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APPENDICES

Appendix A

Data and Results for THC

Table A1: Space for Administration under Family Planning Department of THC 1998.

Space for administration & supervision	Area Sq.ft)	% of total hospital area
MO (MCH-FP)'s office room	240.00	
TFPO's office room	240.00	
ATFPO & SrFWV's office room	106.25	
Accountant's room	247.50	
Store	240.25	
Total space for administration & supervision	1,074.00	6.46 %
Reallocation of administration & supervision space to each service center (1,074/4).	268.50	1.62%

- Notes:
1. Total hospital area is 16,617 square feet (Sq.ft)
 2. At THC total number of patient visits were 7,581 and total number of pregnant women were 381 who got antenatal visits were 901 under MCH program in 1998.
 3. Space for each service center was $1,074 \text{ sq.ft} / 4 = 268.5 \text{ sq.ft}$, thus it was $(268.5 / 16,617) * 100 = 1.62\%$ of total hospital building area.
 4. Space of administration to antenatal care was $(268.5 \text{ sq.ft} / 7,581) * 901 = 31.91 \text{ sq.ft}$

Source: Information in column 2 from health record and observation. _

Table A.2: Space for Patient Service under MCH-FP Program at THC in 1998.

Space for patient's service at THC	Total space (Sq.ft)	% of total hospital area
Patient's service room included waiting space	400.00	2.41 %
Reallocation of space for antenatal service	47.54	0.29 %

Notes:

1. Service space for antenatal patient was $(400\text{sq.ft}/7,581)*901 = 47.54 \text{ sq.ft}$ (on the basis of total visits).
2. Thus it was $(47.54/16,617)*100 = 0.29 \%$ of total hospital area.

Table A.3: Reallocation of Space of Capital Cost Item of Building for Antenatal Care at THC in 1998.

Space for antenatal care	Total spaces (sq.ft)	% of total hospital area
Space for administration at THC	31.91	0.19 %
Space for patient service at THC	47.54	0.29 %

Notes:

1. Space of administration to antenatal care was $(268.5 \text{ sq.ft}/7,581)*901 = 31.91 \text{ sq.ft}$
2. Space of administration for antenatal service was 31.91 sq.ft , thus it was $(31.91/16,617)*100 = 0.19\%$ of total hospital area.
3. Service space for antenatal patient was $(400\text{sq.ft}/7,581)*901 = 47.54 \text{ sq.ft}$, so it as $(47.54/16,617)*100 = 0.29 \%$ of total hospital area.

Table A.4: Average Annual Capital Cost of Capital Cost Items of THC Related to Antenatal Service in 1998.

Capital cost items	Life time	Construction/ Buying year	Construction Cost (Taka)	Interest rate	Value at 1998 price (Taka)	Average annual cost at 1998 price (Taka)
THC building	30	1978	5,349,270.00	14 %	73,517,638.06	2,450,587.94
Weight & height scale	5	1996	-	14 %	995.57	290.00

Notes:

1. Column 6 for H&FWC = Column 4*(1+Column 5)²⁰
2. Column 6 for Weight & height scale, market price was used in 1998. So by using annualization factors for 5 years life time it was $(995.57/3.433) = \text{Tk } 290.00$
3. Column 7 = Column 6/Column 2 (for building)

Sources: Information in columns 2, 3 and 4 for building are from Construction Management and Maintenance Unit, Boria, Khulna

Table A.5: Reallocation of Annual Capital Cost of Building for ANC to Administration Department and Patient Service Department under MCH-FP Program at THC in 1998.

Department	Reallocation basis (% of total Sq.ft)	Building cost for antenatal service (Taka)
Administration	0.19 %	4,656.12
Patient service	0.29 %	7,106.71
Total	0.48 %	11,762.83

Notes:

1. Information in Column 2 is from Table A.3
2. Column 3 = Column 2* 2,450,587.94 (Information from Table A.4)

Table A.6: Allocation of Annual Capital Cost of Capital Cost Item of Equipment to Antenatal Care at THC in 1998.

Capital cost item	Total annual cost to antenatal care (Taka)
Weight and height scale	290.00

Note:

Column 2, is from Table A.4

Table A.7: Summary of Capital Costs of Capital Cost Items at THC for ANCare in 1998.

Cost items	Total cost for antenatal care
Building cost for patient service	7,106.71
Capital cost of administration	4,656.12
Weight and height scale	290.00
Total	12,052.83

Note:

Column 2 is from Table A.5 and Table A.6

Table A.8: Annual Recurrent Cost of Salary of Administration, Supervision and Patient Service Includes ANC under MCH-FP Program at Thana Health Complex in 1998.

Salary (Administration & Patient Service)	Basic salary/ month at 1998 (Tk)	Salary/ month at 1998 (Tk)	Salary/year (Tk)	Bonus/year (Tk)	Travel cost/year (Tk)	Total salary/year (Tk)
MO (MCH)(Admi & Patient service)	4,431.00	6,403.00	76,836.00	6,950.00	6,430.00	90,216.00
TFPO (Administration)	4,386.25	6,340.75	76,089.00	6,960.00	14,411.00	97,460.00
ATFPO (Supervision)	3,480.00	4,510.00	54,120.00	6,890.00	2,916.40	63,926.40
SrFWV (Supervision)	4,391.42	6,347.98	76,175.80	7,210.00	2,349.60	85,735.40
Accountant	3,460.92	3,551.38	42,616.50	6,810.00	3,983.00	53,409.50
Store keeper	4,080.45	4,510.00	65,639.00	6,890.00	2,127.00	63,137.00
FWV (Patient Service)	5,045.00	7,263.00	87,156.00	8,460.00	1,180.00	96,796.00
Ayia (Patient Service)	2,139.75	3,551.00	42,612.00	4,020.00	215.00	46,847.00

Note: Column 7 = Columns (4+5+6)

Source: Information from hospital record.

Table A.9: Recurrent Cost of Salary of Administration for ANC at Thana Health Complex in 1998.

Salary (Administration/ supervision)	Total salary/yr (Taka)	Total working hours/yr	Average salary/yr/hr (Taka)	% of time spent for administration/ supervision	Total time spent for admin/ supervision/yr (hr)	Time spent for antenatal service/yr (hr)	Total cost for Administration/ supervision (Tk)
MO (MCH-FP)	90,216.00	1960	46.03	15 %	294	34.93	1,607.83
TFPO	97,460.00	1960	49.72	10 %	196	23.28	1,157.48
ATFPO	63,926.40	1960	32.62	5 %	98	11.64	379.69
SrFWV	85,735.40	1960	43.74	10 %	196	23.28	1,018.27
Accountant	53,409.50	1960	27.25	10 %	196	23.28	634.38
Storekeeper	63,137.00	1960	32.21	10 %	196	23.28	749.85
Total cost of Administration and Supervision for antenatal care							5,547.51

Notes:

1. Column 3 = 245 * 8; 245 working days were in 1998 and 8 hours work/day.
2. Column 4 = Column 2/Column 3.
3. Column 5 = % of time which spent for only administration and supervision to each health center.
4. Column 6 = (Column 5* Column 3)/100.
5. Column 7 = (Column 6*11.88)/100 (11.88% of antenatal care provided of all patient services at THC)
6. Column 8 = Column 4*Column 7

Table A.10: Annual Recurrent Cost of Salary of Health Personnel Related to ANC for Thana Health Complex Service Center.

Salary Patient service	Total salary/yr (Taka)	Total working hour/yr	Average salary/hr/yr	Number of antenatal visits consulted	Time spent for antenatal/visit (minutes)	Total time spent for antenatal/visit (hr)	Total cost for antenatal service (Taka)
MO(MCH-FP)	90,216.00	1960	46.03	39	15	9.75	448.79
FWV	96,796.00	1960	49.39	901	20	300.33	14,833.30
AYIA	46,847.00	1960	23.90	901	5	75.08	1,794.41
Total cost of salary of health personal for antenatal care							17,076.50

Notes:

1. Column 2 showed in Table A.8 at Column 7.
2. Column 3 = 245*8; 245 working days in 1998 and 8 hours work/day.
3. Column 4 = Column2/ Column 3
4. Column 5 = number of visits performed by health personnel
5. Column 7 = Column 5* Column 6/60 (60 minutes = 1 hour).
6. Column 8 = Column 4* Column 7

Table A.11 Annual Recurrent Cost of Drug for Antenatal Service at THC in 1998.

Cost items	Total number of drug	Rate/pieces (Taka)	Total cost for Antenatal care (Taka)
Iron tab.	49,278	0.06	2,956.68
Tab. Antacid	1,137	0.24	272.88
Total drug cost			3,229.56

Notes:

1. Drug price was collected from "Antenatal & Postnatal Check-up register " provided by MCH services, Family Planning Directorate. Dhaka, Bangladesh.
2. Total number of drugs was calculated from antenatal check-up register and used only for 381 pregnant women at THC.
3. Column 4 = Column 2* Column 3

Table A.12: Annual Recurrent Cost of Equipment for Antenatal Service at THC in 1998.

Cost items	Total Number	Rate/pieces (Taka)	Total cost (Taka)	Cost for antenatal service (Taka)
B.P machine with statheiscope	1	792.00	792.00	94.09
Tape	1	20.00	20.00	20.00
Antenatal card	381	1.00	381.00	381.00
Uristics	1,000	1.50	1,500.00	1,500.00
Antenatal check-up register	2	120.00	240.00	240.00
Total cost equipment for antenatal service				2,235.09

Notes:

1. Total patients were done = 7,581 visits
2. Antenatal visits were = 901,
3. Antenatal care was $(901/7,581)*100 = 11.88 \%$ of total patient visits were served at THC in 1998.
4. Column 4 = column 2* column 3

*The Cost of B.P machine was allocated to antenatal care $(901/7,581)*100 = 11.88 \%$ of total cost
(On the basis of utilization rate) i.e $792.00/100*11.88 = \text{Tk. } 94.09$.

Table A.13: Allocation of Annual Recurrent Cost of Maintenance and Stationary
Cost to Antenatal Service at THC.

Cost items	Total cost for patient service (Taka)	Cost for antenatal service (Taka)
Stationary	3,600.00	427.68
Electricity bill	9,680.00	1,149.99
Total maintenance cost for antenatal care		1,577.67

Notes:

1. Information column 2 from health record.
2. Column 3 = Column 2 * 11.88 % (on the basis of total number of patients)

Table A.14: Total Cost for Antenatal Patient at THC in 1998

Cost item	Total cost/year (Tk)	% of total cost
Capital cost	12,052.83	28.89
Salary (Administration)	5,547.51	13.30
Salary (Patient service)	17,076.50	40.93
Material cost (drug & equipment)	5,464.65	13.10
Maintenance cost	1,577.66	3.78
Total	41,719.15	100.00

Notes:

1. Information in column 2 is from Tables A.7, A.9, A.10, A.11, A.12, A.13
2. Column 3 = Column 2/41,719.15*100

Table A.15: Effectiveness of Antenatal Care at THC in 1998.

Activity	Output	Target	Effectiveness
Pregnant women coverage	381	480	79.38 %
At least 3 antenatal visits	162	381	42.52 %
Normal delivery	338	362	93.37 %

Notes:

1. Total number of pregnant women were 381 who were received 901 antenatal visits.
2. They received average $901/381 = 2.36$ visits
3. Column 3 = Pregnant women coverage/year is 480 for each service center, at least 3 antenatal visits have to provide for all pregnant women and in this case it was for 381 mothers and the target of normal delivery was 95 % of total pregnant women i.e the number of $(381/100*95) = 338$ deliveries under MCH-FP program (GOB).
4. Column 4 = $\text{Output}/\text{target} * 100$.

Appendix B

Data and Results for H&FWC

Table B.1: Space of Administration under Family Planning Department of H&FWC in 1998.

Space for administration & supervision	Area (Sq.ft)	% of total hospital area
MO(MCH-FP)'s office room	240	
TFPO's office room	240	
ATFPO & SrFWV's office room	106.25	
Accountant's room	247.50	
Store	240.25	
Total space for administration & supervision	1,074	6.46 %
Reallocation of administration & supervision space to each service center (1,074/4).	268.5	1.62%

Notes:

1. Total hospital area is 16,617 square feet (Sq.ft)
2. At H&FWC total number of patient visits were 17,320 included 1,345 antenatal visits in 1998.
3. In this study administration department managed and controlled 4 service centers.
4. Space of administration to each service center was $1074 \text{ sq.ft}/4 = 268.5 \text{ sq.ft}$, thus it was $(268.5/16617)*100 = 1.62\%$ of total hospital building area.

Table B.2: Reallocation of Administration Space of Building at THC to Antenatal Care in H&FWC in 1998.

Cost item	Total space (sq.ft)	Space for ANC (sq.ft)	% of total hospital area
Administration space of building to H&FWC	268.5	20.85	0.13 %

Notes: 1. Information in column 2 from Table B.1

2. Column 3 = $(268.5/17,320) * 1,345$ (on the basis of total number of patient visits)

3. Column 4 = $(20.85/16,617) * 100$ (% share with the hospital area).

Table B.3: Specification of the Health & Family Welfare Center Building

Space for patient service	Area (Sq.ft)
Space for Medical Officer's (FW) room	280
Space for FWV's office room	234
Space for store room	265
Space for waiting room	428
Total space of the service center	1,207 Sq.ft

Note: This space was used only for patient services.

Table B.4: Average Annual Cost of Capital Cost Items of THC and H&FWC Related to ANC in 1998.

Capital items	Life time	Construction/ Buying year	Construction cost (Taka)	Interest rate	Value at 1998 price (Taka)	Average annual cost at 1998 price (Taka)
THC building	30	1978	5,349,270.00	14 %	73,517,638.06	2,450,587.94
H & FWC building	30	1985	603,500.00	14 %	3,314,670.34	110,489.01
Weight & height scale	5	1996	-		995.57	290.00

Notes:

1. Column 6 for building of THC = Column 4*(1+Column 5)²⁰
2. Column 6 for building of H&FWC = Column 4*(1+Column 5)¹³
3. Column 6 for Weight & height scale, market price was used in 1998. So by using annualization factors it was (995.57/3.433) = Tk 290.00
4. Column 7 = Column 6/Column2 (for building)

Table B.5: The Annual Capital Cost of Administration of Building (THC) for Antenatal Care in H&FWC in 1998.

Cost item	% of total building area	Cost for antenatal care (Taka)
Cost of administration of building	0.13 %	3,185.76

Notes:

1. Information in column 2 is from Table B.2
2. Column 3 = $2,450,587.94/100*0.13$ % (from Table B.4)

Table B.6: Allocation of Annual Capital Cost of Building to ANC at H&FWC in 1998.

Department	Allocation basis (% of total sq.ft)	Building cost for antenatal care at H&FWC in 1998
Building cost	7.77%	8,585.00

Notes:

1. Total patient were done visits at H&FWC = 17,320
2. Antenatal visits were = 1,345
3. Antenatal patients was $(1,345/17,320)*100 = 7.77\%$ of total patients who were served at H&FWC in 1998.
4. So antenatal patients used 7.77 % of total building area.
5. Column 3 = Tk $(7.77/100)*110,489.01$ (from Table B.4)

Table B.7: Allocation of Annual Cost of Capital Cost Item of Weight & Height Scale to ANC at H&FWC in 1998.

Capital cost item	Total annual cost to antenatal care (Taka)
Weight and height scale	290.00

Note:

Column 2, from Table B.4

Table B.8: Summary of Capital Costs at H&FWC for ANC in 1998.

Cost items	Total cost for antenatal care (Taka)
Building cost	8,585.00
Capital cost of administration	3,185.76
Weight and height scale	290.00
Total	12,060.76

Note:

Column 2 is from Tables B.4, B.5 and B.6

Table B.9: Annual Recurrent Cost of Salary of Administration, Supervision and Patient Service Includes ANC under MCH-FP Program at Thana Health Complex in 1998.

Salary (Administration & Patient Service)	Basic salary/ month at 1998 (Tk)	Salary/Month in 1998 (Tk)	Salary/year (Tk)	Bonus/year (Tk)	Travel cost/year (Tk)	Total salary/year (Tk)
MO(MCH-FP) (Admin & Patient Service)	4,431.00	6,403.00	76,836.00	6,950.00	6,430.00	90,216.00
TFPO(Administration)	4,386.25	6,340.75	76,089.00	6,960.00	14,411.00	97,460.00
ATFPO(supervision)	3,480.00	4,510.00	54,120.00	6,890.00	2,916.40	63,926.40
SrFWV(supervision)	4,391.42	6,347.98	76,175.80	7,210.00	2,349.60	85,735.40
Accountant	3,460.92	3,551.38	42,616.50	6,810.00	3,983.00	53,409.50
Store keeper	4,080.45	4,510.00	54,120.00	6,890.00	2,127.00	63,137.00
Total						

Note:

Column 7 = Columns (4+5+6)

Table B.10: Annual Recurrent Cost of Salary of Administration for ANC to H&FWC in 1998.

Salary (Administration /supervision)	Total salary/yr (Tk)	Total working hour/yr	Average salary/yr/hr (Tk)	% of time spent for admin/sup- ervision	Total time spent for admin/ yr (hr)	Time for ANC service/yr (hr)	Total cost for admin/ Supervision (Tk)
MO(MCH-FP)	90,216.00	1960	46.03	15 %	294	22.84	1,051.33
TFPO	97,460.00	1960	49.72	10 %	196	15.23	757.24
ATFPO	63,926.40	1960	32.62	5 %	98	7.61	248.24
SrFWV	85,735.40	1960	43.74	10 %	196	15.23	666.16
Accountant	53,409.50	1960	27.25	10 %	196	15.23	415.02
Storekeeper	63,137.00	1960	32.21	10 %	196	15.23	490.56
Total cost of Administration and supervision for antenatal care							3,628.55

Notes:

1. Column 3 = 245 * 8; 245 working days were in 1998 and 8 hours work/day.
2. Column 4 = Column 2/Column 3.
3. Column 5 = % of time which spent for only administration and supervision.
4. Column 6 = (Column 5* Column 3)/100.
5. Column 7 = (Column 6*7.77)/100 (7.77% of antenatal care provided of all patient services at H&FWC).
6. Column 8 = Column 4*Column 7

Table B.11: Annual Recurrent Cost of Salary of Patient Service Includes Antenatal Care under MCH-FP Program at H&FWC in 1998.

Salary of Patient Service	Basic salary/month at 1998 (Tk)	Salary/month at 1998 (Tk)	Salary/yr (Tk)	Bonus/yr (Tk)	Travel cost/year (Tk)	Total salary/year (Tk)
MO (FW)	4,735.00	6,650.00	87,880.00	8,080.00	5,267.00	93,147.00
FWV	3,735.00	5,765.00	69,180.00	5,970.00	1,921.00	77,071.00
Ayia	2,139.75	3,551.00	42,612.00	4,020.00	464.00	47,096.00
Security guard	2,139.75	2,720.50	32,646.00	2,780.00	382.00	35,808.00

Note:

Column 7 = Columns (4+5+6)

Table B.12: Allocation of Annual Recurrent Cost of Salary of Health Personnel to ANC at H&FWC in 1998.

Salary Patient service	Total salary/yr (Tk)	Total working hour/yr	Average salary/hr/yr (Tk)	Number of ANC visits Consulted	Time spent for ANC/visit (minutes)	Total time spent for ANC/visit (hr)	Proportion of salary for ANC	Cost/yr for ANC	Total cost For ANC (Tk)
MO(FW)	93,147.00	1960	47.52	58	15	14.50	-	-	689.04
FWV	77,071.00	1960	39.32	1,345	20	448.33	-	-	17,628.34
AYIA	47,096.00	1960	24.03	1,345	5	112.08	-	-	2,693.28
Security guard	35,808.00	1960	18.27	-	-	-	7.77 %	2,782.28	2,782.28
Total cost of salary of health personnel for antenatal service									23,792.94

Notes:

1. Column 2 from Table B.11
2. Column 4 = Column 2/column 3
3. Column 7 = Column 5*column 6/60
4. Security Guard's salary 7.77 % for ANC and rest for other services, because of 7.77 % of antenatal care provided of all patient services at H&FWC.

Table B.13: Annual Recurrent Cost of Drug for ANC at H&FWC in 1998.

Cost items	Total number of drug	Rate/pieces (Taka)	Total cost for antenatal service (Taka)
Iron Tab.	42,220	0.06	2,533.20
Tab. Antacid	128	0.24	30.72
Tab. Becomplex	2,128	0.07	148.96
Tab. Paracetamol	28	0.24	6.72
Tab. Hyocin	18	0.64	11.52
Total drug cost			2,731.12

Notes:

1. Total number of drugs was calculated from antenatal check-up register and used 424 pregnant women at H&FWC.
2. Column 4 = column 2*column3

Table B.14: Annual Recurrent Cost of Equipment for ANC at H&FWC in 1998.

Cost items	Total number	Rate/pieces (Taka)	Total cost (Taka)	Cost for antenatal care (Taka)
B.P machine with Statheiscope	1	792.00	792.00	61.54
Tape	1	20.00	20.00	20.00
Antenatal card	424	1.00	424.00	424.00
Uristics	1,400	1.50	2,100.00	2,100.00
Antenatal Register	3	80.00	240.00	240.00
Total cost of equipment for antenatal care				2,845.54

Note:

B.P machine used for antenatal care (1,345/17,320)*100 = 7.77 % of total patient visits

Table B.15: Allocation of Annual Recurrent Cost of Maintenance and Stationary Cost to Antenatal Service at H&FWC.

Cost items	Total cost for patient service (Taka)	Cost for antenatal service (Taka)
Stationary	2,400.00	186.48
Electricity bill	5,296.00	411.50
Total maintenance cost for antenatal care		597.98

Note:

Column 3 = Column 2 *7.77 % (on the basis of total number of patients)

Table: B.16 Total Cost for Antenatal Patient at H&FWC in 1998

Cost item	Total cost/year (Tk)	% of total cost
Capital cost	12,060.76	26.42
Salary (Administration)	3,628.55	7.95
Salary (Patient service)	23,792.94	52.11
Material cost (drug & equipment)	5,576.66	12.21
Maintenance cost	597.98	1.31
Total	45,656.89	100

Notes:

1. Column 2 is from Tables B.8, B.10, B.12, B.13, B.14 and B.15
2. Column 3 = Column 1 / 45,565.78*100

Table: B.17 Effectiveness at H&FWC for Providing Antenatal Care in 1998.

Activity	Output	Target	Effectiveness
Pregnant women coverage	424	480	88.33 %
At least 3 antenatal visits	295	424	69.52 %
Normal delivery	399	403	94.10 %

Notes:

1. Total number of pregnant women were 424 who were received 1,345 antenatal visits.
2. They received average $1,345/424 = 3.17$ visits/mother
3. Column 3 = Pregnant women coverage/year is 480 for each service center, at least 3 antenatal visits have to provide for all pregnant women and in this case it was for 424 mothers and the target of normal delivery was 95 % of total pregnant women i.e $(424/100*95) = 399$ deliveries under MCH-FPPF program (GOB).
4. Column 4 = $Output/target*100$.

