



# NATIONWIDE NETWORK OF VOCATIONAL SKILL TRAINING & CERTIFICATION CENTRES FOR CONSTRUCTION INDUSTRY

## INVITATION TO ESTABLISH CIDC VOCATIONAL SKILL TRAINING & CERTIFICATION CENTRES

### PROSPECTUS & REQUEST FOR PROPOSAL FROM INSTITUTIONS

Invited by:

#### **Construction Industry Professional Training Council**

801, Hemkunt Chambers,

89, Nehru Place, New Delhi-110019

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## 1. PROGRAM BACKGROUND

As per the 11th National Plan Document prepared by Planning Commission, Government of India, Human Resource Development initiative in Construction Industry needs to be given a major thrust. As this activity of the sector has remained, more or less, unorganized till now, Manpower development has not been happening on an institutional & harmonized basis leading to exponential growth of skilled personnel in each sphere of construction. Pace of the supply of artisans, works supervisors or engineers and designers has been unable keep up with the respective pace in the demand of each category. Apart from the compromise over the quality of finished construction products it also has become one of the reasons of indifferent state of Construction Industry, and rampant time and cost overruns experienced while executing the construction projects.

**Construction Industry Development Council (CIDC)**, the apex organization of Construction Industry of India, has now decided to tackle this problem of lack of formal training and systems related to skill assessment and certification of construction workmen by establishing the Nationwide Network of Vocational Training & Certification Centres for Construction Industry under its Vocational Training partners, **Construction Industry Vocational Training Council (CIVTC)**. Such centres shall be conducting Vocational Skill Training & Certification Program of CIDC in the respective allotted geographical jurisdiction on behalf of CIDC as its Partner Institutions.

The present **Request For Proposals** is to invite **Expressions of Interest**, from the Vocational Training Institutes, Construction Companies, Corporate houses, manufacturing construction materials & equipment, NGOs involved in Social upliftment, who may be desirous to establish **CIDC Vocational Skill Training & Certification Centres (CIDC VSTCC)**, in their area of establishment & operation.

Interested institutions are required to make a proposal to CIVTC for such appointment. Along with the application they must provide relevant details to establish their suitability for being selected as a CIDC VSTCC. Such details need to, either exceed, or at least be equal to the minimum qualifying requirements as stipulated herein.

Based on the details provided by the institution, initial evaluation of the stated credentials shall be done and the institutions found suitable shall be selected for inspection by CIDC Inspection Team. Applicant Institution thereafter shall be inspected by the CIDC Team and based on the team's inspection final selection of the Institution as the Partner Institution (PI) shall be notified. Upon final selection, the institution shall be required to enter into a Memorandum of Understanding (MoU) with CIDC/CIVTC and initiate the operations as the PI for the stipulated duration.

During such operation period the PI shall be working on the program on the stipulated fee sharing basis with CIDC/CIVTC. In order to maintain the quality of operations regular inspection and checks shall be conducted by CIDC and reported to the institution for corrective measures, if any. Under extraneous circumstances, where the appointed center fails to implement the suggested corrective measures, CIDC/CIVTC may be compelled to terminate the centre's appointment as PI before the conclusion of appointment duration.

Continuation of the PI status of any institution shall be in line with the renewal procedures of the program and be subject to maintenance of the quality of operations and satisfactory performance during the appointment period.



## 2. CONSTRUCTION INDUSTRY DEVELOPMENT COUNCIL

Construction Industry Development Council (CIDC) was established in 1996 by the Planning Commission, Government of India along with the constituents of Indian Construction Industry as the apex organization to professionalize the functioning and monitor the construction activities.

CIDC provides a common platform to varied segments of India's Construction Industry and represents them for the furtherance of their collective interests. The council fulfills the gap of construction ministry, provides the impetus and the organizational infrastructure to raise quality levels across the industry.

CIDC has done substantial work in promoting skill up-gradation of construction personnel in addition to procedural, bureaucratic and technological changes in Construction Industry. CIDC has been the catalyst of change and has accelerated the process of self-reform that shall enable the industry to answer the challenges of the future.

### CIDC Objectives:

- Advise the Government on policy formulation related to Construction industry.
- Facilitate standardization of construction contracts and procedures.
- Augment resources of trained manpower at skilled worker level and construction management level.
- Devise mechanisms for workers' welfare and good practices.
- Create an environment which ensures equality of opportunity for all Indian contractors.
- Help evolve policies for financing and risk management.
- Help the industry move from the current state of rule-bound, lowest-price-based contracting to a more quality- conscious, time-bound, technology-driven improvement for all activities involved in construction.
- Interact with international organizations to upgrade technology, create common standards and facilitate construction services with transparency.

## 3. CONSTRUCTION INDUSTRY VOCATIONAL TRAINING COUNCIL (CIVTC)

With a view to bring the much needed improvements in economy, efficiency, quality and speed in construction, various Committees, Conferences and Working Groups have suggested many measures, a key recommendation being the setting up of an apex national agency as a full-time body to facilitate development of this segment of Human Resources in Construction Industry with support and involvement of all organizations concerned with construction including government bodies, public and private sector agencies, which take up and supervise the execution of projects, the manufacturers and suppliers of construction machinery equipment and materials, and the contractors who actually undertake the construction, and also the scientific, technical and training institutions, designers and consultants, so as to take a unified, balanced view on this vital issue, evolve necessary strategies and also implement them. Taking note of this, **the Construction Industry Development Council, after consultation with various agencies concerned, has decided to set up this Construction Industry Vocational Training Council as the apex national agency concerned with the aspects of Human Resource Development of the Secondary segment of Construction Industry.**

The Primary aim of CIVTC is the Human Resource Development in Construction Industry with following broad objectives:



- To liaise with various agencies concerned with construction, educational and training institutions for evolving relevant education and training programmes.
- To liaise with the concerned government departments and other bodies in the training of personnel for skill formation in construction trade and their availability for construction work. This will include comprehensive trades training and testing programmes for skilled and semi-skilled workers in construction trade.
- To advise on the safety, health, welfare, wages and other working and service conditions for construction workers which would be specifically relevant and practicable for the construction industry.
- To develop or cause development of courses, course materials, etc. and organise and/or cause to organisation of training programmes for work persons and supervisors.
- To undertake certification of skills of work persons and supervisors.
- To undertake certification of skills of work persons, supervisors, with Association on its own or jointly with the institutes / agencies or through them.

Based on these objectives the present RFP is being issued.

#### **4. CIDC's Training & Certification Programmes:**

Growth of Construction Industry, which is a manpower intensive industry, depends upon proper development of the workmen at each level and development of human capacities of individuals to afford them realistic growth opportunities. A worker engaged at any level of construction Industry should have opportunity to grow to the next level so that worker attrition could be stemmed out. Such opportunity can only occur if the workers are properly trained and their skills are certified on the national benchmark. To meet this demand, CIDC is vigorously engaged in promoting Human Resource Development in Construction Industry in all the levels of the Industry as detailed hereunder:

- **Workers Training and Certification;**

The largest manpower segment of Construction Industry is the Construction Workers segment where the skill development and certification requirements are substantial. To cater these requirements, a program under the auspices of Ministry of Labour in 55 different construction trades has been launched for the first time in India. The list of these trades is enclosed as **ANNEXURE VII**

- **Vocational Training for Secondary Level Students in various supervisory level occupations;**

The next level in construction industry is the supervisory workmen segment. To cater to this need of workers training for this segment, Vocational Training for Secondary Level Students for different vocations is being conducted. A person either having the secondary level education or having workers certification can be educated through these courses. The list for these courses is enclosed as **ANNEXURE VIII**.



- **Diplomas in different Construction Industry related Engineering Branches;**

There is a substantial requirement of Diploma holders in the construction industry. Construction Industry Development Council (CIDC) in association with several State Boards of Technical Education (SBTE) has come forward to meet this requirement and provide opportunity to lakhs of construction workers to move ahead in their careers while on the job. These Diplomas aim to incorporate a blend of practical aspects with academics in the curriculum. The class module is flexible and is designed as per the site conditions and time availability of the workers.

The Diploma programme in Engineering seeks to provide more accessible and quality skill development training to construction workers to meet the real work needs of manufacturing industry and prepare them for the changes in techniques, technologies, markets and employment patterns. This programme has been designed to enhance quality and productivity of construction workers through education and competency based training methodology. The streams at present are **Civil, Electrical, and Mechanical** Engineering.

- **Post Diplomas in Different Specializations;**

The next stage in the training ladder is the Post Diploma which one can acquire after getting a diploma qualification. The post diploma qualification helps the construction worker to become assistant managers who can assist manage the construction sites or projects. Two important streams identified are Post Diploma Courses in **Construction Technology and Management** and **Trenchless Technology** in which CIDC is conducting courses jointly with State Board of Technical Education.

- **Advance Level Training for Lateral Entry in Different Specializations;**

Another program at the same level as the Post Diploma is being conducted for persons from non-construction background but having a master's degree in science.

- **Subject specific Executive Development Programs for working professional;**

These are short duration continuous professional development programme to update the knowledge of senior professionals on various issues such as Project Management, Contract Administration, Personnel Management, Emerging Trends in latest Material & Technologies, Arbitration etc. A list of the current EDP is given at **ANNEXURE VIII**

## 5. QUALIFYING CRITERIA FOR SELECTION OF PARTNER INSTITUTION (PI)

Requirement of training being very large and spread country wide, it has been decided to have the training conducted under a number of Partner Institutions. Such Institutions should be desirous of being related to the construction industry and would be **capable of and interested in conducting training** for construction workers. Such institutions: -

- Should have been engaged in Construction / Vocational Trades Training or education as its main or major supporting activity, or should have carried out construction / erection business, or have been engaged in providing upstream or downstream services to the construction industry for the last five years and interested in promoting training and HRD for workers in the construction industry.**



- ii. Should be prepared to make a provision and be willing to invest in a Construction Trades **Training budget of at least Rs. Fifteen lakhs per year.**
- iii. Should be desirous of conducting training in at least **four trades** out of the listed Trades in this RfP.
- iv. Should agree to sign an MOU with CIDC/CIVTC along with financial arrangements as per guidelines framed by CIDC from time to time. A specimen of this MOU is attached **(ANNEXURE – III)**
- v. Should be able to set apart/establish training infrastructure like land, sheds, covered accommodation, furniture and fixtures, machinery, plant, fixed machines, bench, tools, machines adequate sets of hand tools and consumables for the proposed training.
- vi. Should ensure that **Training cost** (direct and indirect, including depreciation, maintenance, replenishment etc) is budgeted according to training plan. **Funds** should be **earmarked and released before any training course is started.** This will include cost of instructional and administrative manpower, whose emoluments will be at prevailing market rates. In addition, there should be a corpus fund set apart which should be not less than Rs. 20,000/- per trainee multiplied by the proposed number of trainees at any one time.
- vii. Should be in a position to give CIDC/CIVTC an assurance about continuity of employment **and incentives** for own refresher and up-gradation trainees and scope of employment for at least 50% of fresh trainees in and around the training institution. Formal / informal expressions of understanding from major employers will be required.
- viii. Along with the expression of interest, the institution desirous of being nominated as PI will be required to provide evidence of meeting the above criteria and possession of facilities, manpower and equipment as given in section 6 of this document.



## 6. MINIMUM INFRASTRUCTURE REQUIREMENTS

In order to be appointed as a Partner Institute the applicant must possess sufficient infrastructure facilities to conduct the intended Vocational Skill Training and Certification activities satisfactorily. Based on the training & testing requirements a list of infrastructure facilities is given below. In order to qualify, the applicant must have a direct access to at least the following infrastructure facilities:

### A. INFRASTRUCTURE

1	Land	:	Adequate
2	Class Room	:	1 Class Room for 20 trainees (Floor area – 30 sq.M)
3	Workshop/Laboratory (covered)	:	50 Sq.M. per trade (or combination of small trades)
4	Office (Floor Area)		
	4.1 Director	:	20 Sq.M.
	4.2 Addl. Director	:	11 Sq.M
	4.3 Dy. Director	:	11 Sq.M
	4.4 Asstt. Director	:	5.5 Sq.M. each (16.5 Sq.M. for 3 Asst. Directors)
	4.5 Faculty Room	:	16.5 Sq.M
	4.6 Library	:	16.5 Sq.M
5	Trainees Common room for indoor games	:	20 Sq.M
6	Store room and Store Keeper Room	:	20 Sq.M
7	Open Training yard	:	50 Sq.M for each trade (open space)
8	Worker's Canteen	:	20 Sq.M
9	Fire fighting equipment (Buckets, Sand, Shovel fire extinguisher, hose)	:	One set
10	Toilets		
	a) For Faculty & Staff		1 No. (5 sqm)
	b) For trainees		1 No. (10 sqm)
11	Outdoor games		Basket Ball Court

### B. FACULTY

- 1 One instructor (Class room) for each trade per two batches of 20 trainees each
- 2 One instructor (practical training) for each trade per two batches of 20 trainees
- 3 Faculty members will be selected/ approved by a committee appointed by CIDC

### C. OTHER STAFF

- 1 Office Assistant 1 No. (per trg. Institute)
- 2 Storekeeper 1 No. (per trg. Institute)
- 3 Helper 2 Nos. (per trg institute)
- 4 Security Guards & Safaiwala To be out sourced

### D. EQUIPMENT

Trade related equipment as per the minimum stipulated quantities. Depending on the trades to be offered, CIDC/CIVTC shall notify the Institutions the requirements in this respect and the applicant may communicate to CIDC/CIVTC seeking such details and indicating the trade of interest.



## SAMPLE LIST

For the reference of the applicants a recommendatory list of equipment for conducting minimum two batches for some sample trades are given hereunder:

### Masonry and Concreting:

Concrete Mixers 10/7	-	2 Nos
Electrical Vibrators	-	2 Nos
Petrol Vibrators	-	2 Nos
Vibrator Needle Set	-	Lot
Concrete Cube moulds	-	18 Nos
Cube Testing Machine	-	1 No.
Sieve Shaker	-	1 Set
Weighing Balance	-	1 No.
Platform Weighing Machine	-	1 No.
Laboratory equipment	-	1 Lot(CBR/ Vicat needle / Briquette testing / Pychnometer)
Hand tools	-	Full sets

### Bar Bending:

Vices	-	5 No.s
Jacks	-	5 No.s
Bending bars etc	-	Lot
Chisel and Hammer sets	-	Lot
Punch and Dies	-	Lot
Bar cutting machine	-	1 No.
Bar bending machine	-	1 No.

### Carpentry :

Hand tool set	-	10 sets (Jack plane/shaper/chisels/screw drivers/ various types of saws/auls / adges /bits/ clamps / electrical hand drills/ burmah etc.)
Bench drill	-	2 Nos
Circular saw	-	1 No.
Band saw	-	1 No.
Scales etc	-	Lot
Implements	-	Lot (Props, scaffolds, clamps, U-clamps, shuttering plates, Tie-rods, bracings, adjusting screws etc.

### Surveying

Dumpy Level	Auto level, Laser level
Theodolite	Plain table
Total Station	Level Staff
Ranging Rod	Chain (30 metre)
Steel Tape (15 M & 30 M)	Drawing Board



### Measuring Instruments

Calipers (Vernier, ordinary)	-	20 Sets
Screw gauge	-	20 Nos.
Metal Tape	-	20 Nos.
Set squares	-	20 Nos.
Tee squares	-	20 Nos.
Spanners	-	20 Sets
Screw Drivers	-	20 Sets
Pliers	-	20 Nos.
Mini Drafter	-	20 Nos.

Note: The facilities indicated above are suitable for a 'B' level city (Cities with populations between 10,00,000 ~ 20,00,000). For larger cities or parts thereof or larger geographical areas where the intake strengths are expected to be higher a pro-rata enhancement in the minimum requirements shall be considered.



## 7. FEE STRUCTURE

The applicant PI shall be required to pay, at various stages, the following fee for appointment and subsequent operations:

Sl. No.	Description	Amount	Remarks
1.	Cost of Application form	1,000/-	Non Refundable
2.	Application Processing fee	5,000/-	Non Refundable
3.	Inspection Travel Charges	At Actual	For two persons traveling from New Delhi to Applicant's Establishment for each travel
4.	Center Authorization Fee	2,20,000/-	One Time
5.	Annual Renewal Fee	25,000/-	Annually
6.	Fee Share	As per MoU	As per MoU

The revenue for the centre shall be through the fee collected from the candidates. The present training duration and fee structure is provided below:

S. No.	Type of training	Maximum duration	Fee Structure (Rupees)
i.	Training of Artisans / Workers	3 Months	6,000/- to 15,000/-
ii.	Training of Supervisory Personnel / Pre Diploma	4 months	6,000/- to 10,000/-
iii.	Diploma in Engineering	3 years	70,000/- to 90,000/-
iv.	Advance / Post Diploma	1 year	60,000/- to 80,000/-
v.	Executive Diploma Program	2 – 5 days	15,000/- to 35,000/-

## 8. INSTITUTION INSPECTION

Prior to appointment and renewal the institution facilities shall be inspected by a team of two CIDC experts to evaluate the adequacy of the infrastructure and other relevant parameters as detailed in section 6. The inspection team shall be visiting the premise for the evaluation as per an agreed inspection schedule. The inspection process shall be conducted at the applicant institution in the presence of its nominated representative who would be jointly signing the inspection report on behalf of the institution. The Inspection report format is detailed in Attachment IV.

Inspection report thus prepared shall be submitted to CIDC for the issuance of acceptance or deficiency statement. Should there be certain rectifiable deficiencies the institution shall be required to rectify the same within a specified time frame. In order to avoid issuance of deficiency statement applicant institutions are advised to evaluate the sufficiency of the available infrastructure prior to inviting the inspection team for evaluation.

Should the inspection report be satisfactory, the acceptance letter shall be issued to the applicant institution by CIDC/CIVTC. This acceptance letter would also request the applicant institution for signing the MoU and initiating the subsequent activities as per the MoU.



## 9. JURISDICTION OF OPERATION

The appointed PI shall be authorized to admit students, conduct training of artisans and workers, conduct testing and certification under CIDC schemes for a specific defined region and schemes. Such region would be termed as the Operational Jurisdiction of that PI and notified in the MoU. The region of operation shall be selected through mutual consultation, post inspection.

This would be defined based on the assessment of the prowesses of the applicant. A larger region shall require more infrastructure facilities and other relevant capabilities.

Applicants therefore should indicate their interest about Operational Jurisdiction at the time of application. The infrastructure facilities explained in section 6 of this document are suitable for any institution operating in a 'B' level city. As also indicated, for larger regions, enhanced requirements need to be worked out on a pro-rata basis.

Should the available infrastructure with the applicant institution be sufficient enough, the proposal shall be admitted for evaluation and inspection if found suitable otherwise. In the event of any shortfall in such facilities or capabilities, applicant institution shall be notified about the shortfall and requested to either enhance its facilities or indicate the interest for the Operational Jurisdiction suiting to the available facilities in accordance with the details in section 6 of this document.

While renewing the authorization for the subsequent appointments, Operational Jurisdiction allotted to any specific center shall also be evaluated and necessary changes, as may be required at such times, shall be incorporated in the renewal orders. Similarly in the event of launch of new courses or disciplines the same process shall be followed.

Allotment of any specific region or areas or a truncated area as the Operational shall be the sole prerogative of CIDC/CIVTC and no claims shall be admitted by CIDC/CIVTC on this account.

## 10. REQUEST FOR PROPOSAL

Based on the above premise CIVTC now invites proposals from interested and eligible institutions fulfilling the minimum qualification norms for appointment as a CIDC Vocational Skill Training & Certification Centre.

The formats, forms and annexure for completing the application form are provided in subsequent pages



ANNEXURE I

**Application Letter Format: TO BE PROVIDED ON ORGANIZATION LETTER HEAD**

To,

The Director  
Construction Industry Vocational Training Council  
801 Hemkunt Chambers, 89 Nehru Place  
New Delhi-110019

**Sub: Proposal for becoming the Partner Institute of CIDC/CIVTC**

Dear Sir,

With reference to your Request for Proposal to establish CIDC Vocational Skill Training & Certification Centers, We hereby propose to establish a **CIDC Vocational Skill Training & Certification Centre** at our institution at .....(Please indicate the location) for the region of .....(Please indicate the desired region of operation). We further express our desire to fulfill all terms and conditions and complete all formalities in this regard.

1. The Cost of the prospectus and RFP document (Rs. 1000/-) has been deposited by us vide receipt No..... dated ..... with the Construction Industry Development Council. Photocopy of the receipt is enclosed.  
Or  
The Cost of the prospectus and RFP document (Rs. 1000/-) is being deposited vide enclosed Demand Draft / Banker's cheque No..... dated ..... drawn on ..... in favour of the **Construction Industry Development Council**. Payable at New Delhi.
2. Amount of Application processing fee is being deposited vide enclosed DD/Banker's cheque No..... dated ..... drawn on ..... for Rs. 5,000/- (in words rupees Five thousand only) in favor of the **Construction Industry Development Council**. is payable at New Delhi.
3. We agree to abide by the process to be evolved by CIDC/ CIVTC for evaluating our application
4. Should our proposal be accepted, we hereby agree to abide by Terms & Conditions to complete all formalities regarding inspection of our premises / sharing of relevant technical / commercial / financial information in this regard. We are not putting any additional condition from our side.





**ANNEXURE II**

**Application Form:**

**1. DETAILS ABOUT THE ORGANIZATION / INSTITUTE INCLUDING LIST OF BOARD MEMEBRS**

<b>Full legal name:</b>	
<b>Acronym:</b>	
<b>Nationality:</b>	
<b>Legal status</b>	
<b>Official address:</b>	
<b>Postal address:</b>	
<b>Telephone number:</b> Country code + city code + number	
<b>Fax number:</b> Country code + city code + number	
<b>E-mail of the Organization:</b>	
<b>Website of the Organization:</b>	
<b>Contact person's email address:</b>	

2. When was the organization founded and when did it start its activities?

3. What are the main activities of the organization at present?

4. List of the management board / committee of your organization

5. Courses Offered



**6. UGC Funded / Government supported (Provide details)**

**7. Present student strength across all courses**

- 
- 
- 
- 

**8. No. of staff**

- Permanent Faculty
- Adjunct Faculty
- Visiting Faculty
- Administrative Staff

**9. Infrastructure / Facilities**

- No of class rooms
- Audio-visual equipment
- Auditorium
- Computer labs
- Other labs
- Survey equipment

**10. Industry Affiliations**

**11. Alumni details including network strength**

**12. Placement record during last three years**

**Please use additional sheets for providing information on any of the above**



**ANNEXURE III**

**DRAFT OF MEMORANDUM OF UNDERSTANDING**



**ANNEXURE IV**

**INSPECTION REPORT FORMAT**

- ☞ **Members of Team** 1.  
(With Addresses)
  
- 2.
  
- 3.
  
- ☞ **Name of the Institution** :  
(Contact details)
  
- ☞ **Designated Coordinator / Nodal Officer by the Institution** :  
(Contact details)
  
- ☞ **Faculty Members and / or other officers associated** :

**PROFORMA FOR ASSESSMENT**

- ☞ **Equipment & Tools** : *Please see the list at Annexure VI (for recording)*
  
- ☞ **Softwares / Data Processing facilities** :
  
- ☞ **Nature of Applications / assignments handed in the area of Testing Certification of Personnel / others during past 4/5 years** : 2006 2007 2008 2009 2010  
(Please use additional sheets if needed)



☞ **Observations / Remarks of Professional Team :**

☞ **Observations / Remarks of Nodal Officer/s :**

.....  
**Members of Professional Team**

**Coordinator, Designate**



**ANNEXURE V**

**INFRASTRUCTURE ASSESSMENT REPORT FORMAT**

**A. PHYSICAL INFRASTRUCTURE**

- 1 Land :
- 2 Class Room :
- 3 Workshop/Laboratory :
- (covered)
- 4 Office :
- 4.1 Director :
- 4.2 Addl. Director :
- 4.3 Dy. Director :
- 4.4 Asstt. Director :
- 4.5 Faculty Room :
- 4.6 Library :
- 5 Trainees Common room for indoor games :
- 6 Store room and Store Keeper Room :
- 7 Open Training yard :
- 8 Worker's Canteen :
- 9 Fire fighting equipment (Buckets, Sand, Shovel fire extinguisher, hose) :
- 10 Toilets  
a) For Faculty & Staff  
b) For trainees
- 11 Outdoor games

**B. FACULTY**

- 1 \_\_\_instructors (Class room) for each trade per two batches of 20 trainees each\*
- 2 \_\_\_instructor (practical training) for each trade per two batches of 20 trainees\*
- 3 \_\_\_ Other Faculty members \*

\* CVs Enclosed

**C. OTHER STAFF**

- 1 Office Assistant
- 2 Storekeeper
- 3 Helper
- 4 Security Guards & Safaiwala

**D. EQUIPMENT**

Trade related equipment as per the minimum stipulated quantities from CIDC/CIVTC on the basis of the trades to be offered.



**ANNEXURE VI**

**CONSTRUCTION WORKERS TESTING & CERTIFICATION PROGRAMME TRADES LIST**

<b>S. No.</b>	<b>Course</b>	<b>Course Code</b>
1.	Mason	CIVT-001
2.	Rubble Mason	CIVT-002
3.	Carpenter	CIVT-003
4.	Shuttering Carpenter	CIVT-004
5.	Bar-bender/Steel Fixer	CIVT-005
6.	Plasterer	CIVT-006
7.	Tiler	CIVT-007
8.	Painter	CIVT-008
9.	Plumber	CIVT-009
10.	Surveyor	CIVT-010
11.	Roof Sheet Layer	CIVT-011
12.	Foreman	CIVT-012
13.	Stone Cutter and Dresser	CIVT-013
14.	Blasters	CIVT-014
15.	Drillers	CIVT-015
16.	Excavator	CIVT-016
17.	General Works Supervisor	CIVT-017
18.	Welder	CIVT-018
19.	Electrical Fitter	CIVT-019
20.	Electrical Wireman	CIVT-020
21.	Mate	CIVT-021
22.	Spray Man	CIVT-022
23.	Electrician	CIVT-023
24.	Fitter	CIVT-024
25.	Auto Electrician	CIVT-025
26.	Black Smith	CIVT-026
27.	Block Maker	CIVT-027
28.	Fabricator	CIVT-028



29.	Turner	CIVT-029
30.	Dozer Operators	CIVT-030
31.	Floor Grinding Operator	CIVT-031
32.	Concrete Vibrator Operator	CIVT-032
33.	Concrete Mixer Operator	CIVT-033
34.	Hot Mix Plant Operator	CIVT-034
35.	OMC Technician	CIVT-035
36.	Vibratory Road Roller Operator	CIVT-036
37.	Riggers	CIVT-037
38.	Tar Boiler Operator	CIVT-038
39.	Mechanic – Earth Moving Equipment	CIVT-039
40.	Mechanic - Auto / Heavy vehicles	CIVT-040
41.	Mechanic	CIVT-041
42.	Hydraulic Excavator Operator	CIVT-042
43.	Motorized Grader Operator	CIVT-043
44.	Wheeled Loader Operator	CIVT-044
45.	Crawler Dozer Operator	CIVT-045
46.	Crane Operator	CIVT-046
47.	Road Roller Operators	CIVT-047
48.	Batching Plant Operator	CIVT-048
49.	Machine Operator	CIVT-049
50.	Stone Crusher Operators	CIVT-050
51.	Store Keeper	CIVT-051
52.	Dumper Operators	CIVT-052
53.	Public Health Related trades (Testing of Water & Sewerage etc.)	CIVT-053
54.	Tower Crane Erection and Operations (Concreting Operations)	CIVT-054
55.	Laboratory Technicians (Concreting operations)	CIVT-055



**ANNEXURE VII**

**LIST OF VOCATIONAL TRAINING COURSES FOR SECONDARY LEVEL STUDENTS**

<b>SL.</b>	<b>COURSE</b>
1.	Construction Site Store Keepers.
2.	Construction Site Land Surveyors.
3.	Construction Site General Works Supervisors.
4.	Construction Site Quantity Estimators.
5.	Construction Site Building Materials Lab Technicians.
6.	Construction Site Accountants.
7.	Soil Lab Technicians
8.	Asphalt Lab Technicians



ANNEXURE VIII

LIST OF EXECUTIVE DEVELOPMENT PROGRAMS

S. No	List of Programmes
01	Legal Aspects of Personnel Management
02	Financial & Risk Management in Construction / Infrastructure Projects
03	Computer Aided Project Management Tools & Techniques(with Computer practical + Project Management CD)
04	Fast Track Construction
05	Tax Management in Infrastructure Projects
06	Legal side of Contract Management, Arbitration and dispute settlement mechanism
07	Capacity Building for Engineers in Earthquake Risk Management
08	Computer Aided Cost Estimating and Quantity Surveying Techniques (With One Day Computer Practical)
09	Project Management for Rapid Results
10	Construction and Quality Management of Roads & Bridges
11	Green and Intelligent Building Construction Technologies
12	Emerging Trends in Construction Management
13	Managing Construction Sites
14	Latest Trends in Construction Management TQM, Safety
15	Real Estate Projects - conceptualization till completion
16	Contract Management - FIDIC and World Bank Conditions