi visit</b>	
	<b>Day 7: 4<sup>th</sup> December, 2016 Visit to Taj mahal</b>	

**Day 08: 5<sup>th</sup> December, 2015**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
10.00 – 11.00	Best practices in mine management (air, water, waste and noise)	Sujit Kumar Singh, Sr. Programme Manager, CSE
11.00 – 11.15	Tea	
11.15 – 12.30	National and International Case studies on mine reclamation	Sujit Kumar Singh, Sr. Programme Manager, CSE
12.30 – 1.30	Overview on JK Lakshmi limestone mine and instruction on do's and don't's for site visit	Digvijay Singh, Senior Research Associate, CSE
1.30 – 2.30	Lunch	
	<b>Depart for Railway station</b>	

**Day 09: 6<sup>th</sup> December, 2015**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
8.45 – 12.45	Visit to JK Lakshmi limestone mine and understand mine management practices & Inspection of mine	
12.45 – 1.30	Lunch	
1.30 – 7.00	Site seeing - Mount Abu	
	Dinner and stay at JK Lakshmi cement guest house	

**Sudha Pandey & Digvijay will accompany the group**

**Day 10: 7<sup>th</sup> December, 2015**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
8.30 -9.30	Breakfast	
9.30	Depart for Udaipur	
11.00	Arrival at Udaipur	
12.00 – 1.00	Lunch	
1.00 – 6.00	Visit to Udaipur Palace and lake	
	Dinner and stay at Udaipur	

**Sudha Pandey & Digvijay will accompany the group**

**Day 11: 8<sup>th</sup> December, 2015**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
9.00 – 1.00	Visit to RSMML mine	
1.00 – 2.00	Lunch	
2.00	Depart from Udaipur	

**Sudha Pandey & Digvijay will accompany the group**

**Day 12: 9<sup>th</sup> December, 2015**

<b>Time</b>	<b>Topic</b>	<b>Speaker</b>
11.00 – 1.00	Preparation of inspection report based on site visit & presentation by each group	Sujit Kumar Singh Sr. Programme Manager, CSE
1.00 -2.00	Lunch	
2.00 – 3.00	Feedback and certificate distribution	Chandra Budshan, Deputy Director General, CSE