

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ
០៩ ០៩ * ១១ ៩១

មជ្ឈមណ្ឌលសិទ្ធិការពារសង្គមកម្ពុជា

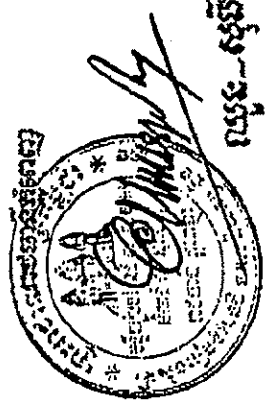
លេខ: ៣៧ ០៥៥៥៥

០១០២ * ០១០២

សង្កាត់ : ភ្នំពេញ
ខណ្ឌ : ដូនពេញ
ក្រុង : ភ្នំពេញ

ក្រុមប្រឹក្សាភិបាល : ១០ ខែ ២០០៤

គ.ប ត្រូវបានបង្កើតឡើងដើម្បី គ្រប់គ្រង និង គ្រប់គ្រង
ប្រទេសកម្ពុជា និង គ្រប់គ្រង ប្រទេសកម្ពុជា



ក្រសួងព្រះបរមរាជវាំង : ៩

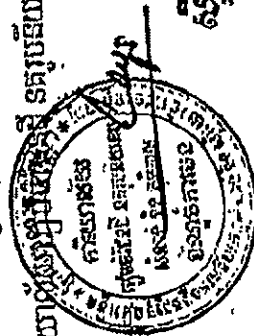
ឈ្មោះ : ឈ្មោះភូមិ : ៣០
ផ្ទះលេខ : ៤១៥-៤១៧-២៧៧ និង ៤៣០ ៣០៤
F= 405 1L= 2

ស្រីប្រទេស :

ខាងជើង :
ខាងត្បូង :
ខាងកើត :
ខាងលិច :

សំណង់ : ១១ ខែ ២០០៤

ប្រធានការិយាល័យសិទ្ធិការពារសង្គមកម្ពុជា និង ភូមិបាល



ស្រី ប្រទេស

ក្រសួងព្រះបរមរាជវាំង : ៩
ឈ្មោះ : ឈ្មោះភូមិ : ៣០
ផ្ទះលេខ : ៤១៥-៤១៧-២៧៧ និង ៤៣០ ៣០៤
F= 405 1L= 2

4/5

អក្ខរសញ្ញាខ្លួន - D1

លេខ : 255 I 0.0.6.0

ភិនភាគក្រាហ្វិក		អត្រានុកូលដ្ឋានអ្នកកាន់កាប់				ការផ្តល់ប្តូរ		សេចក្តីផ្សេងៗ
		នាមប្រក្រតួល និងនាមខ្លួន ទាំងប្តី ឬប្រពន្ធ	ថ្ងៃ ខែ ឆ្នាំ និងស្រុកកំណើត	សវនាការ	ឈ្មោះ	លេខទារិកដោយសង្ខេបនៃលិខិត សញ្ញា និងសាលប្រកបតុលាការ	ចន្លកលីអចលនវត្ថុ	
ឈ្មោះ	ទំហំ	៥៥០៥៥				៧០៧ ៥៥០៥៥	៧០៧ ៥៥០៥៥	អត្រានុកូលដ្ឋាន ៧០៧ ៥៥០៥៥
	ស	វ៉ែតធី ធីតាធីតា				១០៧៥ ៥៥០៥៥	១០៧៥ ៥៥០៥៥	កម្រិត ១០៧៥ ៥៥០៥៥
		(នាមប្រក្រតួល និងនាមខ្លួន ប្រពន្ធ សុខាធិបាល)				៧០៧ ៥៥០៥៥	៧០៧ ៥៥០៥៥	៧០៧ ៥៥០៥៥
								A = 12,70 x 69,00
								B = 4,72 x 27,89
								C = 4,60 x 6,99
								D = 4,60 x 6,40
								E = 7,50 x 46,30
								F = 9,20 x 22,02
								G = 10,00 x 66,00 (7,44 x 66)
								H = 5,50 x 22,60
								I = 8,90 x 25,00
								J = 7,70 x 21,50
								K = 10,00 x 36,00
								L = 5,50 x 11,00
								M = 7,30 x 7,70
								N = 4,60 x 6,00
								៧០៧ ៥៥០៥៥

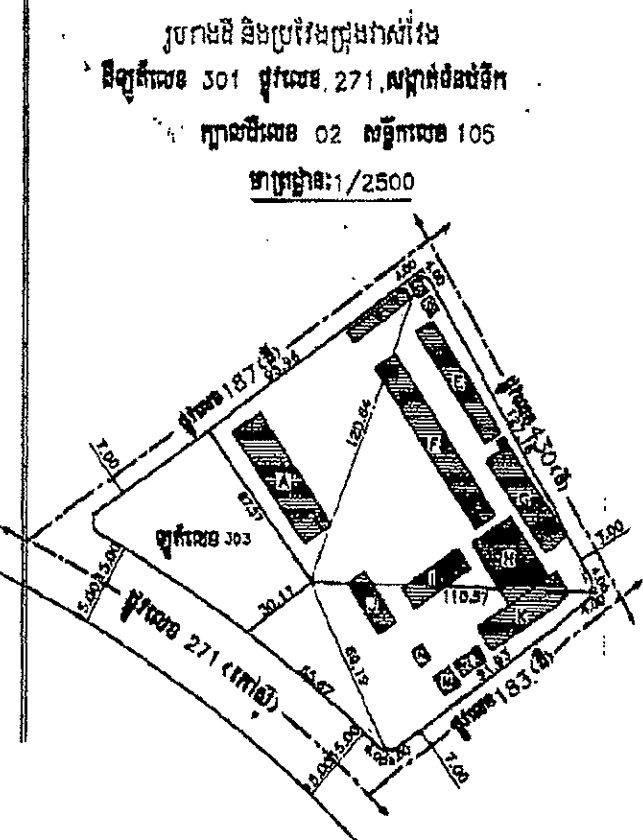
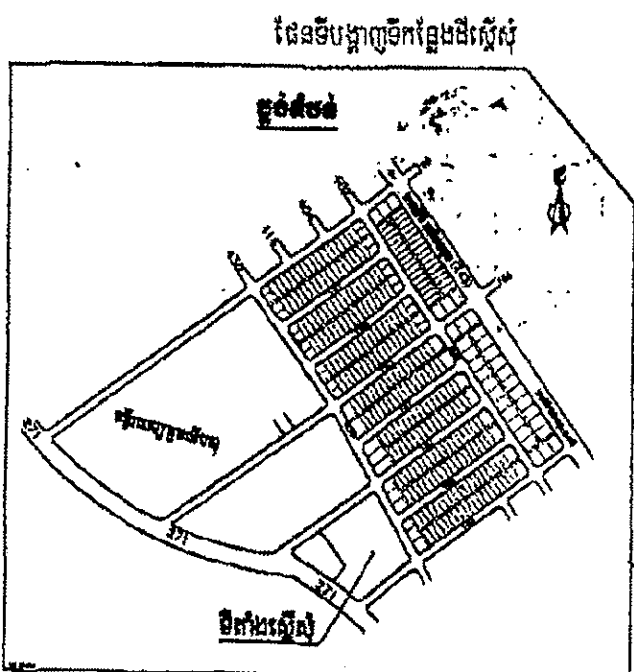
ប្រែប្រួល :

- ខាងជើងទល់ទឹង..... ៤៣០
 - ខាងត្បូងទល់ទឹង..... ២៧១ + ៣០៣
 - ខាងកើតទល់ទឹង..... ៤៩៣
 - ខាងលិចទល់ទឹង..... ៤៩៧
- ទំហំ..... ១,៧៣៣ ៤០ អា..... ៣៥៥ សម្ព័ន្ធ

អ្នកមានប្រតិបត្តិការសិទ្ធិ (១) ក្នុងការប្រែប្រួលទំហំដី
 (ក្រោមផែនទី និងលេខ)
 មហាវិថី ៤៥៦

អ្នកស្នើសុំ
 (គឺ ក្រសួងសេដ្ឋកិច្ច និងហិរញ្ញវត្ថុ)

(១) ចំពោះដីដែលមានប្រែប្រួលទំហំដី មិនចាំបាច់ធ្វើតេស្តដីអ្នកដាំដុះ ប្រែប្រួល ព្រៃធម្មតា និងប្រែប្រួល ព្រៃធម្មតា ឬ ព្រៃធម្មតា ។



គំនូសសំគាល់:

- ដីស្នើសុំប្រែប្រួលទំហំដី : 01ha40a38ca
- ▨ អគារសោយភោជន៍ : A=12.70x49.00 , B=4.70x27.00
 C=4.60x6.00 , D=4.50x6.00
 E=7.30x48.30 , F=9.20x70.00
 G=(10.00x44.00)-(7.00x3.80)
 H=18.00x26.00 , I=8.30x25.00
 J=7.70x21.50 , K=10.00x38.00
 L=5.50x11.00 , M=7.30x7.70

វាស់ដោយក្បួនវាស់ស្របច្បាប់
 ថ្ងៃទី ២០ ខែ ៧ ឆ្នាំ ២០០៤

(Handwritten signature)

៧

ចំណើយរបស់អ្នកស្នើសុំ : ខ្ញុំ គាត់ប្រធានក្រុមប្រឹក្សាភិបាលក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ
លេខ 127 អនក្រ.បក ចុះថ្ងៃទី 19 ខែ ធ្នូ ឆ្នាំ 2001 របស់ប្រធានក្រុមប្រឹក្សាភិបាល
ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ
ប្រធាន



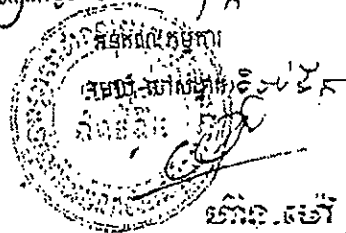
ជាង ភ្នំពេញ
(គាត់ប្រធានក្រុមប្រឹក្សាភិបាលក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ)

ចំណើយរបស់អ្នកជំនាញ : ខ្ញុំ

៦/៧

របាយការណ៍របស់អ្នកស្នើសុំ : ខ្ញុំ គាត់ប្រធានក្រុមប្រឹក្សាភិបាលក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ
លេខ 127 អនក្រ.បក ចុះថ្ងៃទី 19 ខែ ធ្នូ ឆ្នាំ 2001 របស់ប្រធានក្រុមប្រឹក្សាភិបាល
ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ ក្រុមហ៊ុន កម្ពុជា ភ្នំពេញ

ថ្ងៃទី ១២ ខែ កុម្ភៈ ឆ្នាំ ២០០៤

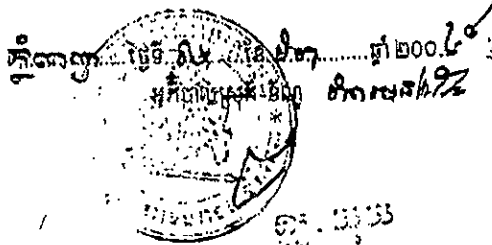


យោបល់របស់ការិយាល័យរៀបចំផែនទីសកលមូលដ្ឋាន និងស៊ីវិល

- ភ្នំពេញ ថ្ងៃទី ១២ ខែ កុម្ភៈ ឆ្នាំ ២០០៤

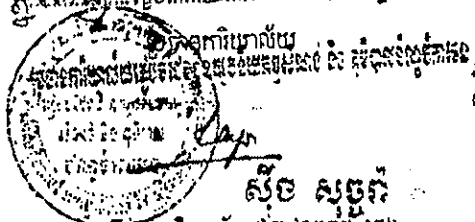
យោបល់របស់អភិបាលខេត្ត-ខ័ណ្ឌ

- ខេត្តកណ្តាល ថ្ងៃទី ១២ ខែ កុម្ភៈ ឆ្នាំ ២០០៤



យោបល់របស់ការិយាល័យរុក្ខាប្រមាញ់ខេត្ត-ក្រុង

ថ្ងៃទី ០១ ខែ ឧសភា ឆ្នាំ ២០០៤



យោបល់របស់ការិយាល័យជលផលខេត្ត-ក្រុង

ថ្ងៃទី.....ខែ.....ឆ្នាំ ២០០៤

ការិយាល័យរុក្ខាប្រមាញ់

សេចក្តីសម្រេចរបស់អភិបាលខេត្ត-ក្រុង

Handwritten signature

ថ្ងៃទី.....ខែ.....ឆ្នាំ ២០០៤

ការិយាល័យជលផល

យោបល់របស់មន្ទីររៀបចំផែនទីសកលមូលដ្ឋាន និងស៊ីវិល

Handwritten signature

ថ្ងៃទី ០៣ ខែ ឧសភា ឆ្នាំ ២០០៤

ថ្ងៃទី ០១ ខែ កុម្ភៈ ឆ្នាំ ២០០៤
ខេត្ត-ក្រុង.....
ស្រុក-ខ័ណ្ឌ.....
ឃុំ-សង្កាត់.....
ភូមិ.....

ព្រះរាជាណាចក្រកម្ពុជា
ជាតិ សាសនា ព្រះមហាក្សត្រ

គណៈកម្មាធិការជាតិរៀបចំផែនទី

យោបល់របស់ការិយាល័យជលផលខេត្ត-ក្រុង
របស់ឈ្មោះ.....ស្រុក.....ស្រុក.....
កំណែសម្រួល.....ស្រុក.....ស្រុក.....

យោងតាមពាក្យស្នើសុំកាន់កាប់ដីធ្លីប្រទេសខ្មែរ.....ខែ.....ឆ្នាំ ២០០០...
 បង្កាន់ដៃបង់ប្រាក់ថ្លៃអង្កេតលេខ.....ចុះថ្ងៃទី.....ខែ.....ឆ្នាំ ២០០០... ទំនួនប្រាក់.....រៀល
 ដីស្ថិតនៅក្នុងភូមិ.....ឃុំ-សង្កាត់.....ស្រុក-ខ័ណ្ឌ.....ខេត្ត-ប្រទេស.....
 ឈ្មោះដី.....ប្រភេទដី.....ទំហំដីប្រមាណ.....ហិកតា.....ស.អ. ៣៨.៧៥៧.៧៧
 ២៧

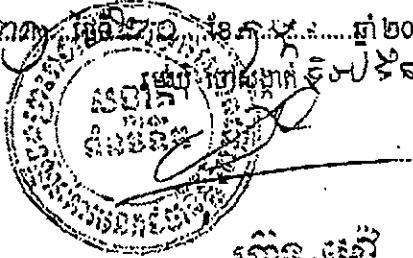
ទ្រព្យសម្បត្តិ :

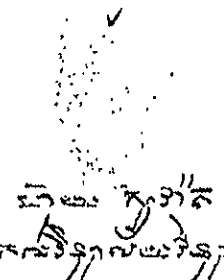
អំពីសវនា

ថ្មី	ប្រពន្ធ
អត្តសញ្ញាណប័ណ្ណលេខ.....
នាមប្រកួស និងនាមទូទៅ.....
ថ្ងៃ-ខែ-ឆ្នាំកំណើត.....
ទីកន្លែងដែលកើត.....
សញ្ជាតិ.....
ឥណ្ឌូកឈ្មោះ.....
ម្តាយឈ្មោះ.....
ទីលំនៅបច្ចុប្បន្ន.....

សាក្សី ១ ២ ស្នាមមេដៃស្តាំរបស់អ្នកស្នើសុំ

លេខ : ១៥៦/០២
 បានឃើញ និងបញ្ជាក់ថា សារភាពខាងលើ
 ពិតជាត្រឹមត្រូវ ។

ថ្ងៃទី ២៧ ខែ ៧ ឆ្នាំ ២០០០

 ហត្ថលេខា


 (គឺជាសារភាពលើទ្រព្យសម្បត្តិរបស់អ្នកស្នើសុំ)

TECHNICAL ANALYSIS OF EXISTING BUILDINGS

Period of Investigation : 12 February 2004 ~ 22 February 2004

Investigated Buildings : Existing Classroom, Administration and Toilet Buildings

Contents of Investigation :

- 1) Resistance of concrete by Schmidt Hammer Test (refer to the attached summary)
- 2) Plumb Check
- 3) Settlement Check
- 4) Cement Mortar Exfoliation and Crack
- 5) Wooden Truss Deterioration Check
- 6) Water Leakage Check
- 7) Roof Check
- 8) Paint Deterioration Check
- 9) Doors and Windows Deterioration Check
- 10) Investigation of Mechanical and Electrical Installations

1. Outline of Existing Buildings

Name of Building	Year Built	Structure	Finishing
Classroom Building	Approx. In 1968	Reinforced Concrete (3 stories)	Floor : Porcelain tile (partially, washed terrazzo) Wall : Mortar plaster w/ paint finish Ceiling: Exposed, mortar plaster w/ paint finish Roof: Wooden truss on brick slab w/ corrugated cement sheet.
Administration Building	Approx. In 1968	Reinforced Concrete (2 stories)	Floor : Porcelain tile (partially, washed terrazzo) Wall : Mortar plaster w/ paint finish Ceiling: Exposed, mortar plaster w/ paint finish Roof: Wooden truss on brick slab w/ corrugated cement sheet
Toilet Building	Approx. In 1968	Reinforced Concrete (Single story)	Floor : Porcelain tile (partially, washed terrazzo) Wall : Mortar plaster w/ paint finish Ceiling: Paint finish Roof: Wooden truss w/ corrugated cement sheet

2. Condition of Existing Building

Floor	There found almost no crack but there were a few worn out floor tiles. Also, there found no settlement.
External Wall	Although there found deteriorated roof parapets and mortar plaster around door and window openings, such deterioration was not affect any structural member. There found hair cracks on plastered wall.
Internal Wall	Although there found hair cracks on plastered wall, there found no deterioration.
Column	All columns were found to be in good condition, except a few cracks on washed terrazzo finish.
Girder and Beam	All girders and beams were found to be in good condition, except a few clacks on plaster finish.
Ceiling	It was judged that roof slab was deteriorated because a quite few water leakage from the roof slab were found. It was assumed that the roof slab was consisted of bricks (except toilet building).
Roof	Wooden trusses were fund to be deteriorated and there found a quite few damages on corrugated cement roofing sheets. And, it was judged that trusses and roofing sheets should be replaced.

3. Results of Field Investigation

Structural Strength	Sufficient concrete strength was observed as shown in the attached Schmidt Hammer test results. And, it is judged that all structural members, such as column, girder and beam and floor slab have more than required concrete strength.
Plumb	Plumb of all the buildings was fine.
Wall	There found a quite few deteriorated parts especially, roof parapets as well as hair cracks. However, there found no structural crack usually produced due to deflection of column and girder.
Settlement	There found no settlement at all the buildings.

4. Conclusion

Although all the existing buildings are approximately 35 years old, there was no structural crack on any of the existing buildings and it was deemed that there was no settlement occurred in the past. Plumb of all the existing buildings was also quite fine. Therefore, it was judged that all the existing buildings to be renovated are structurally sound, giving a consideration of the followings:

Structure There is no structural crack occurred due to corrosion and expansion and all structural members retain sufficient structural strength. It is also judged that concrete is not neutralized yet.

Roof It is deemed necessary to remove deteriorated existing brick roof slab because of water leakage. It is also deemed necessary to replace wooden roof trusses and corrugated cement roof sheets.

Wall It is necessary to demolish all brick walls and to construct new brick walls with mortar plaster finish giving a consideration of the use of the building after renovation because there are a quite few hair cracks on the existing

mortar plaster finish.

- Joinery** It is deemed necessary to renew all the existing doors and windows as many of them are either deteriorated and/or damaged.
- Ceiling** It is recommended to provide suspended ceiling at the time of renovation because there are a quite few hair cracks on the existing plaster finish and deterioration thereof.
- Floor** Although there is no structural defect, it is deemed necessary to renew all existing floor tiles and washed terrazzo finish because there are a quite few floor tiles are worn out.

MINISTRY OF PUBLIC WORKS AND TRANSPORT

BUILDING AND PUBLIC WORKS LABORATORY

Boulevard de Pochentong B.P. 2380 Phnom Penh
 Tel : (855) 23 362 545 , Fax : (855) 23 880 415
 HP : (855) 12 810 803

SUMMARY TEST OF RESULT

File Number : 2004/ M / 1571

File Number : 2004/ M / 1571

Object : Measure the resistance of

Subject : Measure the resistance of concrete by method no-destructive testing (Schmidt test hammer)
 for the project Renovation of technical school for Medical Care in Kingdom of Cambodia.

Testing date:04/03/2004

Study Building

Sym.	Name	1	2	3	4	5	6	7	8	9	10	Average	St. Deviat	I.Scl.90	Re/Mpa
ST.1															
E-1	Column	47	44	50	45	46	45	46	46	46	56	47.10	3.33	42.84	44.00
E-2	Beam	43	47	42	42	41	44	41	40	43	48	43.30	2.37	40.27	40.00
E-3	Slab	49	51	41	47	44	52	46	44	50	50	47.40	3.41	43.04	38.20
ST.2															
E-1	Column	48	41	50	49	50	49	41	40	42	42	45.20	4.07	39.99	39.00
E-2	Beam	43	42	50	46	54	54	43	43	44	50	46.90	4.46	41.19	41.00
E-3	Slab	50	42	47	53	49	52	49	46	46	48	48.20	3.03	44.32	41.00

Director of Laboratory

KEO LEAP

05 MAR 2004



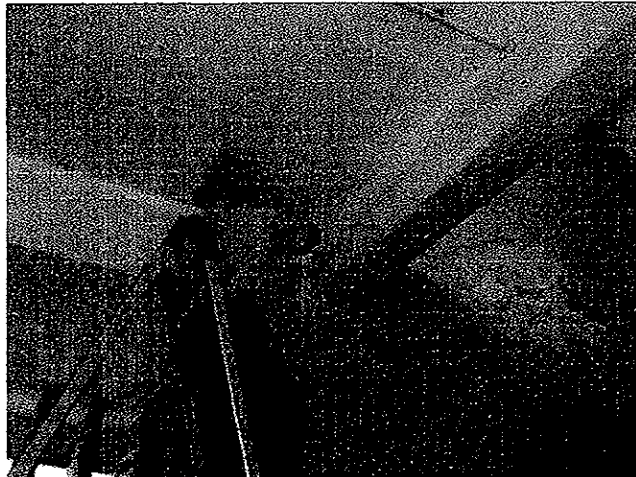
Stair No2 E-1
Chipping Column for testing



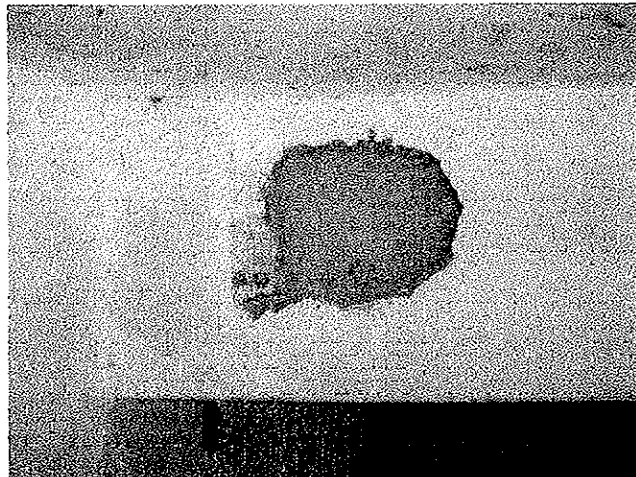
Stair No2 E-1
Marking



Stair No2 E-1
Testing Concrete



**Stair No2 E-2
Chipping Beam for testing**



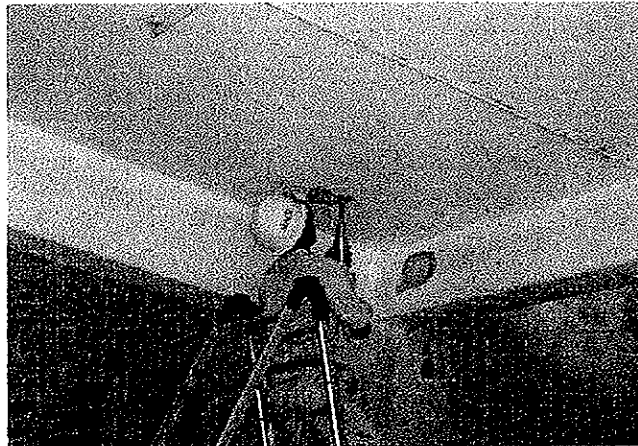
**Stair No2 E-2
Chipping Finish**



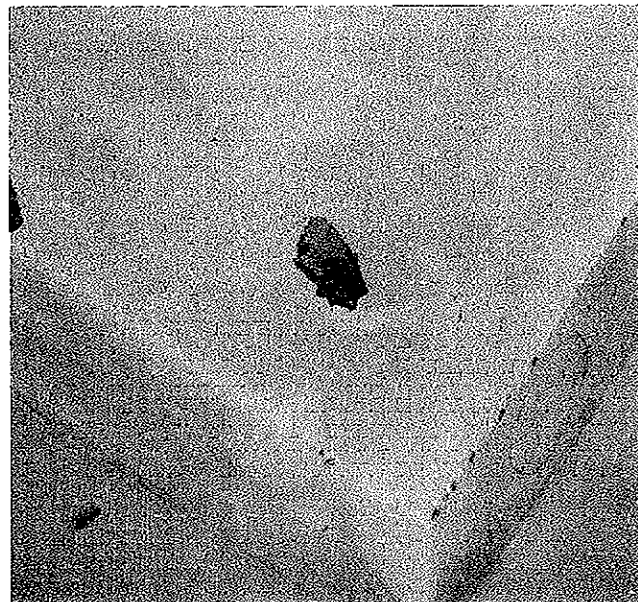
**Stair No2 E-2
Testing Concrete**



Stair No2 E-2
Chipping Slab for testing



Stair No2 E-2
Testing Concrete



Roof Slab



Stair No1 E-1
Chipping Column for testing



Stair No1 E-1
Testing Column



**Stair No1 E-2
Chipping Beam for testing**



**Stair No1 E-2
Testing Concrete**



**Stair No1 E-2
Testing Concrete**

MINISTRY OF PUBLIC WORKS AND TRANSPORT
BUILDING AND PUBLIC WORKS LABORATORY

Boulevard de Pochentong B.P. 2380 Phnom Penh
Tel : (855) 23 362 545 , Fax : (855) 23 880 415
HP : (855) 12 810 803

SUMMARY TEST OF RESULT

File Number : 2004/ M / 1571

Subject : Measure the resistance of concrete by method no-destructive testing (Schmidt test hammer)
for the project Renovation of technical school for Medical Care in Kingdom of Cambodia.

Study Building

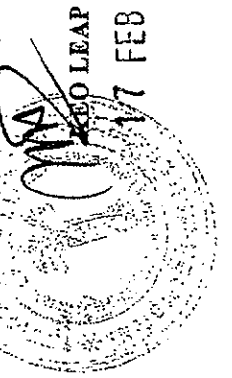
Sym.	Name	1	2	3	4	5	6	7	8	9	10	Average	St. Deviat	I.Scl.90	Re/Mpa
ST.1	G.F														
E0-1	Column	56	54	61	58	56	54	57	54	56	56	56.20	2.03	53.6	68.00
E0-2	Slab	56	58	57	58	56	58	56	56	58	58	57.10	0.94	55.89	70.00
E0-3	Beam	44	44	42	40	39	46	44	43	46	40	42.80	2.35	39.79	40.00
ST.2	G.F														
E0-1	Column	58	54	63	60	60	62	62	60	62	58	59.20	2.54	56.64	70.00
E0-2	Slab	54	53	53	48	52	50	48	48	51	50	50.70	2.14	47.96	59.00
E0-3	Beam	43	46	42	40	47	43	43	40	45	45	43.70	2.60	40.37	40.00
ST.1	1st FL														
E1-1	Column	55	53	55	53	48	53	56	52	49	49	52.30	2.64	48.92	54.00
E1-2	Slab	44	43	40	38	37	36	48	40	40	42	40.80	3.40	36.44	38.000
E1-3	Beam	44	41	47	43	42	47	45	44	43	45	44.10	1.86	41.71	43.00

Sym.	Name	1	2	3	4	5	6	7	8	9	10	Average	St. Deviat	I.Scl.90
Study Building														
ST.2	1st FL													
E1-1	Column	50	48	48	50	50	50	46	48	46	51	48.70	1.67	46.56
E1-2	Slab	54	54	52	51	51	50	52	54	53	55	52.60	1.56	50.60
E1-3	Beam	52	48	46	44	40	43	40	48	46	46	45.30	3.52	40.79
ST.1	2nd FL													
E2-1	Column	44	46	47	49	44	44	48	48	47	44	46.33	1.86	43.94
E2-2	Slab	42	40	38	38	36	36	37	38	40	38	38.30	1.79	36.00
E2-3	Beam	46	44	40	40	40	44	46	48	46	46	44.00	2.82	40.39
ST.2	2nd FL													
E2-1	Column	46	48	46	48	47	54	43	48	46	44	47.00	2.82	43.39
E2-2	Slab	51	50	48	49	50	53	50	51	48	46	49.60	1.85	47.23
E2-3	Beam	41	38	38	37	38	36	36	34	35	38	37.10	1.86	34.71
Roof	Roof Slab	30	33	28	24	28	32	34	32	30	34	29.50	3.32	25.25

Administration Building

Sym.	Name	1	2	3	4	5	6	7	8	9	10	Average	St. Deviat	I.Scl.90	Rc/Mpa
G.F															
E0-1	Column	42	39	42	42	43	43	44	47	44	42	42.80	1.93	40.32	40.00
E0-2	Slab	52	53	51	51	50	43	52	53	44	45	50.00	3.00	46.16	55.00
E0-3	Beam	42	43	40	44	42	42	44	43	42	44	42.60	1.20	41.56	42.00
ST.1	1st FL														
E1-1	Column	44	35	43	47	43	43	42	42	39	41	41.90	3.01	38.40	36.00
E1-2	Slab	47	52	52	52	50	46	44	44	44	45	47.60	3.35	43.31	50.00
E1-3	Beam	36	38	37	36	38	38	39	36	36	38	37.20	1.07	35.83	32.00
E1-4	Column	36	38	36	38	37	40	37	37	37	38	37.00	1.30	35.43	31.00
Roof	Roof slab	34	33	34	34	36	34	33	34	34	33	33.90	0.83	32.83	33.00

The Director of Laboratory



Existing Equipment List inTSMC

Department	Description	Q'ty	Brand/Model etc.	Situation		Remarks
				Work'g	Broken	
Clinical Lab	Agiateur	1	Type2 18-0100			
Clinical Lab	Agiateur	1	VM3			
Clinical Lab	Autoclave	1	CK 111			
Clinical Lab	Autoclave (Big)	1	626-E			
Clinical Lab	Balance (Electric)	1	A&D HF-200			
Clinical Lab	Balance (Electric)	1	S2000			
Clinical Lab	Balance	3	Bosch			
Clinical Lab	Binding Machine	1	GBC2000 IM2000			
Clinical Lab	Calculator (Big)	9	manual type			
Clinical Lab	Calculator (Small)	6	manual type			
Clinical Lab	Centrifuge	1	Labofuge 400			from Sihanhouk Hospital
Clinical Lab	Centrifuge	2	HERMLE Z230A			not in good condition
Clinical Lab	Centrifuge	1	LXJ-84-01.44			
Clinical Lab	Comp. CD-RD	1	PRIDE			
Clinical Lab	Comp./CD-Player/Speaker	1	Compaq ProLinea5100			
Clinical Lab	Computer Lap top	1	Toshiba T2100CS			
Clinical Lab	Computer Lap top	1	Toshiba T2130CS			
Clinical Lab	Cupboard	2				
Clinical Lab	Electric Stove	1				
Clinical Lab	Electric Stove	1				
Clinical Lab	Electric water bath	1	BOEKEL 148003			
Clinical Lab	Refridgerator	1	Engel			
Clinical Lab	Incubator	1	BINDER			
Clinical Lab	Incubator	1	MEMMERT			
Clinical Lab	Incubator	1	Si-5001C			
Clinical Lab	Key board	1	KFKEA 4XA			
Clinical Lab	Key board	1	KPQEA 42A			
Clinical Lab	Key board	1	MITSUMI			
Clinical Lab	Key board	1	Packard Bell			
Clinical Lab	Microscope	1	Labolux FEIT 11			
Clinical Lab	Microscope	1	Labolux FEIT 11			
Clinical Lab	Microscope	18	Olympus CHD			outside light
Clinical Lab	Microscope/Electric	5	Olympus CHD			MOH
Clinical Lab	Monitor	1	Compaq			
Clinical Lab	Monitor	1	PRIDE			
Clinical Lab	Overhead Projector	1	CELITEL 912			
Clinical Lab	Overhead Projector / table	1	CABIN			
Clinical Lab	Overhead Projector / table	1	CELITEL			
Clinical Lab	pH meter	2	WPA C6T			
Clinical Lab	Photocopy Machine	1	Canon NP2120			
Clinical Lab	Printer	1	HP DeskJet 660C			
Clinical Lab	Printer	1	HP DeskJet 870C			
Clinical Lab	Printer 6L	1	Laser Jet 6L			
Clinical Lab	Refrigerator	1	Mitsubisi			
Clinical Lab	Refrigerator	1	National NP-660			
Clinical Lab	Refrigerator / Freezer	2	Toshiba GR-R403			
Clinical Lab	Scanner	1	HP scan Jet 4C			
Clinical Lab	Slide Projector	1	Kodak S-AV 1050			
Clinical Lab	Spectrophotometre	2	Vitalab 10			

Department	Description	Q'ty	Brand/Model etc.	Situation		Remarks
				Work'g	Broken	
Clinical Lab	Table Lamp for Microscopy	10				
Clinical Lab	TV set	1				
Clinical Lab	Typewriter	1	Canon V008			
Clinical Lab	Universal Power Supply	1	UPS 1500			
Clinical Lab	Water purifying Machine	1				
Clinical Lab	White Screen	1				
Nursing	Respiratory System	1	Philips Harris			ADB
Nursing	Lung Model	1	Philips Harris			ADB
Nursing	Heart Model	2	Philips Harris			ADB
Nursing	Blood Circulation Model	1	Philips Harris			ADB
Nursing	Digestive System Model	2	Philips Harris			ADB
Nursing	Giant Model Villus	2	Philips Harris			ADB
Nursing	Lower Jaw	1	Philips Harris			ADB
Nursing	Tooth Model	1	Philips Harris			ADB
Nursing	Stomach Model	1	Philips Harris			ADB
Nursing	Liver Model	1	Philips Harris			ADB
Nursing	Kidney and Adrenal	2	Philips Harris			ADB
Nursing	Human Eye	2	Philips Harris			ADB
Nursing	Human Larynx	1	Philips Harris			ADB
Nursing	Plastic Skeleton	1	Philips Harris			ADB
Nursing	Muscular System Chart	2	Philips Harris			ADB
Nursing	Emergency Soft Pack with Spacer	2	Philips Harris			ADB
Nursing	Oxygen Regulator	1	Philips Harris			ADB
Nursing	Baby Manikin	1	Philips Harris			ADB
Nursing	I.V. Trainer	1	Philips Harris			ADB
Nursing	Intubation Trainer	1	Philips Harris			ADB
Nursing	Anatomical Human Body (bust)	2				
Nursing	Anatomical Human Body (small)	3				
Nursing	Nasal/Throat/Pharynx Model	3				
Nursing	Pregnant Uterus Model	3				
Nursing	Chest Model	2				
Nursing	Weighing Scale for Infant	2				
Nursing	Weighing Scale for Adult	1				
Nursing	Plastic Skeleton	1				
Nursing	Baby Manikin	4				
TMP&L	Computer	2	Compaq Deskpro 2000			ADB
TMP&L	Monitor	2				ADB
TMP&L	Printer	2				ADB
TMP&L	UPS/AVR	2	3KW			ADB
TMP&L	Photocopy	1	SHARP SF-1016			ADB
TMP&L	Generator	1	Petbow 110KVA			ADB
TMP&L	TV set	1	SONY KV-J21PF2			ADB
TMP&L	Video Cassette Recorder	1	SONY SLV-7000KPS			ADB
TMP&L	Audio -Digital Amplifier	1				ADB
TMP&L	Slide Projector	1				ADB
TMP&L	Speaker	2				ADB
TMP&L	Microphone	2				ADB
TMP&L	Microphone stand (Floor stand)	1				ADB
TMP&L	Microphone stand (Table stand)	1				ADB
TMP&L	Slide Projector	1	DP-1000II			ADB
TMP&L	Overhead Projector	3	3M9100			ADB
TMP&L	Screen	3	1.8m			ADB

Department	Description	Q'ty	Brand/Model etc.	Situation		Remarks
				Work'g	Broken	
TMP&L	Computer Scanner	1	HP scan Jet 5100C			ADB
TMP&L	Video Camera	1	Panasonic M9000			ADB
TMP&L	Camera	1	NIKON w/38-105mm			ADB
TMP&L	Proxima Desktop Projector	1	XV-348P			ADB
TMP&L	Communication System		PABX Panasonic 680X			
TMP&L	Main Phone	1	KX-T7030			ADB
TMP&L	Extension Phone	16	Extension Phone			ADB
TMP&L	FAX	1	KX-T780BX			ADB
TMP&L	FAX Modem for E-mail	1				ADB
Midwife	Delivery Table	1				
Midwife	Pregnant Uterus Model	4				
Midwife	Dummy for Midwifery	2				
Midwife	Dummy for baby care	6				
Midwife	Irrigator Stand	1				
Midwife	Baby scale (Height&Weight Scale)	1				
Midwife	Ambu bag	3				
Physiotherapy	Treatment Table	13				
Physiotherapy	Wheel Chair	3				
Physiotherapy	Human Skeleton	1				
Physiotherapy	Parallel Bars	1				
Physiotherapy	Mirror	1				
Physiotherapy	Ball for treatment (Large)	1				
Physiotherapy	Ball for treatment (Small)	1				
Physiotherapy	Negatoscope	1				in staff room
Physiotherapy	OHP	2				
Physiotherapy	Photocopy Machine	1	SHARP SF1020			not in good condition
Physiotherapy	Printer	1	HP DeskJet 520			
Physiotherapy	Computer	1	Fujitec			FD only
Physiotherapy	Printer	1	Laser 1000series			
Physiotherapy	Computer	1				USB, Windows 2001

Planned Equipment

Item No.	Location	Description	Q'ty
N- 1	Nursing/Midwifery	Anatomical human body	1
N- 2	Nursing/Midwifery	Human skeleton	1
N- 4	Nursing/Midwifery	Phantom for delivery	1
N- 5	Nursing/Midwifery	Breast cancer simulator	1
N- 6	Nursing/Midwifery	Injection simulator	8
N- 7	Nursing/Midwifery	Infant height&weight scale	2
N- 10	Nursing/Midwifery	Desk	**
N- 11	Nursing/Midwifery	Chair	**
P- 28	Physiotherapy	Wheel chair	2
P- 29	Physiotherapy	Skeleton model	1
P- 30	Physiotherapy	Joint phantom model	1
P- 31	Physiotherapy	Desk	**
P- 32	Physiotherapy	Chair	**
C- 12	Lab Technology	Electronic analytical balance	1
C- 13	Lab Technology	Haematocrit centrifuge	2
C- 14	Lab Technology	Binocular microscope	15
C- 14a	Lab Technology	Teaching microscope	2
C- 32	Lab Technology	Deep Freezer	1
C- 50a	Lab Technology	Desk	**
C- 50b	Lab Technology	Chair	**
X- 1	X-Ray Technology	General X-ray unit	1
X- 2	X-Ray Technology	Mobile X-ray apparatus	1
X- 6	X-Ray Technology	Automatic film processor	1
X- 7	X-Ray Technology	Manual film processor	2
X- 8	X-Ray Technology	X-ray film dryer	1
X- 9-1	X-Ray Technology	Cassette set	4
X- 9-1a	X-Ray Technology	Screen set	8
X- 10-1	X-Ray Technology	X-ray film hanger	4
X- 10-5	X-Ray Technology	X-ray film hanger	4
X- 11	X-Ray Technology	Liquid thermometer	4
X- 12	X-Ray Technology	Dark room timer	2
X- 19	X-Ray Technology	Film mark set	5
X- 20	X-Ray Technology	Negatoscope, portable	2
X- 21	X-Ray Technology	Negatoscope, desk top	2
X- 22	X-Ray Technology	X-ray Protective Apron	3
X- 23	X-Ray Technology	X-ray protective floor screen	3
X- 25	X-Ray Technology	Ultrasound scanner	1
X- 27	X-Ray Technology	Examination bed	1
X- 32	X-Ray Technology	Cranial phantom (bone equiv)	1
X- 33	X-Ray Technology	Joint phantom set (bone equiv)	1
X- 36	X-Ray Technology	Resolution test chart	1
X- 37	X-Ray Technology	Acryl phantom	1
X- 41	X-Ray Technology	Desk	**
X- 28	X-Ray Technology	Chair	**

Item No.	Location	Description	Q'ty
L- 5	Teach'g Material Prod	LCD projector	4
L- 9	Teach'g Material Prod	CCD video camera	4
L- 12	Teach'g Material Prod	Digital camera	4
O- 2	Teach'g Material Prod	Computer	2
L- 13	Teach'g Material Prod	Printer for computer	2
L- 15	Teach'g Material Prod	Scanner	4
L- 16	Teach'g Material Prod	Visual presenter	4
L- 11	Teach'g Material Prod	Desk	**
L- 11a	Teach'g Material Prod	Chair	**

** : To be included

Rough Specifications of Planned Equipment

Item No.	Location	Description	Rough Spec
N- 1	Nursing/Midwifery	Anatomical human body	Height:Approx 100cm, Div:approx 30
N- 2	Nursing/Midwifery	Human skeleton	Full size w/stand and casters
N- 4	Nursing/Midwifery	Phantom for delivery	w/ baby manikin
N- 5	Nursing/Midwifery	Breast cancer simulator	Wearable
N- 6	Nursing/Midwifery	Injection simulator	Intra-muscular, Wearable on upper arm and hip
N- 7	Nursing/Midwifery	Infant height&weight scale	Height:approx 100cm, Weight:approx 10kg
N- 10	Nursing/Midwifery	Desk	For two persons and others
N- 11	Nursing/Midwifery	Chair	Steel frame w/plastic base&backrest, and others
P- 28	Physiotherapy	Wheel chair	Folding type
P- 29	Physiotherapy	Skeleton model	Full size
P- 30	Physiotherapy	Joint phantom model	Elbow, Knee, Ankle, Wrist, Shoulder, Thigh
P- 31	Physiotherapy	Desk	For two persons and others
P- 32	Physiotherapy	Chair	Steel frame w/plastic base&backrest, and others
C- 12	Lab Technology	Electronic analytical balance	Approx 220g, Approx 100x100mm
C- 13	Lab Technology	Haematocrit centrifuge	Approx 12000rpm max, 30 tubes, Digital disp
C- 14	Lab Technology	Binocular microscope	10x eyepiece, 10x 40x 100x plan
C- 14a	Lab Technology	Teaching microscope	10x eyepiece, 10x 40x 100x plan, Face-to-Face
C- 32	Lab Technology	Deep Freezer	Appox 140L, -20 to -35 degrees
C- 50a	Lab Technology	Desk	For two persons and others
C- 50b	Lab Technology	Chair	Steel frame w/plastic base&backrest, and others
X- 1	X-Ray Technology	General X-ray unit	Inverter generator, Bucky table&chest stand
X- 2	X-Ray Technology	Mobile X-ray apparatus	Inverter generator, 100kV/35mA max
X- 6	X-Ray Technology	Automatic film processor	18x24cm to 35x43cm
X- 7	X-Ray Technology	Manual film processor	Approx 18L develop&fix tank, Water tank
X- 8	X-Ray Technology	X-ray film dryer	Stainless steel, Up to 35x43cm
X- 9-1	X-Ray Technology	Cassette set	18x24cm to 35x43cm, 5 sizes
X- 9-1a	X-Ray Technology	Screen set	18x24cm to 35x43cm, 5 sizes
X- 10-1	X-Ray Technology	X-ray film hanger	18x24cm, 35x35cm
X- 10-5	X-Ray Technology	X-ray film hanger	30x40cm, 24x30cm
X- 11	X-Ray Technology	Liquid thermometer	Up to 50 degrees, Cylindrical type
X- 12	X-Ray Technology	Dark room timer	1 to 60 min, w/alarm
X- 19	X-Ray Technology	Film mark set	Alphabet&Numerals for name, rt/lt
X- 20	X-Ray Technology	Negatoscope, portable	35x43cm x 4 films, w/casters
X- 21	X-Ray Technology	Negatoscope, desk top	35x43cm x 4 films
X- 22	X-Ray Technology	X-ray Protective Apron	0.25mmPb, 0.35mmPb, L/M size
X- 23	X-Ray Technology	X-ray protective floor screen	Lead glass viewport&lead acrylic
X- 25	X-Ray Technology	Ultrasound scanner	Portable B/W monitor, Convex&linear probes
X- 27	X-Ray Technology	Examination bed	Approx 1900x650x620mm
X- 32	X-Ray Technology	Cranial phantom (bone equiv)	Skull phantom for radiography
X- 33	X-Ray Technology	Joint phantom set (bone equiv)	Elbow, Knee, Hand&Foot joints for radiogr'y
X- 36	X-Ray Technology	Resolution test chart	High contrast resolution test chart
X- 37	X-Ray Technology	Acryl phantom	Acryl plate phantom for absoption test
X- 41	X-Ray Technology	Desk	For two persons and others
X- 28	X-Ray Technology	Chair	Steel frame w/plastic base&backrest, and others

Item No.	Location	Description	Rough Spec
L- 5	Teach'g Material Prod	LCD projector	1600 ANSI lumen or more, SVGA or higher
L- 9	Teach'g Material Prod	CCD video camera	600 K pixels
L- 12	Teach'g Material Prod	Digital camera	CCD camera, 3.2 M pixels or more,
O- 2	Teach'g Material Prod	Computer	Desktop, Pen IV or higher, 80GB HDD, MOD
L- 13	Teach'g Material Prod	Printer for computer	Ink jet/Laser types, color, 2400dpi or higher, A4 max
L- 15	Teach'g Material Prod	Scanner	2400x2400dpi or better, A4 max, USB2.0
L- 16	Teach'g Material Prod	Visual presenter	CCD camera, 400K pixels or more
L- 11	Teach'g Material Prod	Desk	For two persons and others
L- 11a	Teach'g Material Prod	Chair	Steel frame w/plastic base&backrest, and others

Post-basic Education Courses and Programs

< List of Courses and Programs >

Bldg.	Course / Program	Classification	Education Period
Main Building	Nurse Anesthetist	Diploma	2 years
	Operating Theatre Nurse	Certificate	3 months
	Mental Health Nurse	Certificate	8 months
Seminar House	MPA 1: Opening a Health Center	Certificate	Assumed to complete MPA 1 ~ MPA 5 in 15 weeks.
	MPA 2: Patient Assessment	Certificate	(ditto)
	MPA 3: Child Health/IMCI	Certificate	(ditto)
	MPA 4: Adult Common Diseases	Certificate	(ditto)
	MPA 5: Chronic Diseases	Certificate	(ditto)
	MPA 6: Basic Infection Control	Certificate	Assumed to complete MPA 6 ~ MPA 10 in 15 weeks.
	MPA 7: Health Promotion/Health Education	Certificate	(ditto)
	MPA 8: Health Center Management	Certificate	(ditto)
	MPA 9: Expanded Programme of Immunisation	Certificate	(ditto)
	MPA 10: General Nutrition & Growth Monitoring	Certificate	(ditto)
	MPA 11: Delivery	Certificate	Assumed to complete MPA 11 ~ MPA 13 in 15 weeks.
	MPA 12: ANC/PNC	Certificate	(ditto)
	MPA 13: Emergency & Minor Surgery	Certificate	(ditto)
	MCH Course	Certificate	4 months
Chief Nurse Training	Certificate	4 months	

< Proposed Schedule for Post-basic Education at Seminar House >

ROOM NAME	WEEK	YEAR																																																					
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52		
Seminar Room (1) (20)		1st Group Start																				2nd Group Start															3rd Group Start																		
MPA 1		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█		
MPA 2		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█		
MPA 3		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█		
MPA 4		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█		
MPA 5		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█		
Seminar Room (2) (20)		3rd Group Start (next year)															1st Group Start															2nd Group Start																							
MPA 6		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 7		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 8		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 9		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 10		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
Seminar Room (3) (20)		2nd Group Start (next year)															3rd Group Start															1st Group Start																							
MPA 11		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 12		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
MPA 13		█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█			█					
Training Room (60)		█																																																					
Chief Nurse Group (1)		█																				1st Group Complete												█																					
Chief Nurse Group (2)		█																				█												2nd Group Complete																					
Training of Trainers (1)		█					TSMC Teaching Staff										█															TSMC Teaching Staff										█													
Training of Trainers (2)		█					█										Local Lab. Technician															█																							
Evaluation of TOT		█					█										Local Lab. Technician															█																							
Others		█																																																					

Notes: As for the MPA Seminar, it is assumed that each package i.e. MPA 1 ~ 5, MPA 6 ~ 10 and MPA 11 ~ 13 would take 15 weeks to complete.

Seminar period for Chief Nurse Course is four (4) months and it is expected that 120 nurses would become chief nurse annually.

Although MPA seminar should be followed by CPA seminar, no detailed information received from MOH.

Proposed schedule for others indicated on Training Room is for post-basic education to be proposed for laboratory technicians, X-ray technicians, etc.