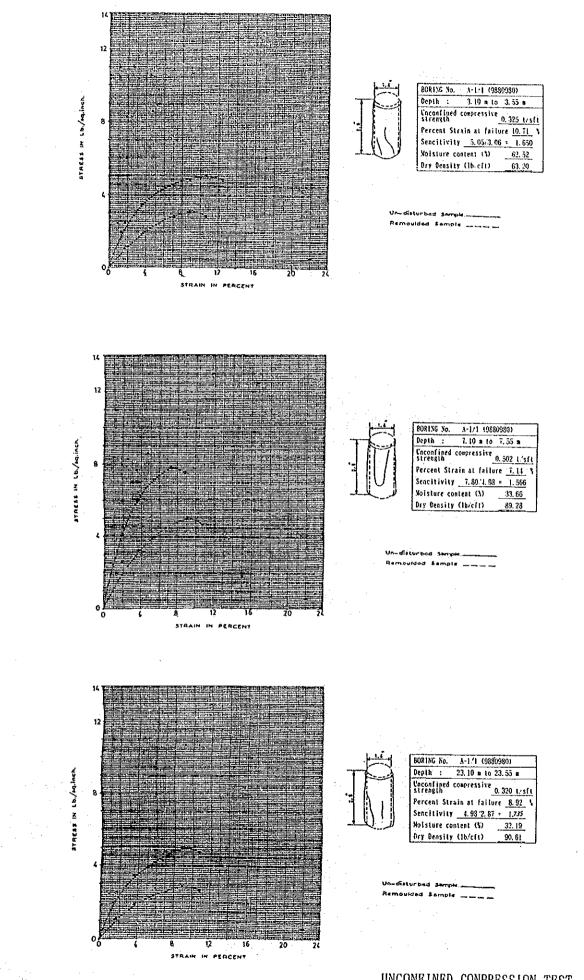
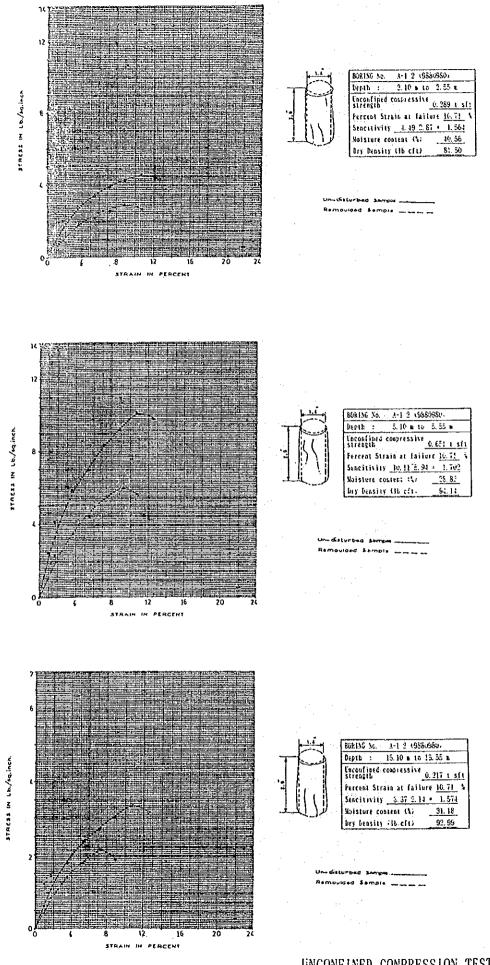
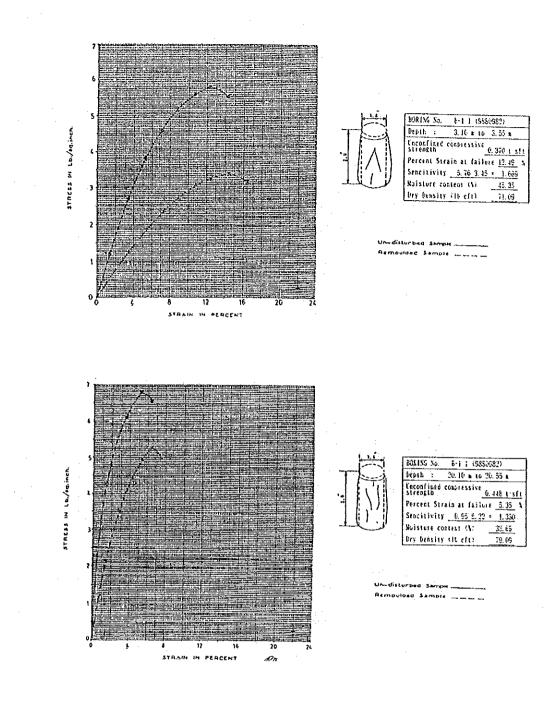
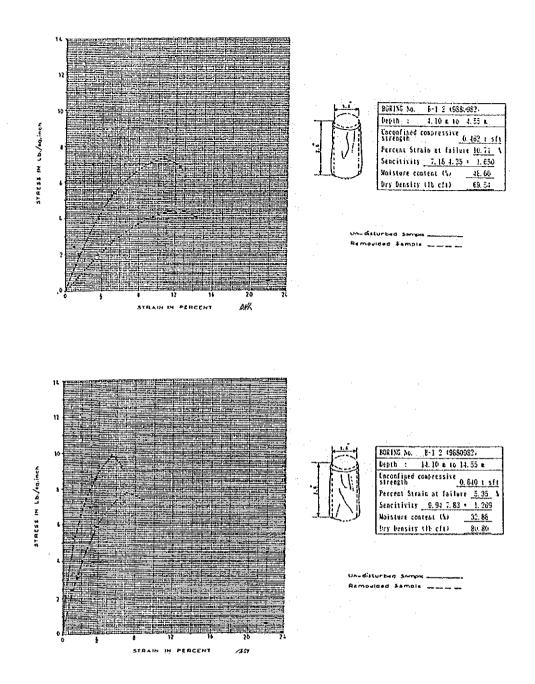
## APPENDIX 2.5 UNCONFINED COMPRESSION TEST

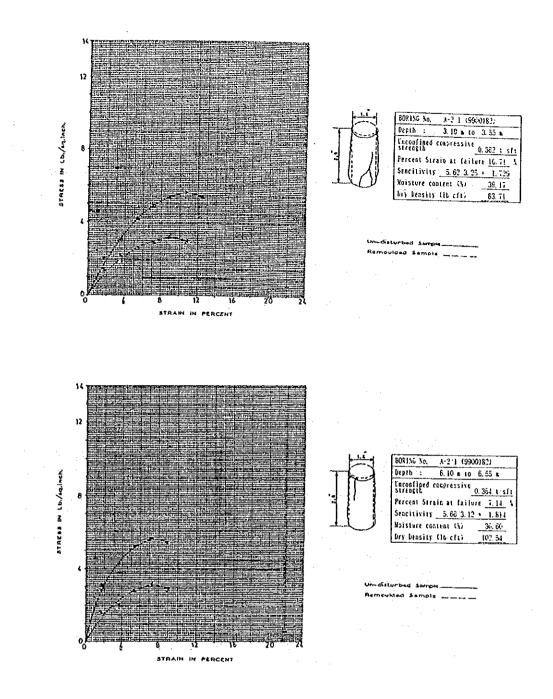
5

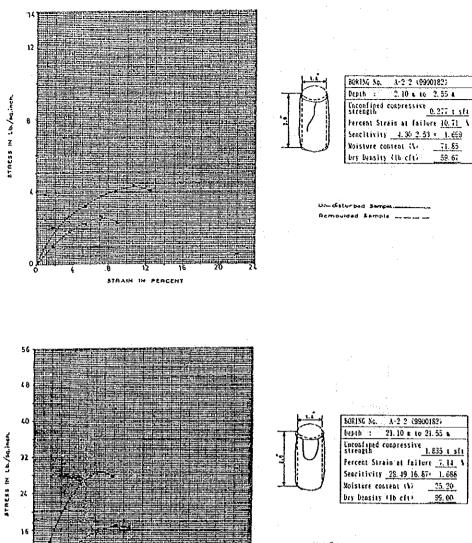








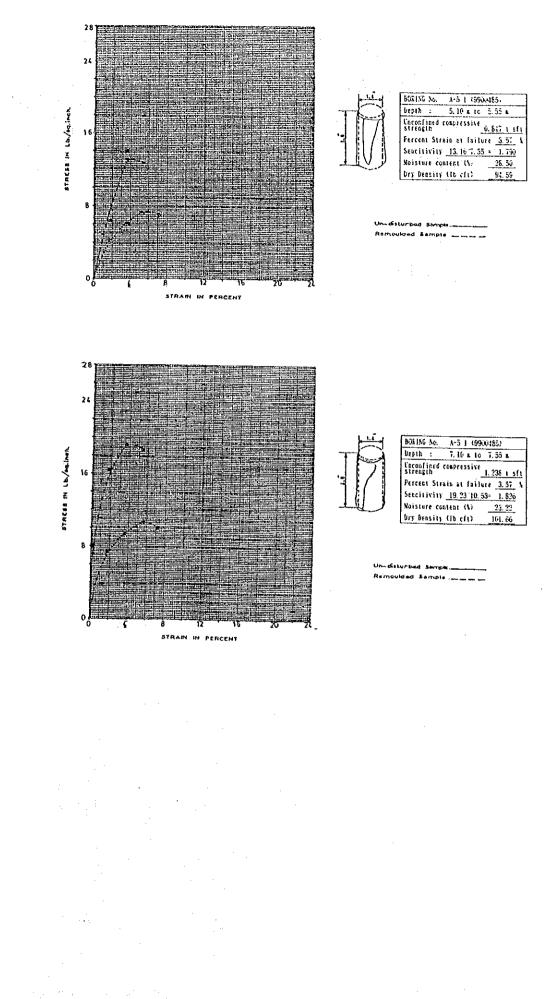


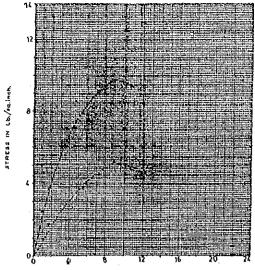


8

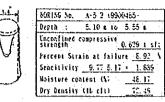
Unidisturped Samples  95.00

STRAIN IN PERCENT

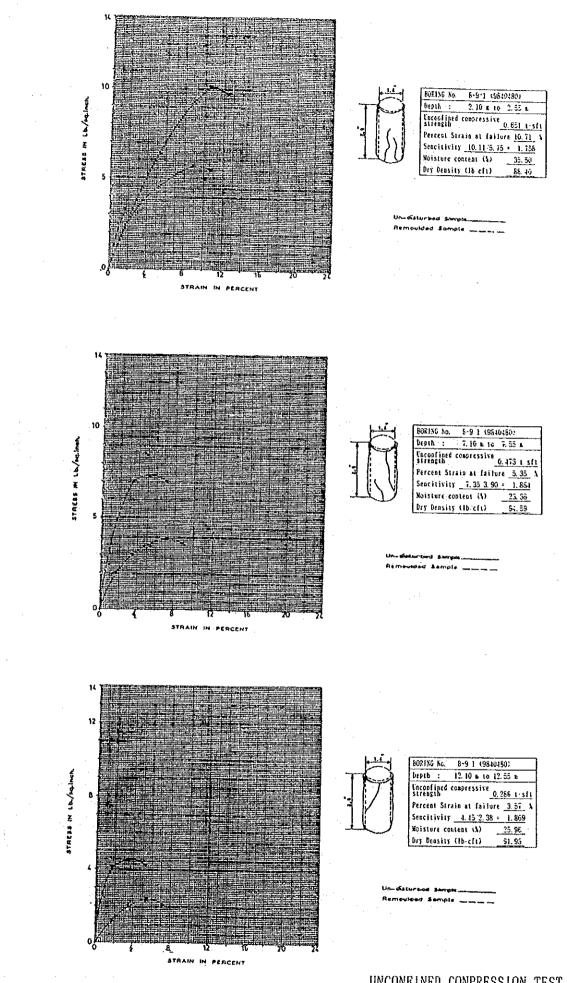


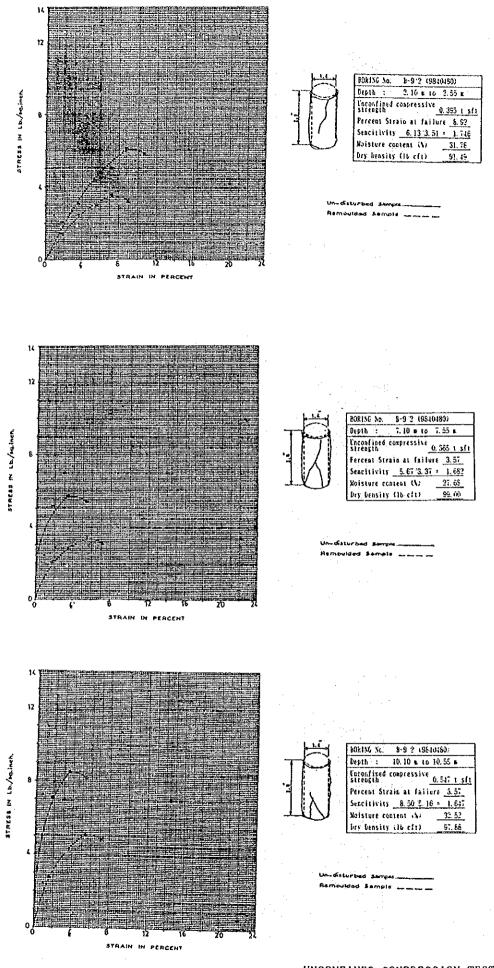


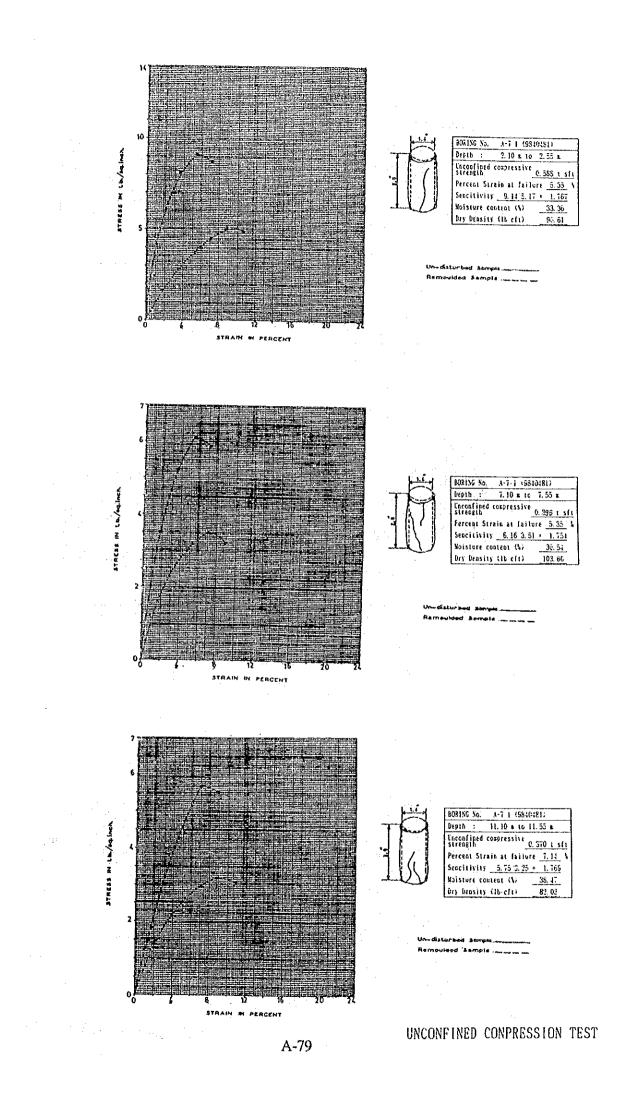
STRAIN IN PERCENT

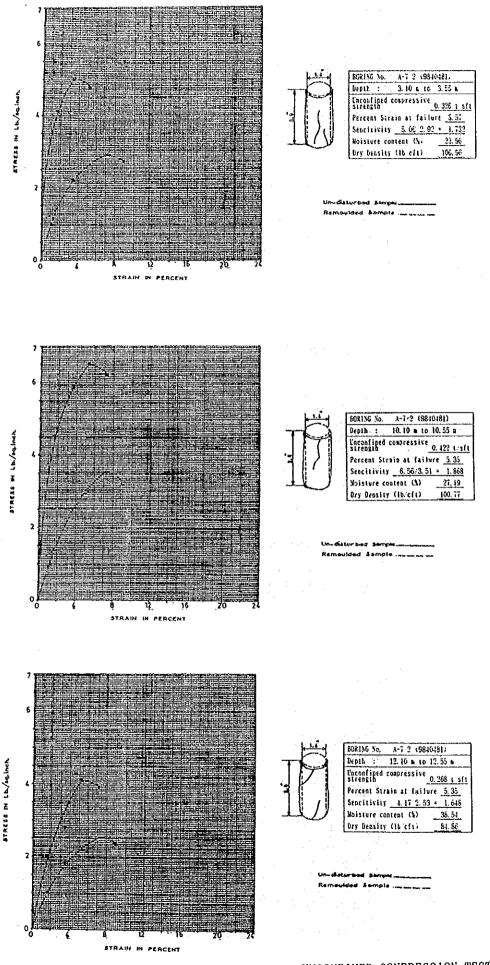


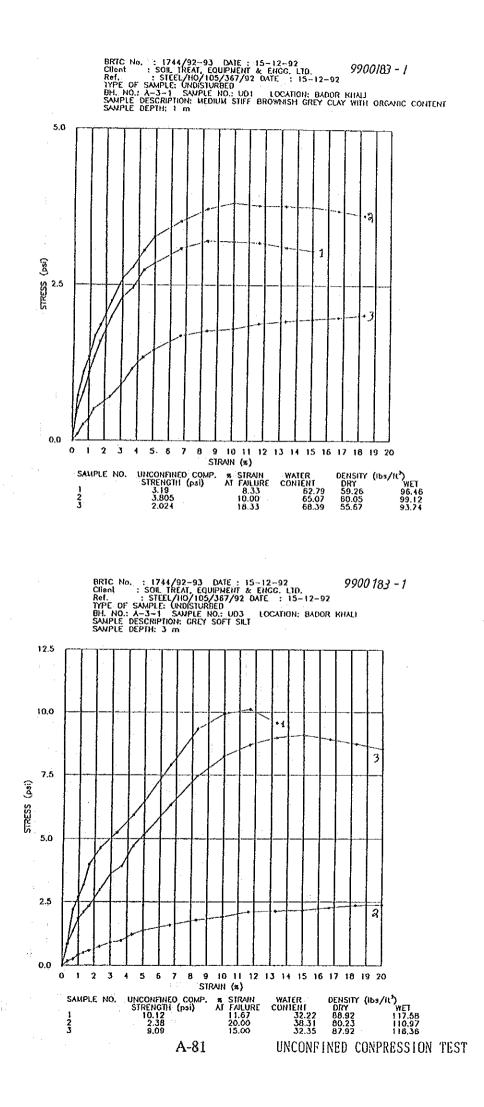
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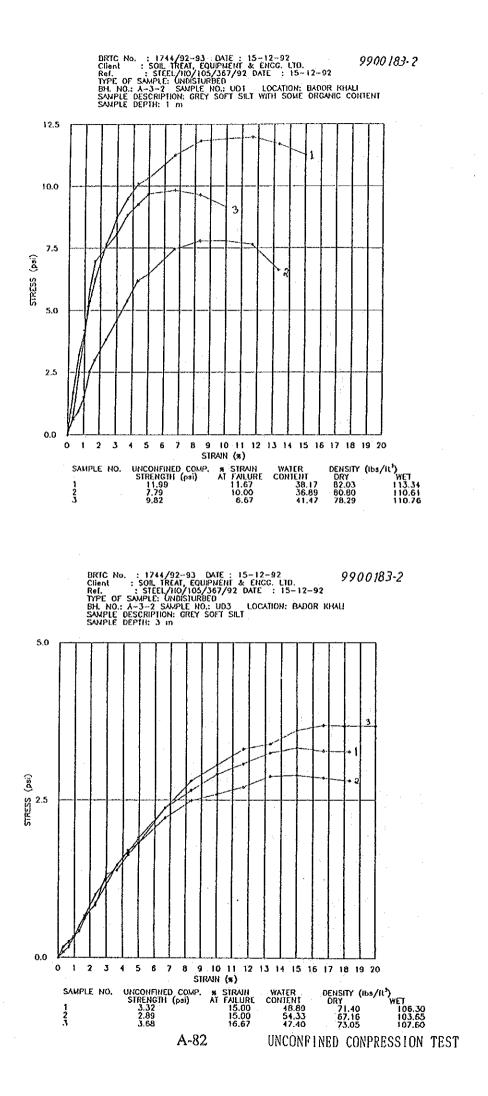


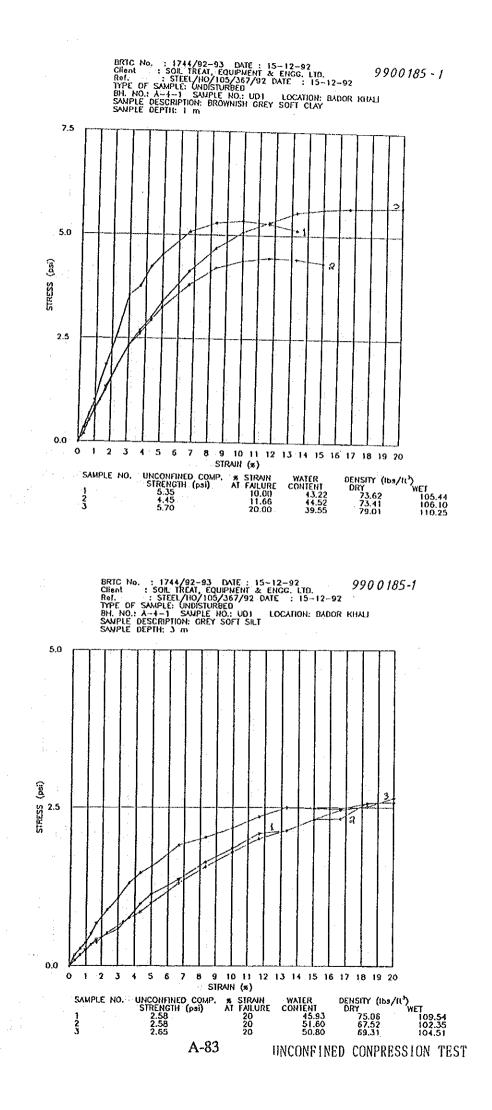


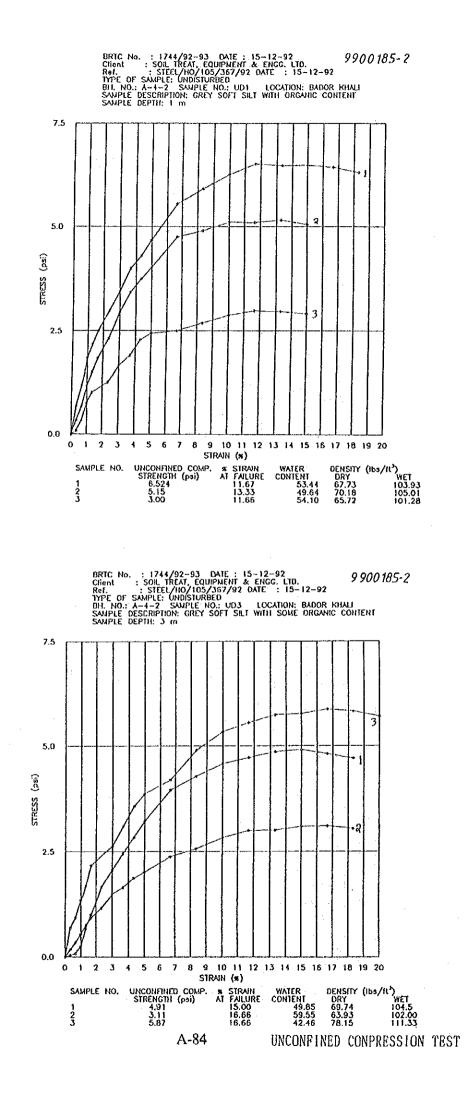


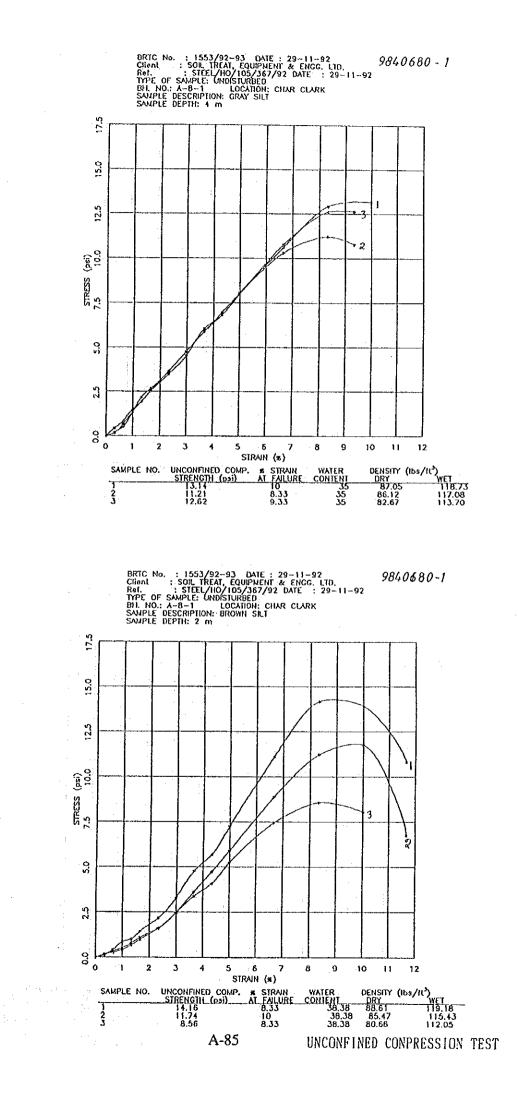


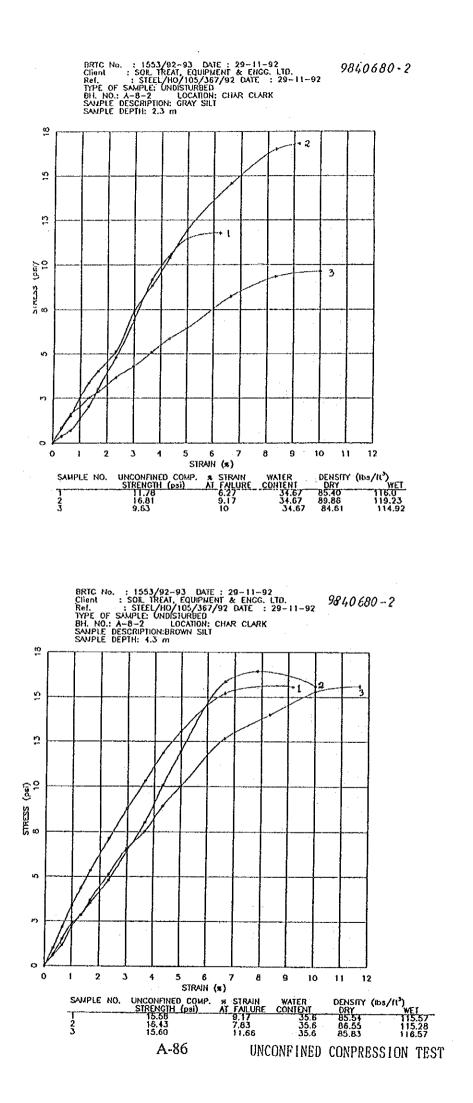












# APPENDIX 2.6 EXAMINATION OF CONSOLIDATION

APPENDIX 2.6 EXAMINATION OF CONSOLIDATION

The

e settelment due to consolidation can be estimated as follows:  

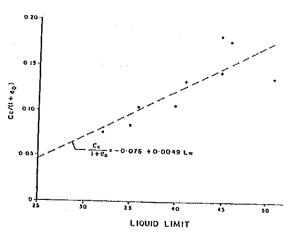
$$Sc = \frac{Cc}{1+e_0} + H + \log \frac{p_z + \Delta P}{p_z}$$
in which Sc : Settelment due to Consolidation  
Cc : Compression Index  
 $e_0$  : Void Ratio  
H : Thickness of Compressible Layer  
 $p_z$ : Original Intergranular Pressure at the Depth of Mid-  
height of the Layer  
 $\Delta P$  : Increase in pressure  
 $\Delta P = 4 \ I_0 \cdot \Delta W/(B \cdot L)$   
 $\Delta W$  : Load of Structure  
B,L: Width and Length of the Basement of Structure  
 $I\sigma$  : Coefficient of influence  
 $I\sigma = \frac{1}{4\pi} \left( \frac{2m\sqrt{m^2 + n^2 + 1}}{m^2 + n^2 + n^2 n^2 + 1} \right) \frac{m^2 + n^2 + 2}{m^2 + n^2 + n^2}$   
 $m = B/z$ ,  $n = L/z$ ,  $z$ : Depth

According to the report on The Multipurpose Cyclone Shelter Programme,

 $\frac{Cc}{1+e_{0}} = -0.076 + 0.0049 W_{L}$ 

in which WL : Liquid Limit

The result of examination of consolidation settlement on the each proposed sites are shown as follows:



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### 1) Site No. 9880980

|    | Foundation       | : Indipendent               | Footing               | Df = 3.0m                         |                   |
|----|------------------|-----------------------------|-----------------------|-----------------------------------|-------------------|
|    | G.W.Level        | : GL-1.50m                  |                       |                                   |                   |
|    | Soil Layer       | :                           | Upper                 | Lower                             |                   |
|    |                  | Thickness, H                | 4. Om                 | 5. 5m                             |                   |
|    |                  | N-value                     | 1-3                   | 3-4                               |                   |
|    |                  | ₩⊾                          | 48.3                  | 34.6                              |                   |
|    |                  | Cc/(1+e₀)                   | 0.132                 | 0.073                             |                   |
|    |                  | γt                          | 1.65                  | 1.90                              |                   |
|    |                  | p <sub>z</sub>              | 4.75                  | 8.53                              |                   |
|    |                  | 4 I o                       | 0. 88                 | 0. 79                             |                   |
|    |                  | ٨p                          | 2.64                  | 2. 37                             |                   |
|    |                  |                             |                       |                                   |                   |
|    | Sc = Scı+Sc      | <sub>2</sub> = 0. 132 ×4. 0 | $\frac{4.75+2}{4.75}$ | $\frac{2.64}{5}$ + 0.073 × 5.510g | 8.53+2.37<br>8.53 |
|    | = 0.101+         | 0.043 (m) = 1               | 4.4 (cm)              | . * .                             | 0.00              |
| 2) | Site No. 9880982 |                             |                       |                                   |                   |
|    | ① Foundation     | : Indipendent               | Footing               | Df = 2.0m                         |                   |
|    | G.W.Level        |                             |                       |                                   |                   |
|    | Soil Layer       |                             | Silt with             | Organic Matter                    |                   |
|    |                  | Thickness, H                |                       |                                   |                   |

| Dajei | •            | offe with ofganic | Matte |
|-------|--------------|-------------------|-------|
|       | Thickness, H | 4. Om             |       |
|       | N-value      | 1-3               |       |
| -     | W1.          | 55.40             |       |
|       | Cc/(l+eu)    | 0.162             |       |
|       | γt           | 1.65              |       |
|       | Рz           | 3.60              |       |
|       | 4 I a        | 0.99              | •     |
|       | Δp           | 2.96              |       |
|       |              |                   |       |

Sc = 0. 162  $\times$  4. 0 log  $\frac{3.60+2.96}{3.60}$ = 0.168 (m) = 16.8 (cm)

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② Foundation : Indipendent Footing Df = 3.0m G.W.Level : GL-1.00m Soil Layer : Silt with Organic Matter Thickness, H 3. Om N-value 1 - 3Wъ 55.40  $Cc/(1+e_0)$ 0.162 γt 1.65 pz 3, 93 410 0.99 Δp 2.96

Sc = 0. 
$$162 \times 3.0 \log \frac{3.93 + 2.96}{3.93}$$
  
= 0. 118 (m) = 11.8 (cm)

3) Site No. 9900182

| Poundation | : Indipendent | Footing | Df = 3.0m |
|------------|---------------|---------|-----------|
| G.W.Level  | : GL-1.00m    | •       | ,         |
| Soil Layer | •             | Silt    |           |
|            | Thickness, H  | 2. 2m   |           |
|            | N-value       | 1-2     |           |
|            | WL            | 49.3    |           |
|            | Cc/(l+e₀)     | 0.136   |           |
|            | γt            | 1.75    |           |
|            | Рz            | 4.08    |           |
|            | 4 I o         | 1.00    |           |
|            | Δp            | 3.00    |           |

Sc = 0. 136×2. 21og 
$$\frac{4.08+3.00}{4.08}$$
  
= 0.072 (m) = 7.2 (cm)

4) Site No. 9900183

Foundation : Cast in place piling

Compressible layer is not found under the bearing stratum.

5) Site No. 9900185

Foundation : Cast in place piling

Compressible layer is not found under the bearing stratum.

#### 6) Site No. 9900485

Foundation : Indipendent Footing Df = 3.5m G. W. Level : GL-1, 50m Soil Layer : Sand (noncompressible) Silt Thickness, H 1.75 2.25 N-value \_ 2 Ψī 30.0  $Cc/(1+e_0)$ ~ 0.053 γt 1.95 1.70  $p_z$ 6.46 4 I o 1.00 Δp (Dispersion) 2.10 6. 46+2. 10 6. 46  $Sc = 0.053 \times 2.251 og$ = 0.015 (m)= 1.5 (cm)7) Site No. 9840381 Foundation : Indipendent footing Df=1.0m Compressible layer (N  $\leq$  4) is not found under the basement of footing. 8) Site No. 9840480 ① Foundation : Indipendent Footing Df = 2.0mG.W.Level : GL-3.00m Soil Layer : Silt Thickness, H 1. 5m N-value 3-4 $W_{L}$ 38.85  $Cc/(1+e_0)$ 0.091 γt 1.90 Ρz 5.23 410 1.00 ٨p 3.00 Sc = 0.091×1.5log  $\frac{5.23+3.00}{5.23}$  = 0.027 (m) = 2.7 (cm) ② Foundation : Indipendent Footing  $Df = 3.5m^{-1}$ Compressible layer (N  $\leq$  4) is not found under the basement of footing.

9) Site No. 9840481

| 1 | Foundation<br>G.W.Level |                | Footing Df = 3.5m     |
|---|-------------------------|----------------|-----------------------|
|   | Soil Layer              | *<br>•         | Silt                  |
|   |                         | Thickness, H   | 2.5m (depth:5.0-7.5m) |
|   |                         | N-value        | 4                     |
|   |                         | W              | 28.90                 |
|   |                         | Cc/(l∔e₀)      | 0.048                 |
|   |                         | γt             | 1.85                  |
|   |                         | р <sub>г</sub> | 9.26                  |
|   |                         | 4 I o          | 0.97                  |
|   |                         | ٨p             | 2.92                  |

Sc = 0.048×2.51og 
$$\frac{9.26+2.92}{9.26}$$
 = 0.014 (m) = 1.4 (cm)

10) Site No. 9840680

Foundation : Indipendent footing Df=1.0m Compressible layer (N  $\leq$  4) is not found under the basement of footing.

# APPENDIX 3

#### APPENDIX 3.1 COUNTRY DATA (BANGLADESH)

(I) Basic Indicies

| (1) | Name of the Country |     | : | The People's Republic of Bangladesh |
|-----|---------------------|-----|---|-------------------------------------|
| -   | Capital             |     | : | Dhaka                               |
|     | Independence day    | . : | : | March 26, 1971                      |

(2) Land and population

| Area                       | : | 144 thousand km <sup>2</sup> |
|----------------------------|---|------------------------------|
| Population                 | : | 109.9 million (March, 1991)  |
| Population density         | : | 740 persons/km <sup>2</sup>  |
| Population increase rate   | : | 2.026% (1981-1991)           |
| Municipal population ratio |   | 10.7% (1991)                 |
| Life expectancy at birth   | : | 56.1 (1991)                  |

(3) Political system

The President shall, as head of state, take precedence over all other persons in the State, and shall exercise the power and perform the duties conferred and imposed on him by the constitution and by any other law. The President shall act in accordance with the advice of the Prime Minister.

The President shall hold office for a term of five years from the date on which he enters upon his office. No person shall hold office as President for more than two terms, whether or not the terms are consecutive.

There shall be a cabinet for Bangladesh having the Prime Minster at its head and comprising also such other Ministers as the Prime Minister may from time to time designate. The executive power of the Republic shall be executed by or on the authority of the Prime Minister.

(4) Religion

About 86.7% Moslems, 12.1% Hindu, with 1.2% Buddhists and Christians.

#### (5) Language

Bengali is the official language. English is popularized although English speaking ability is dependent upon the age and education levels.

(6) Ethnic composition

The population is overwhelmingly Bengal consisting of various mixed races, and largely divided into Travidian, Mongolian and Aryan races although it is impossible to identify these races in a strict sense

| (7) | Education                     |   |                          |               |
|-----|-------------------------------|---|--------------------------|---------------|
|     | Literacy rate for all ages    | : | 24.8% (1991)             |               |
|     | Percent of participation rate |   |                          |               |
|     | Primary (5-9 years)           | : | 94.6%                    |               |
|     | Secondary (10-14 years)       | : | 27.6%                    |               |
|     | Higher (15-24 years)          | ; | 4.20%                    |               |
|     |                               |   |                          |               |
| (8) | Currency and exchange rate    |   | $\epsilon_{\rm eff} = 2$ | · · · · · ·   |
|     | Currency Unit                 |   | Taka (TK)                |               |
|     | Exchange rate                 | : | TK 38.63 to US\$1 (in D  | ecember 1992) |
|     |                               |   |                          |               |

#### (9) Climate, Geology/Geography and Latitude

#### 1) Climate

The climate belongs to a typical semi-tropical monsoom climate. According to the climatic feastures, one year is divided into the following three seasons: namely, (1) North-western season (Summer: March through May); (2) Monsoon season (Rainy season: June through October); and (3) Dry season (November through February). The atomospheric temperature is highest in April and reasches 35.06°C in maximum in Dhaka, while the lowest temperature is 11.72°C in January in the dry season. The rainfall is concentrated in the rainy season as roughly 80% of the yearly rainfall takes place during this season.

The rainfall is generally large in the eastern part of the country, and that in the western part is small.

#### 2) Geology/Geography

Located at the eastern edge of the Indian Subcontinent, the majority of the land is occupied by the lower reaches (downstream river sections) of the big three rivers, the Ganges, Jamuna and Meghna rivers, and featured by a typical delta zone where tributaries and distributaries flow in. The land is mostly comprised of vast, low and flat alluvial plain, and the ground consists of weak silty formations. 3) Latitude

Bangladesh is located within lat. 20° 75' - 25° 75' and longitude 88° 30' - 92° 75'. While its western part borders West Bengal of India, its northern part borders Assam and Maharaya of the country. Moreover, its eastern part successively borders Tripura Mezoram and other various states of India, the south-eastern part of the country faces Myanmar (Burma) on the Chittagong area hill zone.

(II) Socio-economic Indices

(1) Gross domestic products (GDP)

| GDP (1990-1991)    | : US\$21.6 billion |
|--------------------|--------------------|
| GDP per capita     | : US\$185 (1991)   |
| Annual growth rate | : 2.6% (1988)      |

- (2) Gross national products (GNP)
   GNP : US\$21.0 billion
   GNP per capita : US\$191 (1991)
- (3) Sectoral shares of GDP (REfer to Table 1)
  - (4) Configuration of major export/import products (Refer to Tabla 2)
  - (5) International balance of payment (Refer to Table 3).
  - (6) Foreign exchange reserves (Refer to Table 4)
  - (7) Debt service payments of foreign loans (Refer to Table 5)
  - (8) Trade with Japan

| Import from Japan | : US\$304 million (1990/91) |
|-------------------|-----------------------------|
| Export to Japan   | : US\$53 million (1990/91)  |

- (9) Financial balance (Refer to Table 6)
- (10) Population Distribution (Refer to Table 7)

#### Table 1

|     | Sectoral shares o     | f GDP at ( | current n | harket pric | Ces<br>Incentage)   |
|-----|-----------------------|------------|-----------|-------------|---|
| Sec | :101                  | 1987-88    | 1988-89   | 1989-90     | 1990-91   |
| 1.  | Agriculture :         | 38.8       | 37.2      | 36.8        | 36.0  |
|     | I) Crops              | 28.1       | 26.7      | 26.3        | 26.1  |
|     | ii) Forestry          | 4.2        | 3.7       | 3.6         | 3.4   |
|     | iii) Livestock        | 3.0        | 3.2       | 3.4         | 3.2   |
|     | iv) Fisheries         | 3.5        | 3.6       | 3.5         | 3.3   |
| 2.  | Mining & quarrying    | 0.001      | 0.001     | 0.01        | 0.01  |
| з.  | Manufacturing         | 8,5        | 8.4       | 8.8         | 8.7   |
|     | i) Large scale        | 4.8        | 4.8       | 5.1         | 5.1   |
|     | ii) Small scale       | 3.7        | 3.6       | 3.7         | 3.6   |
| 4.  | Construction          | 5.8        | 6.0       | 5.8         | 5.7   |
| 5.  | Power, gas, water     |            |           |             |   |
|     | & sanitary services   | 0.8        | 1.0       | 1.2         | 1.3   |
| 6.  | Transport, storage    |            |           |             |   |
|     | & communication       | 11.0       | 10.9      | 10.2        | 11.7  |
| 7.  | Trade servies         | 8.4        | 8.3       | 8.4         | 8.2   |
| 3.  | Housing services      | 8.4        | 9.1       | 9.0         | 8.8   |
| э.  | Public admn. and      |            |           |             | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |
|     | defence               | 4.1        | 4.4       | 4.4         | 4.6   |
| 0.  | Banking and Insurance | 1.9        | 2.0       | 2.1         | 2.0   |
|     | Protessional & Misce- |            |           |             |   |
|     | llaneous services     | 12.3       | 12.7      | 13.3        | 13.0  |
| 2.0 | GDP at market price   | 100.0      | 100.0     | 100.0       | 100.0   |

|          |                       | prices  | +       |         |              |
|----------|-----------------------|---------|---------|---------|--------------|
|          |                       | -       |         |         | (Percontage) |
| <b>_</b> |                       | 1987-88 | 1988-89 | 1989-90 | 1990-91      |
| 1.       | Agriculture:          | 38.4    | 37.1    | 38.3    | 37.6         |
|          | i) Crops              | 30.1    | 28.8    | 30.3    | 29.6         |
|          | ii) Forestry          | 2.7     | 2.6     | 2.5     | 2.5          |
|          | iii) Livestock        | 2.8     | 2.9     | 2.8     | 2.8          |
|          | iv) Fisheries         | 2,8     | 2.8     | 2.7     | 2,7          |
| 2.       | Mining & quarrying    | 0.001   | 0.001   | 0.01    | 0.02         |
| 3.       | Manufacturing         | 9.8     | 9.8     | 9.9     | 9.8          |
|          | i) Large scale        | 5.5     | 5.5     | 5.8     | 5.7          |
|          | ii) Small scale       | 4.3     | 4.3     | 4.1     | 4.1          |
| 4.       | Construction          | 6.0     | 6.2     | 6.0     | 6.1          |
| 5.       | Power, gas water &    |         |         |         |              |
|          | sanitry services      | 0.8     | 1.0     | 1.1     | 1.3          |
| 6.       | Transport, storage    |         |         |         |              |
|          | & communication       | 11.9    | 12.1    | 11.9    | 11.8         |
| 7.       | Trade services        | 9.2     | 9.4     | 9.0     | 9.1          |
| 8.       | Housing services      | 7.8     | 7.9     | 7.6     | 7.6          |
| 9.       | Public administration |         |         | · .     |              |
|          | & defence             | 4.1     | 4.3     | 4.1     | 4.3          |
| 10.      | Banking & Insurance   | 2.1     | 2.0     | 1.9     | 1.9          |
| 11.      | Professional & Misce- |         |         |         |              |
|          | llaneous services     | 9.9     | 10.2    | 10.2    | 10.5         |
| 12.      | GDP at market prices  | 100.0   | 100.0   | 100.0   | 100.0        |
|          |                       |         |         |         |              |

Sectoral shares of GDP at constant (1984-85) prices

Source: National Income Section, BBS.

#### Table 2

# Quantity of export of selected items

|                                | 1987-88 | 1988-89 |            | n '000' lon |
|--------------------------------|---------|---------|------------|-------------|
| Jute Raw                       | 250     |         | 1983-90(R) | 1990-9      |
| Jute Manufacture               |         | 274     | 326        | 23          |
|                                | 614     | 511     | 531        | 44          |
| Tea                            | .29     | 23      | 21         | 2           |
| Leather                        | 24      | 20      |            | <u> </u>    |
| Frozen Fish                    | 64<br>A | 20      | 25         | · 1         |
|                                | 6       | 3       | 4          |             |
| Froglegs                       | 4       | 3       | 1          |             |
| <sup>-</sup> ertilizer         | 247     | 370     | 115        |             |
| News print                     |         | 570     | 115        | 23.         |
| Source : Foreign Trade Section | 1       |         |            | -           |

| Items               |         |         |         | (lr        | 1 '000' lon) |  |
|---------------------|---------|---------|---------|------------|--------------|--|
| nems                | 1986-87 | 1987-88 | 1988-89 | 1989-90(R) | 1990-91      |  |
| Rice                | 260     | 674     | 63      | 380        | 16           |  |
| Wheat               | 1511    | 2331    | 2147    | 1157       | 1562         |  |
| Edible oil          | 283     | 456     | 244     | 233        | 237          |  |
| Milk powder         | 40      | 30      | 67      | 63         | 60           |  |
| Fertilizer          | 152     | 298     | 403     | 267        | 296          |  |
| Petroleum oil crude | 1000    | 1212    | 1019    | 2192       | 1060         |  |
| Raw cotton          | 65      | 51      | 75      | 111        | 132          |  |
| Pharmaceutical Prod | 2       | - 1     | 2       | 3          | 2            |  |
| Coal                | 229     | 192     | 49      | 558        | 156          |  |
| Sugar               | 135     | 121     | 155     | 91         | 138          |  |
| Cement              | 1601    | 1563    | 1629    | 1606       | 1611         |  |
| Pig Iron            | 98      | 54      | 27      | 79         | 26           |  |
| Old garments        | 24      | 15      | 3       | 7          | - 8          |  |
| Dyes                | 3       | 7       | 3       | 4          | 4            |  |
| Chemical Products   | 20      | 22      | 17      | 19         | 21           |  |

## Quantity of Import of selected Items

Source : Foreign Trade Section, BBS.

.

|                                 |         | -       |         | (Crore Taka |
|---------------------------------|---------|---------|---------|-------------|
| llens                           | 1987-88 | 1988-89 | 1989-90 | 1990-91(p   |
| Current Accounts:               |         | · .     |         |             |
| Import (c.i.f.)                 | 8393    | 9749    | 11125   | 1115        |
| Export (f.o.b.)                 | 3705    | 4116    | 4893    | 595         |
| Freight & Insurance:            |         |         | · · ·   |             |
| a) On Import                    | 940     | 1063    | 1250    | 122         |
| b) Earned                       | 6       | 4       | 8       |             |
| c) Net                          | (-)934  | (-)1059 | (-)1242 | (-)122      |
| Other goods and                 |         |         |         |             |
| services-net                    | (-)34   | (-)49   | 42      | 26          |
| Balance (                       | -)5657  | (-)6777 | (-)7433 | (-)615      |
| Investment-net                  | (-)415  | (-)433  | (-)405  | (-)36       |
| Transfer by Bangladesh          |         |         |         |             |
| nationals                       | 2461    | 2686    | 2631    | 301         |
| Grants, donations etc.          |         |         |         |             |
| cash or kind                    | 2579    | 2185    | 2462    | 296         |
| Deficit on Current              |         |         |         | • •         |
| Account (                       | -)1033  | (-)2339 | (-)2680 | (-)53       |
| Capital Account:                |         |         |         |             |
| Aid and loans-net               | 1475    | 2490    | 2122    | 196         |
| a) Long term-net                | 1900    | 2793    | 2710    | 240         |
| b) Short term-net               | (-)426  | (-)303  | (-)587  | (-)43       |
| Other capital tran-sactions-net | (-)405  | (-)20   | 807     | (-)109      |
| Errors and omissions            | (-)37   | (-)130  | (-)250  | (-)34       |
|                                 | 1033    | 2339    | 2680    | 53          |

| Tab | le | 3 |
|-----|----|---|
|     |    |   |

Balance of payments

|         |        |        | (Crore taka) |
|---------|--------|--------|--------------|
| Year    | Export | Import | Balance      |
| 1977-78 | 718    | 1822   | - 1104       |
| 1978-79 | 963    | 2207   | - 1244       |
| 1979-80 | 1100   | 3052   | - 1952       |
| 1980-81 | 1148   | 3729   | - 2581       |
| 1981-82 | 1239   | 3873   | - 2634       |
| 1982-83 | 1802   | 4526   | - 2724       |
| 1983-84 | 2014   | 5087   | - 3073       |
| 1984-85 | 2622   | 6826   | - 4204       |
| 1985-86 | 2740   | 6293   | - 3553       |
| 1986-87 | 3368   | 6850   | - 3482       |
| 1987-88 | 4116   | 9159   | - 5043       |
| 1988-89 | 4269   | 9508   | - 5239       |
| 1989-90 | 5141   | 11330  | -6189        |
| 1990-91 | 6027   | 11155  | -5128        |

## Balance of trade

Source: Foreign Trade Section, BBS.

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|   |              |         |             | (Million Taka)   |
|---|--------------|---------|-------------|------------------|
| 1.1   |              | Mone    | y Supply    |                  |
| 1   | Currency     | Damand  | Total money | Foreign exchange |
| 6-1-min-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1 | outside bank | Deposit | supply      | reserve*         |
| 1981  | 9148         | 10715   | 19863       | 4523             |
| 1982  | 8775         | 11346   | 20121       | 2698             |
| , 1983  | 11386        | 14957   | 26343       | 8765             |
| 1984  | 15563        | 19936   | 35499       | 13595            |
| 1985  | 17229        | 25089   | 42318       | 11068            |
| 1986  | 19531        | 29748   | 49279       | 14408            |
| 1987  | 20749        | 31879   | 52628       | 22151            |
| 1988  | 24150        | 26327   | 50477       | 26963            |
| 1989  | 26156        | 28451   | 54607       | 20903            |
| 1990  | 31883        | 31804   | 63687       |                  |
| 1991  | 36118        | 35919   | 72037       | 18161            |
| 1331  | 00110        | 22213   | 12031       | 31501            |

## Money supply and foreign exchange reserve

Excluding inter-bank Items.

Include reserve position in the IMF Source : Bangladesh Bank Bulletin, October-December, 1991and Economic Trends, June, 1992.

Table 5

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|         |         | , J      | (Million US Dollar) |       |  |
|---------|---------|----------|---------------------|-------|--|
| - · · · | <u></u> | Interest | Principal*          | Total |  |
| 1983-84 | ·       | 57.7     | 70.6                | 128.3 |  |
| 1984-85 |         | 64.0     | 106.0               | 170.0 |  |
| 1985-86 | i i     | 72.8     | 110.9               | 183.7 |  |
| 1986-87 |         | 81.1     | 151.7               | 232.8 |  |
| 1987-88 |         | 123.0    | 166.0               | 289.0 |  |
| 1988-89 | 1       | 123.6    | 170.1               | 293.7 |  |
| 1989-90 |         | 116.1    | 185.6               | 301.7 |  |
| 1990-91 |         | 120.0    | 197.2               | 317.2 |  |

#### Debt-Service payments on foreign loans

\* Include downpayment

a) Payment in foreign exchange means free foreign exchange remitted to the donors. Source: External Resources Division, Ministry of Finance.

Table 6

| Consolidated | receipts | and | expenditure |
|--------------|----------|-----|-------------|
|              |          |     |             |

| ••••••••••••••••                 | · · · · · · · · · · · · | na expendita |                |
|----------------------------------|-------------------------|--------------|----------------|
| Classification                   | 1988-89                 | 1989-90      | (Million Taka) |
| A. Total receipts                | 108427                  | 120254       | 1990-91(BE)    |
| Total receipts                   | 100427                  | 120254       | 138194         |
| as % of GDP                      | 16.44                   | 16.30        | 10 50          |
| 1. Total revenue                 | 10.44                   | 10.30        | 16.56          |
| receipts                         | 61015                   | 65194        | 98220          |
| a) Tax                           | 49560                   | 55725        | 63828          |
| Tax revenue as                   | 49560                   | 00720        | 03020          |
| % of GDP                         | 7.51                    | 7.56         | 7.05           |
| b) Non-Tax                       | 11455                   |              | 7.65           |
|                                  |                         | 9469         | 14392          |
| 2. Development receipts          | 47412                   | 55060        | 59974          |
| Dev. receipts                    | 7 40                    |              | →              |
| as % of GDP                      | 7.18                    | 7.47         | 7.19           |
| a) Project                       | 27228                   | 33362        | 36650          |
| b) Food &                        | 04004                   | 04000        | 00744          |
| Commodities                      | 24924                   | 24893        | 28714          |
| c) Internal resource             | (-)4740                 | (-)3195      | (-)5390        |
| B. Total expenditure             | 108339                  | 119405       | 124969         |
| Total exp. as                    | 40.10                   |              |                |
| % of GDP                         | 16.42                   | 16.19        | 14.98          |
| 1. Revenue exp.                  | 61885                   | 65098        | 72070          |
| a) Wages & Salaries              | 24643                   | 23676        | 25715          |
| b) Commodities &                 |                         |              | :              |
| services                         | 26303                   | 15371        | 18223          |
| c) Transfer                      | 7735                    | 7078         | 8496           |
| d) Others                        | 3204                    | 18973        | 19636          |
| 2. Dev. Expenditure              | 46454                   | 54307        | 52899          |
| Dev. expenditure                 |                         |              |                |
| as % of GDP                      | 7.04                    | 7.36         | 6.34           |
| a) Agri. Flood control,          |                         |              |                |
| water resources &                |                         |              | 1. A           |
| rural institutions               | 12214                   | 15916        | 15455          |
| b) Industry                      | 5197                    | 5847         | 8468           |
| c) Trans. & Comm.                | 9449                    | 10486        | 10095          |
| d) Others                        | 19594                   | 22058        | 18881          |
| Source · National Income Section | 200                     |              |                |

Source : National Income Section, BBS.

| Groups             | Bolh  |       |                  |       | Urban |            |            | Rura       | /            |
|--------------------|-------|-------|------------------|-------|-------|------------|------------|------------|--------------|
|                    |       |       | -                | Both  |       |            | Both       | ,          |              |
|                    | SOX   | Mab   | Fem              | sex   | Malo  | Fem        | sex        | Male       | Fem          |
| Number In thousand |       |       |                  |       |       |            |            |            |              |
| All ages           | 89912 | 46295 | 43617            | 14089 | 7862  | 6227       | 75823      | 38433      | 37390        |
| 0-4                | 15333 | 7718  | 7615             | 2025. |       | 1000       | 13308      | 6703       | 6605         |
| 5-9                | 14544 | 7363  | 718 <del>1</del> | 1930  | 981   | 949        | 12614      | 6382       | 6232         |
| 10-14              | 12037 | 6442  | 5595             | 1902  | 1005  | 897        | 10135      | 5437       | 4698         |
| 15-19              | 8513  | 4290  | 4223             | 1470  | 803   | 667        | 7043       | 3487       |              |
| 20-24              | 6994  | 3359  | 3635             | 1395  |       | 593        | 5599       | 2557       | 3556         |
| 25-29              | 6630  | 3369  | 3261             | 1271  | 769   | 502        | 5359       | 2600       | 3042         |
| 30-34              | 5071  | 2551  | 2520             | 919   | 561   | 358        | 4152       | 1990       | 2759         |
| 35-39              | 4554  | 2426  | 2128             | 767   | 485   | 282        | 3787       | 1990       | 2162<br>1846 |
| 40-44              | 3793  | 1982  | 1811             | 626   | 387   | 239        | 3167       | 1595       | 1572         |
| 45-49              | 2917  | 1613  | 1304             | 442   | 276   | 166        | 2475       | 1337       | 1138         |
| 50-54              | 2761  | 1440  | 1321             | 428   | 244   | 184        | 2333       | 1196       | 1137         |
| 55-59              | 1653  | 932   | 721              | 221   | 136   | 85         | 1432       | 796        | 636          |
| 60-64              | 2030  | 1074  | 956              | 283   | 160   | 123        | 1747       | 914        | 833          |
| 65+                | 3082  | 1736  | 1346             | 410   | 238   | 172        | 2672       | 1498       | 1174         |
|                    |       |       |                  | Perce | nt    |            |            |            |              |
| All ages           | 100.0 | 100.0 | 100.0            | 100.0 | 100.0 | 100.0      | 100.0      | 100.0      | 100 0        |
| }-4                | 17.1  | 16.7  | 17.5             | 14.4  | 12,9  | 16.1       | 17.6       |            | 100.0        |
| 5-9                | 16.2  | 15.9  | 16.5             | 13.7  | 12.5  | 15.2       | 16.5       | 17.4       | 17.7         |
| 0-14               | 13.4  | 13.9  | 13.8             | 13.5  | 12.8  | 14.4       | 13.4       | 16.6       | 16.7         |
| )-14               | 46.7  | 46.5  | 46.8             | 41.6  | 38.2  | 45.7       | 47.6       | 14.1       | 12.6         |
| 5-19               | 9.5   | 9.3   | 9.7              | 10.4  | 10.2  | 10.7       | 9.3        | 48.1       | 47.0         |
| 0-24               | 7.8   | 7.3   | 8.3              | 9.9   | 10.2  | 9.5        | 9.3<br>7.4 | 9.1        | 9.5          |
| 5-29               | 7.4   | 7.3   | 7.5              | 9.1   | 9.8   | 8.1        | 7.4        | 6.6        | 8.1          |
| 0-34               | 5.6   | 5,5   | 5.7              | 6.5   | 7.1   | 5.7        | 5.5        | 6.8<br>5.0 | 7.4          |
| 5-39               | 5.1   | 5.2   | 4.9              | 5.4   | 6.2   | 4.5        | 5.5<br>5.0 | 5.2<br>5.0 | 5.8          |
| 0-44               | 4.2   | 4.3   | 4.2              | 4.4   | 4.9   | 3.8        | 4.2        |            | 4.9          |
| 5-49               | 3.2   | 3.5   | 2.9              | 3.1   | 3.5   | 2.7        |            | 4.2        | 4.2          |
| 0-54               | 3,1   | 3.1   | 3.0              | 3.1   | 3.1   | 3.0        | 3.3<br>3.1 | 3.5        | 3.0          |
| 5-59               | 1.8   | 2.0   | 1.7              | 1.6   | 1.7   | 3.0<br>1.4 | 3.1<br>1.7 | 3.1        | 3.0          |
| 0-64               | 2.2   | 2.3   | 2.2              | 2.0   | 2.0   | 2.0        | 2.3        | 2.1        | 1.7          |
| 5+                 | 3.4   | 3.7   | .3.1             | 2.9   | 3.0   | 2.8        | 2.3<br>3.5 | 2.4<br>3.9 | 2.2<br>3.1   |

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Numerical and Percentage distribution of 1981 Census Population adjusted for under count by age and sex

Source: Population Census, 1981, BBS.

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