

TRAINING PROGRAMME April 2019 – March 2020

Sl. No.	Title of the Course with Reference No.	Duration / Date	Venue
I	LONG TERM COURSES (LTC) – FULL TIME		
1	Post Graduate Diploma in Cement Technology (CCE-02/LTC-1/Cem/B/2019)	1 Year August 2019-July 2020	NCB-B
2	Certificate Course in Testing & Quality Control of Cement and Cementitious Materials (CCE-02/LTC-2/Cem/B/2019)	6 Months April – Sept. 2019 Oct. 2019 - March 2020	NCB-B
3	Certificate Course in Environment Monitoring (CCE-02/LTC-3/Cem/B/2019)	6 Months April – Sept. 2019 Oct. 2019 - March 2020	NCB-B
II	SHORT TERM COURSES (STCs)		
A	Cement Technology Related Areas		
1	Instrumental Methods of Analysis and Quality Control (CCE-02/STC-1/Cem/B/2019)	3 days 23-25 April 2019	NCB-B
2	Technologies for Reducing PM, NO _x , SO _x and CO ₂ in Cement Industry (CCE-02/STC-2/Cem/H/2019)	2 days 07-08 May 2019	NCB-H
3	Optimisation of Pyroprocessing Systems in Cement Industry (CCE-02/STC- 4/Cem/B/2019)	2 days 14-15 May 2019	NCB-B
4	Calibration of Laboratory Equipment and Quality Assurance in Cement, Construction, Process and Power Industries (CCE-02/STC-6/Cem/B/2019)	3 days 28-30 May 2019	NCB-B
5	Role of CFD in Cement Plant Process Optimisation and Energy Saving (CCE-02/STC- 8/Cem/B/2019)	2 days 13-14 June 2019	NCB-B
6	Optimisation of Grinding Systems (CCE-02/STC-10/Cem/H/2019)	2 days 27-28 June 2019	NCB-H
7	Quality Orientation for Marketing Executives in Cement Industry (CCE-02/STC-12/Mkt /B/2019)	3 days 10-12 July 2019	NCB-B
8	Sampling and Testing of Cement as per BIS Standards (CCE-02/STC-14/Cem/B/2019)	3 days 24-26 July 2019	NCB-B
9	Optimisation of Raw Mix to Improve Clinker and Cement Quality (CCE-02/STC-15/Cem/H/2019)	2 days 30-31 July 2019	NCB-H
10	Safety Practices in Cement Industry (CCE-02/STC-17/Cem/H/2019)	2 days 06-07 August 2019	NCB-H
11	Improving Performance of Coolers (CCE-02/STC-18/Cem/B/2019)	2 days 07-09 August 2019	NCB-B
12	Advanced Mining Techniques and Practices in Cement Industry (CCE-02/STC-19/Cem/B/2019)	2 days 28-29 August 2019	NCB-B
13	Optimisation of Pyroprocessing Systems in Cement Industry (CCE-02/STC-22/Cem/H/2019)	2 days 24-25 September 2019	NCB-H
14	Innovative Cementitious Materials (CCE-02/STC-23/Cem/B/2019)	2 days 26-27 September 2019	NCB-B
15	Technologies for Reducing PM, NO _x , SO _x and CO ₂ in Cement Industry (CCE-02/STC-24/Cem/B/2019)	2 days 10-11 October 2019	NCB-B
16	Calibration of Laboratory Equipment and Quality Assurance in Cement Industry (CCE-02/STC-25/Cem/H/2019)	2 days 15-16 October 2019	NCB-H
17	Sampling, Testing of Cement as per BIS Standards (CCE-02/STC-27/Cem/H/2019)	2 days 05-06 November 2019	NCB-H
18	Diagnostic Studies on Process related Problems viz. Shell Corrosion, Build-ups, Ring Formation etc. (CCE-02/STC-28/Cem/B/2019)	3 days 06-08 November 2019	NCB-B

NCB-B: NCB-Ballabgarh

NCB-H: NCB-Hyderabad

Sl. No.	Title of the Course with Reference No.	Duration / Date	Venue
19	Instrumental Methods of Analysis and Quality Control (CCE-02/STC-30/Cem/H/2019)	2 days 17-18 December 2019	NCB-H
20	Alternate Fuels and Raw Materials in Cement Industry (CCE-02/STC-31/Cem/B/2019)	2 days 19-20 December 2019	NCB-B
21	Optimization of Grinding System (CCE-02/STC-34/Cem/B/2019)	3 days 29-31 January 2020	NCB-B
22	Energy Efficiency Initiatives in Cement Industry (CCE-02/STC-37/Cem/H/2019)	2 days 27-28 February 2020	NCB-H
B	Concrete and Construction Technology Related Areas		
1	Concrete Making Materials, Concrete Mix Design and Durability of Concrete (CCE-02/STC-3/Conc/B/2019)	4 days 07-10 May 2019	NCB-B
2	Seismic Evaluation and Retrofitting of Reinforced Concrete Buildings (CCE-02/STC-5/Conc/B/2019)	2 days 23-24 May 2019	NCB-B
3	Use of Fly Ash and Blended Cements for Durable Concrete (CCE-02/STC-7/Conc/H/2019)	2 days 11-12 June 2019	NCB-H
4	Advances in Concrete Technology covering use of Admixture, Self Compacting Concrete and High Performance Concrete (CCE-02/STC-9/Conc/B/2019)	3 days 18-20 June 2019	NCB-B
5	Cracks and Leakages in Concrete Structures: Causes, Prevention and Repair (CCE-02/STC-11/Conc/H/2019)	2 days 09-10 July 2019	NCB-H
6	Quality Control and Quality Assurance in Concrete Construction including Extreme Weather Concreting (CCE-02/STC-13/Conc/B/2019)	5 days 15-19 July 2019	NCB-B
7	Concrete Mix Design and Acceptance Criteria of Concrete for Different Types of Mixes (CCE-02/STC-16/Conc/B/2019)	3 days 31 July-02 August 2019	NCB-B
8	Corrosion in Reinforced Concrete Structures and its Remedial Measures (CCE-02/STC-20/Conc/H/2019)	2 days 05-06 September 2019	NCB-H
9	Non-destructive Testing and Evaluation of Concrete Structures (CCE-02/STC-21/Conc/B/2019)	3 days 18-20 September 2019	NCB-B
10	Use of Fly Ash & GGBS and Blended Cements for Durable Concrete (CCE-02/STC-26/Conc/B/2019)	3 days 16-18 October 2019	NCB-B
11	Concrete Mix Proportions and Acceptance Criteria for Different Concrete Mixes (CCE-02/STC-29/Conc/H/2019)	3 days 20-22 November 2019	NCB-H
12	Design, Construction and Quality Control Practices for Concrete Roads for Highway & Low Volume Roads (CCE-02/STC-32/Conc/B/2019)	3 days 15-17 January 2020	NCB-B
13	Quality Control and Quality Assurance in Concrete Construction (CCE-02/STC-33/Conc/H/2019)	2 days 28-29 January 2020	NCB-H
14	Repair and Rehabilitation of Concrete Structures including Water Proofing Materials and Techniques (CCE-02/STC-35/Conc/B/2019)	3 days 05-07 February 2020	NCB-B
15	Durability & Service Life Design of Concrete Structures (CCE-02/STC-36/Conc/B/2019)	2 days 26-27 February 2020	NCB-B
16	Non-destructive Testing and Evaluation of Concrete Structures (CCE-02/STC-38/Conc/H/2019)	2 days 05-06 March 2020	NCB-H
III	SIMULATOR BASED COURSES (SBCs)		
1	Operation, Control and Optimization of Modern Grinding System based on Roller Press and Ball Mills (CCE-02/SBC-1/Sim/B/2019)	3 days 21-23 May 2019	NCB-B
2	Operation, Control and Optimization of Modern Precalciner Kilns (CCE-02/SBC-2/Sim/B/2019)	4 days 18-21 June 2019	NCB-B
3	Operation, Control and Optimization of Modern Grinding System based on Vertical Roller Mills (CCE-02/SBC-3/Sim/B/2019)	3 days 07-09 August 2019	NCB-B

Sl. No.	Title of the Course with Reference No.	Duration / Date	Venue
4	Operation, Control and Optimization of Modern Precalciner Kilns (CCE-02/SBC-4/Sim/H/2019)	4 Days 27-30 August 2019	NCB-H
5	Operation, Control and Optimization of Modern Grinding System based on Roller Press and Ball Mills (CCE-02/SBC-5/Sim/B/2019)	4 days 24-27 September 2019	NCB-B
6	Operation, Control and Optimization of Modern Precalciner Kilns (CCE-02/SBC-6/Sim/B/2019)	3 days 06-08 November 2019	NCB-B
7	Operation, Control and Optimization of Modern Grinding System based on Vertical Roller Mills (CCE-02/SBC-7/Sim/B/2019)	3 days 11-13 February 2020	NCB-B
8	Operation, Control and Optimisation of Modern Grinding Systems based on VRM and Roller Press / Ball Mill System (CCE-02/SBC-8/Sim/H/2019)	4 Days 25-28 February 2020	NCB-H
IV	CONTACT TRAINING PROGRAMMES (CTPs)		
	<i>Contact programmes are designed to suit the specific requirements of individual participants. These are practice-oriented wherein the participants practice in the laboratory right from day one to master the relevant technique/method of testing and analysis.</i>		
1	Application of XRD for Quality Evaluation of Clinker, Cement and Raw Materials	3 Days	NCB-B
2	Mineralogical and Microstructural Evaluation of Coarse and Fine Aggregates, Hardened Concrete, Hydrated Cement by Optical Microscopy	3 Days	NCB-B
3	EDTA Methods of Analysis for Cement and Raw Materials	3 Days	NCB-B / NCB-H
4	Estimation of Free Silica	3 Days	NCB-B / NCB-H
5	Estimation of Chloride in Cement	2 Days	NCB-B / NCB-H
6	Estimation of Alkalies in Cement	2 Days	NCB-B / NCB-H
7	Testing of Pozzolanic Materials	3 Days	NCB-B / NCB-H
8	Proximate and Ultimate Analysis of Coal	3 Days	NCB-B / NCB-H
9	Physical Testing of Cement	3 Days	NCB-B / NCB-H
10	Determination of Bond Index for Raw Materials and Clinkers	4 Days	NCB-B / NCB-H
11	Evaluation and Quality Assessment of Limestone, Slag and Cement Clinker by Optical Microscopy	3 Days	NCB-B / NCB-H
12	Estimation of Sulphide Sulphur in Granulated Blast Furnace Slag / Portland Slag Cement	3 days	NCB-B / NCB-H
V	SPECIAL GROUP TRAINING PROGRAMMES		
	<i>These are customized training programmes on various aspects of cement, concrete, construction and related areas for a group of persons from a single organization</i>		
A	Cement Technology Related Areas		
1	Overview of Cement Technology for Sr. Executives / Engineers	10 Days	NCB
2	Cement Manufacturing Technology for Entry Level Executives	4/8 Weeks	NCB
3	Strengthening of Capabilities of Marketing Executives of Cement Industry	3 Days	NCB/On site
4	Energy Audit and Conservation	3 Days	NCB/On site
5	Operation and Maintenance of Kilns and Mills	3 Days	NCB/On site
6	Condition Monitoring of Equipment and Machinery	3 Days	NCB/On site
7	Quality System Documentation, Auditing ISO-9000 / ISO-14000 etc.	3 Days	NCB/On site
B	Concrete and Construction Technology Related Areas		
1	Testing and Evaluation of Concrete Making Materials	5 Days	NCB
2	Ready Mixed Concrete Technology	3 Days	NCB
3	Application of Special and Blended Cements in Construction Industry	3 Days	NCB/On site
4	IS:456-2000 : Code of Practice for Plain and Reinforced Concrete	2 Days	NCB/On site
5	IS:2386-1963 (Part I-VIII) Tests for Aggregate	3 Days	NCB/On site

NCB-B: NCB-Ballabgarh

NCB-H: NCB-Hyderabad

Sl. No.	Title of the Course with Reference No.	Duration / Date	Venue
6	Concrete Mix Design and Quality Control	5 Days	NCB/On site
7	Quality Control and Quality Assurance in Concrete Construction	5 days	NCB/On site
8	Modern Construction Practices for Concrete Construction	3 Days	NCB/On site
9	Cost Effective Construction Technologies	3 Days	NCB/On site
10	Design and Construction of Earthquake Resistant Concrete Structures	3 Days	NCB/On site
11	Project Management and Project Financing	3 Days	NCB/On site
12	Special Concrete in Aggressive Environments including Coastal Construction	4 Days	NCB/On site
13	Corrosion in Reinforced Concrete Structures and Remedial Measures	3 Days	NCB/On site
14	QC and QA in Concrete Construction for Hydro-electric Projects	4 Days	NCB/On site
15	Advances in Concrete Technology	4 Days	NCB/On site

GENERAL INFORMATION For Sponsoring Organisations and Participants

1.0 ELIGIBILITY

- Full-time Post Graduate Diploma in Cement Technology – Fresh and Working Professionals with M.Sc (Chemistry) or B.E/B.Tech (Chemical Engg.)
- Certificate Course in Testing & Quality Control of Cement and Cementitious Materials – Graduates (B.Sc. - Chemistry); Age Limit: 30 yrs
- Certificate Course in Environment Monitoring – Graduates (B.Sc. – Chemistry, Zoology and Botany); Age Limit: 30 yrs
- STC/SBC/CTP – Participants, in general, with Degree/Diploma in Science/Engineering.

2.0 COURSE FEE (per participant)

2.1 Long-Term Courses (Full-Time)

➤ Post-Graduate Diploma in Cement Technology

a) *Applicable for Participants from India, Bhutan & Nepal*

- ₹ 90,000/- per Participant on Non-residential basis for Non-sponsored Candidates, payable on Admission.
- ₹ 3,70,000/- per Participant for Industry Sponsored Candidates [Includes Tuition Fee, Boarding & Lodging on twin sharing basis and simulator training]
- A Security Deposit of ₹ 5,000/- (refundable after completion of the course) will be charged from each Participant of the Long-term Course on Admission.

b) *Applicable for Participants from Other Countries*

- US \$ 4500 per Participant on Non-residential basis for Non-sponsored Candidates, payable on Admission.
- US \$ 12725 per Participant for Industry Sponsored Candidates [Includes tuition fee, boarding & lodging on twin sharing basis and simulator training]
- A Security Deposit of US \$ 200 (refundable after completion of the course) will be charged from each Participant of the Long-term Course on Admission.

➤ Certificate Courses:

a) *Applicable for Participants from India, Bhutan & Nepal*

- ₹ 50,000/- per Participant on Non-residential basis for Non-sponsored Candidates, payable on Admission.
- ₹ 1,85,000/- per Participant for Industry Sponsored Candidates [Includes Tuition Fee, Boarding & Lodging on twin sharing basis and simulator training]
- A Security Deposit of ₹ 5,000/- (refundable after completion of the course) will be charged from each Participant of the Long-term Course on Admission.

b) *Applicable for Participants from Other Countries*

- US \$ 2500 per Participant on Non-residential basis for Non-sponsored Candidates, payable on Admission.
- US \$ 6500 per Participant for Industry Sponsored Candidates [Includes tuition fee, boarding & lodging on twin sharing basis and simulator training]
- A Security Deposit of US \$ 200 (refundable after completion of the course) will be charged from each Participant of the Long-term Course on Admission.

2.2 Short-Term Courses

a) *Applicable for Participants from India, Bhutan & Nepal*

Duration	*Fee for Member Cement Cos.(Applicable for courses under cement technology related areas only) (₹)		* Fee for Other Organisations (₹)	
	Non-Residential	Residential	Non-Residential	Residential
2 Days	8,500/-	13,600/-	9,500/-	14,600/-
3 Days	10,500/-	17,300/-	11,500/-	18,300/-
4 Days	13,500/-	22,000/-	14,500/-	23,000/-
5 Days	15,500/-	25,700/-	16,500/-	26,700/-

* in addition GST as applicable

b) Applicable for Participants from Other Countries

Duration	Non-Residential (US \$)	Residential (US \$)
2 Days	400	550
3 Days	600	800
4 Days	800	1050
5 Days	1000	1300

Non-Residential Course Fee includes Tuition, Course Material, Training Kit, Lunch, Refreshments and Technical Visit, If any.

Residential Course fee includes Tuition, Course Material, Training Kit, Lunch, Refreshments and Technical Visit, if any and boarding and lodging at the Hostel located within the NCB-Ballabgarh/NCB-Hyderabad campus.

The participants will make their own arrangement to reach NCB-Ballabgarh/NCB-Hyderabad and for return journey. The boarding and lodging facility will be provided from one night prior to the day of commencement of the programme to the night of the concluding day of the programme. Additional stay may be permitted on prior requests subject to availability of hostel accommodation, and will be charged @ ₹ 1700/- in addition GST as applicable and US \$ 50 per day for domestic and overseas participants respectively.

Discount on Course Fee

A discount of 10% and 15% in Course Fee will be extended if an organization nominates 3 and 4 or more Participants respectively for a Particular Short Term Training Course.

2.3 Simulator Based Courses

These Courses are conducted both at NCB Ballabgarh and Hyderabad. Both the units have Versatile – Trainer for imparting Hands-on-Training in the operation of the state-of-the-art Pyroprocessing and Grinding Systems. The duration of the courses is 3 and 4 days.

a) Applicable for Participants from India, Bhutan & Nepal

Duration	*Non-Residential Course Fee (₹)	*Residential Course Fee (₹)
3 Days	13000/-	19,800/-
4 Days	15000/-	23,500/-

* in addition GST as applicable

b) Applicable for Participants from Other Countries

Duration	Non-Residential (US \$)	Residential (US \$)
3 Days	650	850
4 Days	850	1100

2.4 Contact Training Programmes

a) Applicable for Participants from India, Bhutan & Nepal

- Course Fee : ₹ 10,000/- in addition GST as applicable, per day per participant on Non-residential basis.

b) Applicable for Participants from Other Countries

- Course Fee: US \$ 500 per day per Participant on Non-residential basis.

2.5 Special Group Training Programmes

For Special Group Training Programmes, Course Fee will be worked out based on the Duration and Nature of the Programme and intimated on request.

3.0 NCB-BALLABGARH

Ballabgarh Unit of NCB and its Centre for Continuing Education Services are located on the Delhi-Mathura Road, about 34 kms from Delhi. The campus is beautifully landscaped and has spacious class rooms fully equipped with state-of-the-art teaching aids. Ample well-furnished, air-conditioned accommodation with TV and mess facility is available in the hostel, which is located within the NCB-Ballabgarh Campus.

4.0 NCB-HYDERABAD

NCB-Hyderabad Unit is located on the Old Bombay Road (Mehidipatnam-Gachibowli Road) about 8 kms from Mehidipatnam (near Raidurg Police Station). The unit has spacious class rooms equipped with modern teaching aids. Ample well-furnished, air-conditioned accommodation with TV and mess facility is available in the hostel, which is located within the NCB-Hyderabad Campus.

5.0 BOARDING/LODGING FACILITIES

a) *Applicable for Participants from India, Bhutan & Nepal*

Residential charges inclusive of Breakfast, Dinner, Tea with Snacks for Training Courses of different Durations are as below:

Duration of Course	Residential Charges (₹)
For Short-Term/Contact Training Courses of duration up to two weeks	<ul style="list-style-type: none">• 1700/- per day (on single occupancy basis)• 1200/- per day (on twin sharing basis)
For Long-Term Course of duration of one month and above	<ul style="list-style-type: none">• 35,000/- per month (on twin sharing basis)
in addition GST as applicable	

i) Those interested in availing this facility may intimate well in advance with necessary remittance.

ii) Accompanying person if any, will be charged @ ₹ 1200/- in addition GST as applicable.

b) *Applicable for participants from Other Countries*

Residential charges inclusive of Breakfast, Dinner, Tea with Snacks for Training Courses of Different Durations are as below:

Duration of Course	Residential Charges
For Short-Term/Contact Training Courses of duration upto two weeks	<ul style="list-style-type: none">• US \$ 50 per day (on single occupancy basis)• US \$ 35 per day (on twin sharing basis)
For Long-Term Course of duration of one month and above	<ul style="list-style-type: none">• US \$ 875 per month (on twin sharing basis)

6.0 TRAINING METHODOLOGY AND SITE VISITS

The training techniques include Lectures, Group Discussions, Case Studies, Field Visits, Hands-on Simulator-based/Computer-based Training, Films and other audio-visual presentations, experience sharing, laboratory practical sessions, demonstration/special sessions with newly procured advanced equipment. Two-way interaction between the faculty and participants is encouraged.

7.0 LIBRARY

NCB has a vast knowledge resource in its well equipped library holding all the necessary books, periodicals and journals on all aspects of Cement Manufacture, Building Materials and Concrete Technology numbering over 46,000. The integrated bibliographic database consisting of about 38,000 records for interactive searches is being constantly updated and used by NCB Scientists as well as Cement plants and other Organizations.

8.0 MEDICAL FACILITY

Medical consultancy by NCB doctor is free of charge within NCB premises, on the days of his visit (Monday, Wednesday and Fridays, 1600h to 1700h) and can be availed in case of need.

The expenses toward medicines and consultancy/treatment at a Doctor's clinic will, however be borne by the participants.

9.0 ENROLMENT

Nomination along with the requisite Course Fee, through mode of payment as given below should be sent at least two weeks in advance to the address given below. Since the seats are limited, enrolment will be on "first-come-first-served" basis.

TRAINING COURSES TO BE HELD AT NCB-BALLABGARH

Centre for Continuing Education Services (CCE)
National Council for Cement and Building Materials
34 Km Stone, Delhi-Mathura Road (NH-2)
Ballabgarh - 121 004 (Haryana), INDIA
Tel : +91-129-4192245 / 469 / 468 / 467, 2241453
Fax : +91-129-2302300 (Telefax), 2242100, 2246175
E-mail : cceb@ncbindia.com, ncbcce@gmail.com
Website : <http://www.ncbindia.com>

PAN No.: AAATN2477N

TAN No. : DELN09625A

GST No. : 06AAATN2477N1Z6

Mode of Payment: Online

Details for ECS Payment:

i) State Bank of India, CRI Faridabad Branch (Code 03794), Faridabad-121004, Haryana, India

SB Account No. : 37301477161/ 10383962218	MICR Code : 110002194	IFSC Code : SBIN0003794
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ii) SBI Collect:

www.onlinesbi.com → SB collect → Proceed → State of corporate/Institution: (All India) → Type of corporate/Institution: (Govt. Department) → National Council for Cement and Building Materials → Training → Submit.
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iii) Canara Bank, PB. No. 12, 8-A, Nehru Ground, New Industrial Town, Faridabad, Haryana – 121 001, India

SB Account No. : 0330101028220	MICR Code : 110015108	IFSC Code : CNRB0000330
SWIFT CODE: CNRBINBBFAR (for overseas participants only)		

iv) Payment through Debit/Credit Card:

Participants can make payment through POS machine available at NCB-B by swiping Debit/Credit card.
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TRAINING COURSES TO BE HELD AT NCB-HYDERABAD

Centre for Continuing Education Services (CCE)
National Council for Cement and Building Materials
NCB Bhawan, Old Bombay Road, (Mehidipatnam-Gachibowli Road)
Hyderabad-500 104 (Telangana), INDIA
Tel : +91-40- 23180439, 23180424, 23180413, 23180400, 23002427
23180417 (After Office Hours)
Fax : +91-40-23000343, 23006739
E-mail : cceh@ncbindia.com, hyd2_ncbhrc@bsnl.in, 2015cceh@gmail.com

PAN No.: AAATN2477N	TAN No. : HYDN00104G	GST No. : 36AAATN 2477N1Z3
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Online Payment

Details for ECS Payment: State Bank of India, Darga Branch, Raidurg (Code 20540), Hyderabad 500008 (TS)

SB Account No. : 52119331455	MICR Code : 500002347	IFSC Code : SBIN0020540
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NOTE :

- Participants who have not enrolled but wish to enroll on the spot may kindly confirm the dates and venue on E-mail/Telephone/Fax before leaving their place to avoid any inconvenience.
- For Spot Registration, Candidates can make payment through POS machine available at NCB by swiping Debit/Credit card.
- For up-to-date information, please visit our website www.ncbindia.com.

10.0 REFUND

No refund of course fee will be made once the enrolment of the candidate is confirmed. Fee once paid can be adjusted against replacement or nomination for any other training programme during the calendar year. In case a course is cancelled on account of inadequate participation or any other unforeseeable reasons, the participants will be informed of the cancellation by telephone/e-mail/fax and the fee will be refunded. NCB will not be liable for any other expenses incurred by the company or the participant.

11.0 ROUTE MAP