

## APPENDIX - A

# LIST OF EQUIPMENTS

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Following are equipments required at Study Centre:

### (a) Survey Equipments

- i. Compass
- ii. Chain, 30 m
- iii. Arrow
- iv. Ranging rod
- v. Flag Staff
- vi. Optical square
- vii. Offset rod
- viii. Plane Table
- ix. Alidade
- x. Plumb bob
- xi. Dumpy Level
- xii. Levelling Staff
- xiii. Theodolite
- xiv. Total Station

### (b) Construction Equipments

- i. Trowel
  - ii. Chiesel hammer
  - iii. Planer
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- iv. Kadhai
- v. Bucket
- vi. Mug
- vii. Poker Rod
- viii. Chiesel
- ix. Rod Bending Platform
- x. Safety helmet
- xi. Screen
- xii. Sievers of different sizes
- xiii. Kudal
- xiv. Gainta
- xv. Measuring box
- xvi. Liner/fiber tape
- xvii. Steel tape
- xviii. M.S. scaffolding models or photos
- xix. Models of different types of construction such as ceiling, Arches etc.

**(c) Videos of Modern Construction Machines**

- i. Earth mover
- ii. Escalators/lift for high rise building construction
- iii. Struts for the safety of trenches during the cutting of soil
- iv. Spray equipment for protection against termites attack

**(d) Materials for painting and polishing**

- i. All types of Brushes
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- ii. Scratching plate
- iii. Steel Brush
- iv. Spray machine

**(e) Equipment for floor construction**

- i. Grinding machine
- ii. Tenon saw
- iii. Chiesel
- iv. Steel hacksaw

**(f) Iron fabrication**

- i. Cutting machine
- ii. Welding machine
- iii. Drill machine

**(g) Equipment for construction of drains and sewers**

- i. Thread cutting tool
- ii. Sockets
- iii. Bends of different types
- iv. T-joint
- v. Water sealing devices

**(h) Videos of Road construction related equipments**

- i. Bitumen sprayer
  - ii. Bitumen mixer
  - iii. Camber checking templates
  - iv. Compaction Testing M/C and core cutters
  - v. Oven
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**APPENDIX - B**  
**List of Class Room Requirements**

		<b>Size (Minimum)</b>	<b>No</b>
1.	Director's Room (including toilet)	8.0 ft × 8.0 ft	1
2.	Directors Office	10.0 ft × 20.0 ft	1
3.	Reception room	10.0 ft × 5.0 ft	1
4.	Account section	20.0 ft × 20.0 ft	1
5.	Class rooms including white board, chairs and tables		2
6.	Practical room		1 (2, if possible)
7.	Library		1
8.	Computers (with internet facility) Printer (multi tasking)		5 1
9.	Over head projector		2
10.	Common Toilets for		1
	(a) Students		1
	(b) Staff		1
11.	Control room for examination controller		1
12.	Strong room related to exam		1
13.	Store		1
14.	Canteen		1

## APPENDIX - C

### Faculty and supporting staff

Faculty and supporting staff	Academic/professional Qualifications	Experience	No.
Teaching staff	Degree/Diploma in civil Engineering in the related field	3 years for Diploma holders	1 for 20 students (2 faculty 1 full time 1 parttime)
Instructor for Lab	ITI	1 year	Batch size 20- 25
Attendant to assist the lab instructor for the maintenance of the lab			2

#### Batch Size

- There can be maximum 2 batches in the study centre and there should be 20 students in each batch.
  - Study centre should take theory as well as practical classes for minimum 4 hours per day basis
  - Each student should have a work book, which is signed by the trainer daily. Students will write their experience related to construction work.
  - Students are evaluated annually on the basis of their written and oral exams
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