

Appendix D

Materials preparation

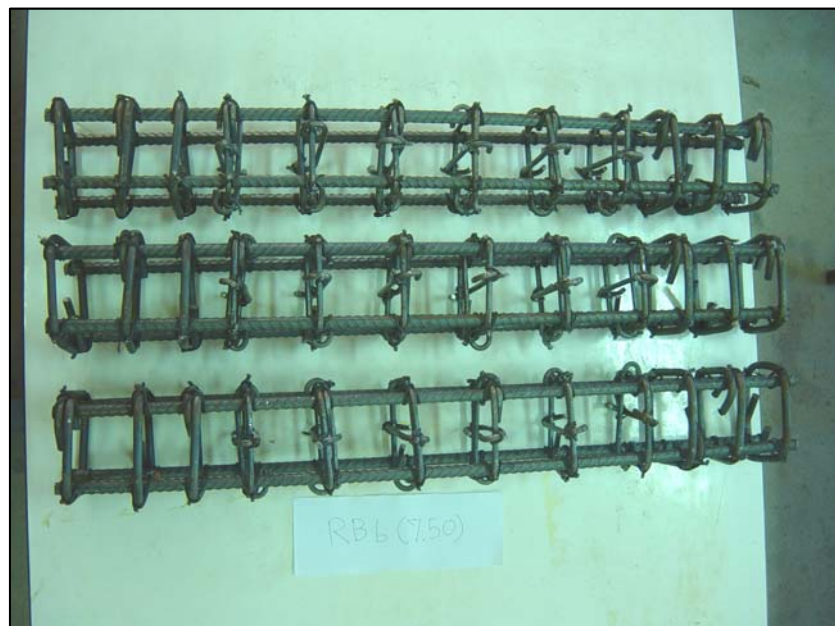
Specimen preparation

1. Preparation of transverse reinforcement



Appendix Figure D1 Transverse reinforcements are used for testing.

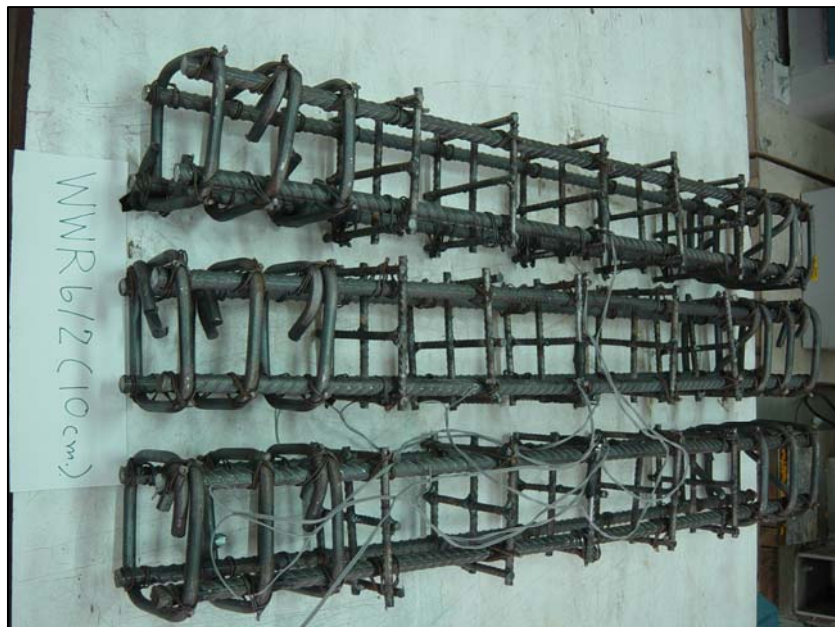
2. Preparation of reinforcement bar



Appendix Figure D2 Transverse reinforcements bar, RB6(7.5)



Appendix Figure D3 Transverse reinforcement bar, RB6(10)



Appendix Figure D4 Transverse reinforcement bar, CDR6/2(10)



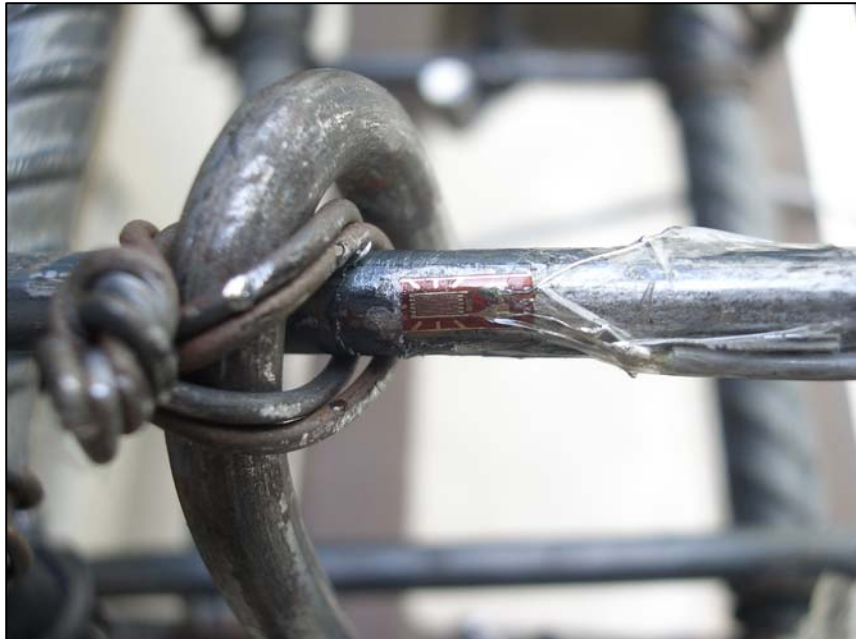
Appendix Figure D5 Transverse reinforcement bar, CDR6/1(10) and No Tie

3. Strain gage type KC-60-120A1-11L1M2R



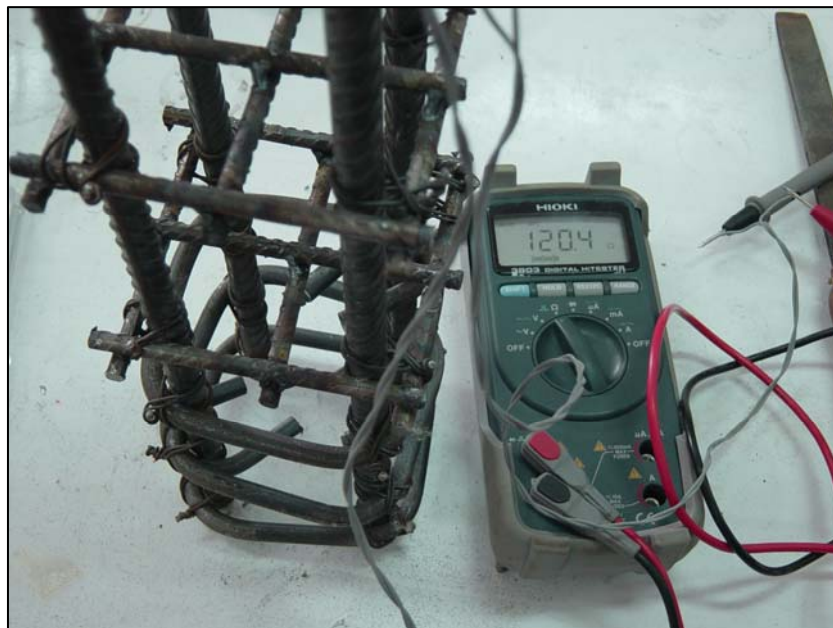
Appendix Figure D6 Strain gage's package

4. Strain gages are installed to transverse reinforcement



Appendix Figure D7 Strain gages installed

5. Connectivity check



Appendix Figure D8 Connectivity check

6. Prepare standard cylinder mold



Appendix Figure D9 Standard cylindrical mold

7. Specimens ready for casting concrete



Appendix Figure D10 Preparation of formwork

8. Prepare materials



Appendix Figure D11 Materials preparation

9. Mixing machine



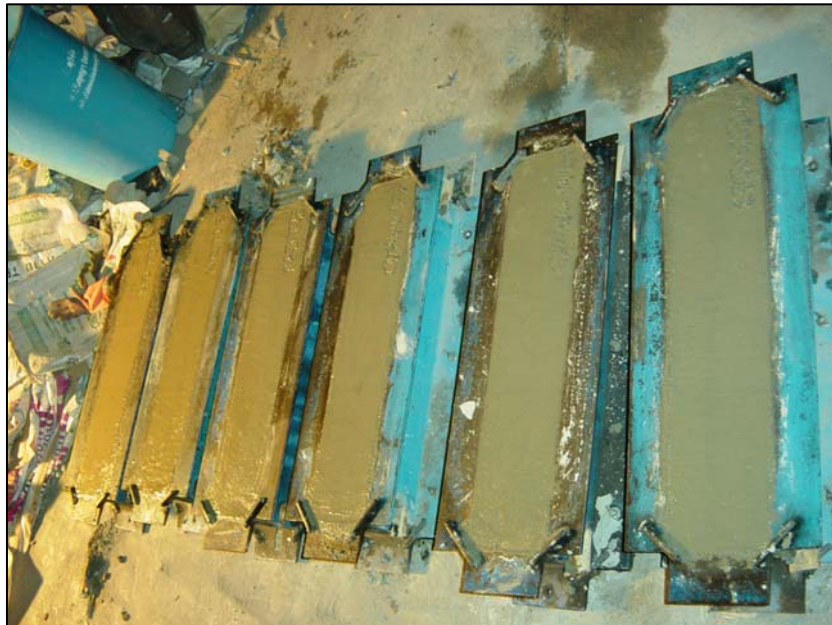
Appendix Figure D12 Mixing concrete

10. Casting concrete and vibration



Appendix Figure D13 Casting concrete

11. Concrete cast in formwork



Appendix Figure D14 Concrete cast in formwork

12. Concretes were cast in standard molds



Appendix Figure D15 Concrete cast in standard molds

13. Removed formwork and preparing for LDVT



Appendix Figure D16 Preparation for LDVT

13. Curing



Appendix Figure D17 Curing

14. The both ends of specimens were capped with sulfur compound



Appendix Figure D18 Capped with sulfur compound

15. The both ends of specimens were capped with sulfur compound



Appendix Figure D19 Cylindrical specimens for compressive test

Appendix E
Material and Equipment

Material and Equipments for Experiment

1. Set up instruments and specimen



Appendix Figure E1 Material and Equipment no.1

2. Personal computer for data record



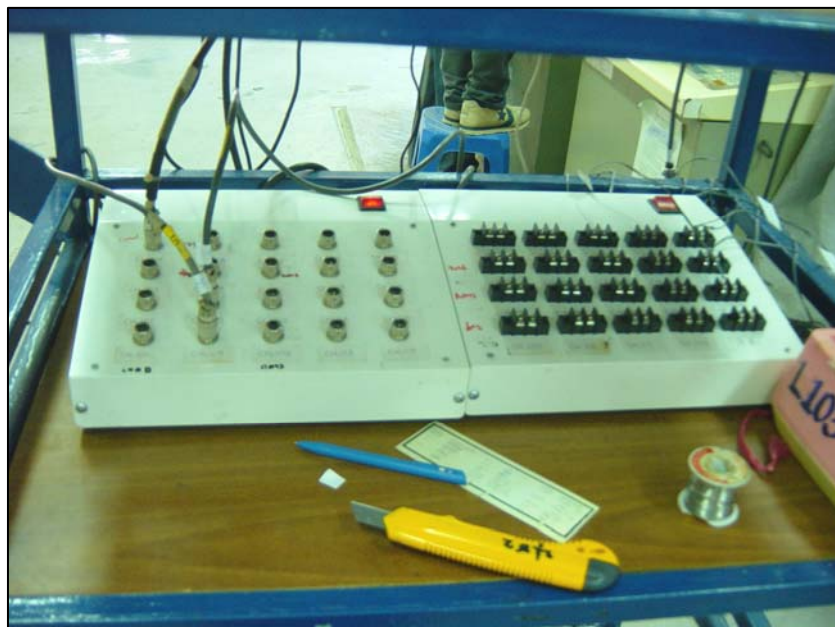
Appendix Figure E2 Material and Equipment no.2

3. Data logger



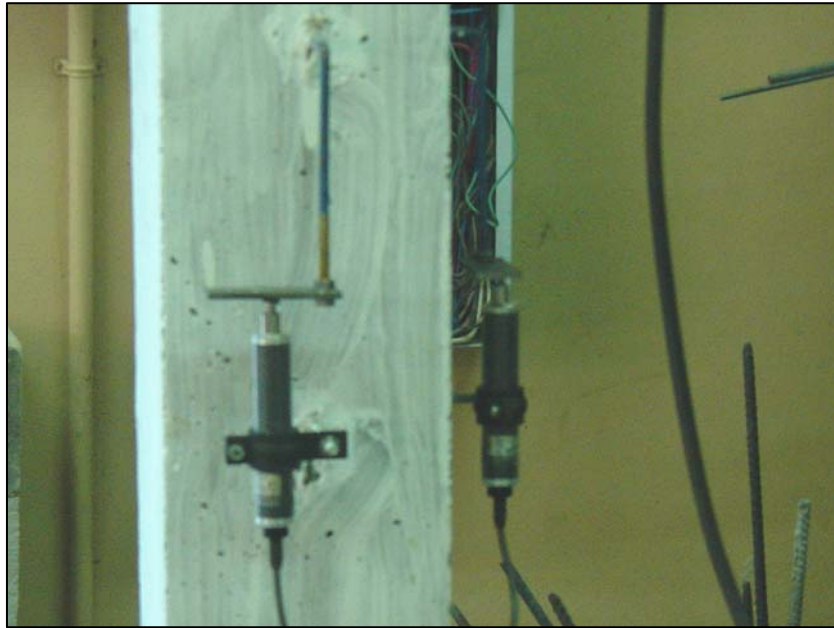
Appendix Figure E3 Material and Equipment no.3

4. Transducer



Appendix Figure E4 Material and Equipment no.4

5. Set up LDVT

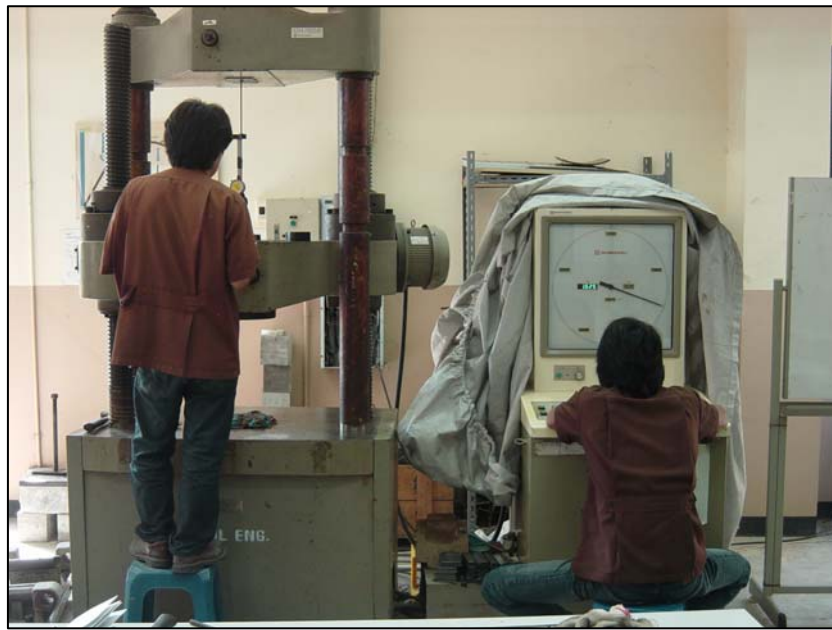


Appendix Figure E5 Material and Equipment no.5

6. Set up dial gage for steel tensile test



Appendix Figure E6 Material and Equipment no.6



Appendix Figure E7 Material and Equipment no.7

7. Around 60 – 80 % of peak load will occur tidal crack



Appendix Figure E8 Tidal crack

8. Failure surface made visible.



Appendix Figure E9 Visible crack

9. Failure surface was made visible by removing the loose cover of concrete



Appendix Figure E10 Final stage