Royal Government of Cambodia
Asian Development Bank
World Bank

Inter-Ministerial Resettlement Committee
Ministry of Economy and Finance
Ministry of Industry Mines and Energy

POWER DISTRIBUTION AND
GREATER MEKONG SUB-REGION TRANSMISSION
PROJECT

RESETTLEMENT ACTION PLAN
APPENDIXES

November 2003
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</tr>
</thead>
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           World Bank Operational Policy OP 4.12 - Involuntary Resettlement |
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| C        | Affected Persons Census |
| D        | Questionnaires |
| E        | Data Collected from Replacement Cost Survey |
| F        | Draft Public Information Booklet |
| G        | Estimate of Compensation Costs, Based on Replacement Cost Study |
| H        | Terms of Reference for Independent Monitoring Organization (IMO) |
| I        | Terms of Reference for RP Environmental Coordinator (RPEC) |
| J        | Terms of Reference for Trees Cost Assessment and Income Impacts and Remediation Study |
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APPENDIX A
ADB’S POLICY ON INVOLUNTARY RESETTLEMENT

WORLD BANK OPERATIONAL POLICY OP4.12
INVOLUNTARY RESETTLEMENT
APPENDIX B
GIS DATABASE

This appendix includes several of the aerial photographs with the transmission line right of way superimposed, showing property numbers (in blue) corresponding to the spreadsheet index and also houses that are affected (in red). The photographs selected include:

- The eastern end of the 110kV lines at the existing ring main (Figure 1)
- West Phnom Penh Sub-Station (Figure 13)
- A section parallel to the railway line north of Takeo (Figure 44)
- Takeo Sub-Station (Figure 72)

These are representative of the information (123 figures in all), which is available on the GIS database.
APPENDIX C

AFFECTED PERSONS CENSUS

This appendix includes several sample pages from the Affected Persons' spreadsheet from the 2000 survey. The printed sheets show only a selection of the data available, which has been sorted so that the properties appear consecutively along the route

(i) North to south from West Phnom Penh, 220 kV;
(ii) West to east from West Phnom Penh along the Northern 115 kV spur; and
(iii) West to east from West Phnom Penh along the Southern 115 kV spur.

The complete data, which includes land ownership issues, details of property and structure values and more information on individual trees on properties, is available in the GIS database.

The spreadsheets have been colour coded to help during the evaluation:

- Red shading = WPP and Takeo Sub-Stations
- Grey shading = Presence of a house on the property
- Red font = Some apparent discrepancy to be checked
- Yellow shading = IP
APPENDIX D
QUESTIONNAIRES

This appendix includes the questionnaires for the following surveys:

A. Affected Person (AP) Census (100% of APs) (2000)
B. Socio-Economic Survey (25% of APs) (2000)
C. Replacement Cost Survey for Structures (2003),
D. Replacement Cost Survey for Affected Persons losing Land to Sub-Station (2003) and
APPENDIX E
DATA COLLECTED FROM REPLACEMENT COST SURVEY

This appendix includes:

(a) Summary of information on prices for land sold along transmission line route in last 12 months.
(b) Summary of information on prices for land sold in Sub-Station sites in last 12 months.
(c) Summary of prices requested by land owners on Sub-Station sites.
(d) Summary of information on structures affected by the transmission line construction.
(e) Summary of prices requested by occupants for trees.
(f) Photographs of all structures affected by the transmission line construction, in most cases comparing present condition with that in 2000 Survey.
(g) Several sample reports from the 2003 survey, showing the information that has been collected.

All this information is available on CD.
Structure Affected in ROW

ID: 359  Block Number: 20095
GPS: 0475913E, 1260541N
Location: Kampong Speu, Kong Pisei, Preah Nipean, Prey Toteung
2001 Photo

Land Owner: Phoung Phan
Structure type: Pet B2
Cost to build: $1,600.00
2003 Photo

ID: 360  Block Number: 20096
GPS: 0475922E, 1260401N
Location: Kampong Speu, Kong Pisei, Preah Nipean, Prey Totueng
2001 Photo

Land Owner: Em Somnang
Structure type: Kantang A1
Cost to build: $7,000.00
2003 Photo

ID: 154  Block Number: 10091
GPS: 0476677E, 1267382N
Location: Kandal, Angsnouri, Boeng Thum, Boeng Thum Ti Bei
2001 Photo

Land Owner: Men Samith
Structure type
Cost to build
2003 Photo

No Picture

Thursday, November 13, 2003
ID: 153  Block Number  10090
Land Owner  Horm Hout
GPS  0476687E, 1267417N
Structure type  Kantang A1
Location  Kandal, Angsnourl, Boeng Thum, Boeng Thum Ti Bei
Cost to build  $2,000.00
2001 Photo

ID: 155  Block Number  10092
Land Owner  Long Eng
GPS  0476704E, 1267385N
Structure type  Pet B1
Location  Kandal, Angsnourl, Boeng Thum, Boeng Thum Ti Bei
Cost to build  $1,000.00
2001 Photo

ID: 276  Block Number  40160
Land Owner  H.E Hing Bunheang
GPS  0475623E, 1262885N
Structure type  Chicken Shed
Location  Kandal, Kandal Stueng, Daeum Rues, Krang Chake
Cost to build  $50,000.00
2001 Photo
<table>
<thead>
<tr>
<th>ID: 7467</th>
<th>Block Number: 20118</th>
<th>Land Owner: Larm Chanvong</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS: 0476027E, 1254680N</td>
<td>Structure type: Kantang A2</td>
<td>Cost to build: $750.00</td>
</tr>
<tr>
<td>Location: Kandal, Kandal Stueng, Tbaeng, Chrolong</td>
<td>2001 Photo</td>
<td>2003 Photo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID: 467</th>
<th>Block Number: 20118</th>
<th>Land Owner: Lom Sao Hean</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS: 0476027E, 1254680N</td>
<td>Structure type: Kantang A2</td>
<td>Cost to build: $250.00</td>
</tr>
<tr>
<td>Location: Kandal, Kandal Stueng, Tbaeng, Chrolong</td>
<td>2001 Photo</td>
<td>2003 Photo</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ID: 463</th>
<th>Block Number: 20114</th>
<th>Land Owner: Em Son</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPS: 0476046E, 1254878N</td>
<td>Structure type: Kantang A1</td>
<td>Cost to build: $1,500.00</td>
</tr>
<tr>
<td>Location: Kandal, Kandal Stueng, Tbaeng, Chrolong</td>
<td>2001 Photo</td>
<td>2003 Photo</td>
</tr>
</tbody>
</table>
ID: 393  Block Number  30196
Land Owner  Ouk Say
Structure type  Kantang A2
Cost to build  $800.00
Location  Kandal, Kandal Stueng, Trapaeng Veaeng, Prey Totueng
2001 Photo

ID: 3132  Block Number  40610
Land Owner  Phon Peang
Structure type  Kantang A1
Cost to build  $5,000.00
Location  Phnom Penh, Dang Kor, Chaom Chau, Domnak Troyeung
2003 Photo

ID: 3134  Block Number  40612
Land Owner  Sim Sorn
Structure type  American Style
Cost to build  $2,500.00
Location  Phnom Penh, Dang Kor, Chaom Chau, Domnak Troyeung
2003 Photo

No Picture
ID: 3135  Block Number  40613
Land Owner  San So
GPS  0482371E, 1271213N
Structure type  Kantang A2
Location  Phnom Penh, Dang Kor, Chaom Chau, Domnak Troyeung
Cost to build  $1,750.00

2003 Photo

ID: 3064  Block Number  10635
Land Owner  Khim Chan
GPS  0484591E, 1272256N
Structure type  Kantang A1
Location  Phnom Penh, Dang Kor, Chaom Chau, Trapeang Rom Chake
Cost to build  $8,500.00

2003 Photo

ID: 3159  Block Number  40637
Land Owner  Sous Yeing
GPS  0484203E, 1271225N
Structure type  Kantang A1
Location  Phnom Penh, Dang Kor, Prey Sor, Prey Tytuy
Cost to build  $1,400.00

2003 Photo
ID: 797
Block Number 10355
Land Owner Chimm Chum
GPS 0475311E, 1242138N
Location Takeo, Bati, Trapang Krasang, Rolaeng

2001 Photo

2003 Photo

ID: 798
Block Number 10356
Land Owner Sao Ith
GPS 0475275E, 1242133N
Location Takeo, Bati, Trapang Krasang, Rolaeng

2001 Photo

2003 Photo

ID: 803
Block Number 10361
Land Owner Noun Tim
GPS 0475265E, 1231921N
Location Takeo, Bati, Trapang Krasang, Rolaeng

2001 Photo

2003 Photo

Thursday, November 13, 2003
ID: 796  Block Number 10354
Land Owner: Meas Oeun
GPS: 0475275E, 1242133N
Location: Takeo, Bati, Trapaeng Krasang, Rolaeng
Structure type: Kantang A1
Cost to build: $1,800.00
2001 Photo

ID: 829  Block Number 10241
Land Owner: Hay Chiv
GPS: 0475247E, 1241291N
Location: Takeo, Bati, Trapaeng Krasang, Romdoul
Structure type: Kantang A1
Cost to build: $1,800.00
2001 Photo

ID: 830  Block Number 10242
Land Owner: Pich Pen
GPS: 0475244E, 1241248N
Location: Takeo, Bati, Trapaeng Krasang, Romdoul
Structure type: Pet B2
Cost to build: $500.00
2001 Photo
ID: 839  Block Number 10251
Land Owner  Kol Kin
Structure type  Kantang A1
Cost to build  $2,500.00

GPS  0475187E, 1240928N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul

2001 Photo

ID: 875  Block Number 10287
Land Owner  Van Phally
Structure type  Kantang A2
Cost to build  $1,600.00

GPS  0475153E, 1239986N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul

2001 Photo

ID: 831  Block Number 10243
Land Owner  Thun Pin
Structure type  Pet B2
Cost to build  $800.00

GPS  0475214E, 1241261N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul

2001 Photo
ID: 847  Block Number 10259
Land Owner  Lang Kun
GPS  0475199E, 1240776N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul
Cost to build  $1,400.00

2001 Photo

ID: 834  Block Number 10246
Land Owner  Chea Som
GPS  0475203E, 1241181N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul
Cost to build  $500.00

2001 Photo

ID: 838  Block Number 10250
Land Owner  Youn Touch
GPS  0475191E, 1241000N
Location  Takeo, Bati, Trapaeng Krasang, Romdoul
Cost to build  $800.00

2001 Photo
ID: 786    Block Number 40319
Land Owner  Du Nov
GPS  0475330E, 1242586N
Location  Takeo, Bati, Trapaeng Krasang, Thlork
Structure type  Kantang A2
Cost to build  $1,000.00
2001 Photo

ID: 784    Block Number 40317
Land Owner  Ung Neang
GPS  0475327E, 1242636N
Location  Takeo, Bati, Trapaeng Krasang, Thlork
Structure type  Kantang A1
Cost to build  $1,500.00
2001 Photo

ID: 780    Block Number 40313
Land Owner  Ros Chun
GPS  0475334E, 1242777N
Location  Takeo, Bati, Trapaeng Krasang, Thlork
Structure type  Kantang A1
Cost to build  $1,500.00
2001 Photo
ID: 778  Block Number 40311
Land Owner Van Ven
GPS 0475343E, 1242835N
Location Takeo, Bati, Trapaeng Krasang, Thlork
Structure type Kantang A1
Cost to build $3,500.00
2001 Photo

ID: 775  Block Number 40308
Land Owner Pong Pov
GPS 0475339E, 1242934N
Location Takeo, Bati, Trapaeng Krasang, Thlork
Structure type Kantang A2
Cost to build $400.00
2003 Photo

ID: 787  Block Number 40320
Land Owner Om Puch
GPS 0475333E, 1242555N
Location Takeo, Bati, Trapaeng Krasang, Thlork
Structure type Kantang A1
Cost to build $1,750.00
2003 Photo
ID: 893  Block Number 10330
Land Owner  Ean Em
GPS  0475112E, 1239417N
Structure type  Kantang A2
Location  Takeo, Bati, Trapaeng Krasang, Yeam Khao
Cost to build  $1,000.00
2001 Photo

ID: 903  Block Number 10342
Land Owner  Chit Sot
GPS  0475090E, 1238978N
Structure type  Kantang A2
Location  Takeo, Bati, Trapaeng Krasang, Yeam Khao
Cost to build  $1,600.00
2001 Photo

ID: 898  Block Number 10335
Land Owner  Chem Unn
GPS  0475049E, 1239180N
Structure type  Pet B2
Location  Takeo, Bati, Trapaeng Krasang, Yeam Khao
Cost to build  $200.00
2001 Photo

No Picture
<table>
<thead>
<tr>
<th>ID</th>
<th>Block Number</th>
<th>Land Owner</th>
<th>Structure type</th>
<th>Cost to build</th>
<th>Year 1 Photo</th>
<th>Year 2 Photo</th>
</tr>
</thead>
<tbody>
<tr>
<td>895</td>
<td>10332</td>
<td>Chea La</td>
<td>Kantang A2</td>
<td>$1,500.00</td>
<td>No Picture</td>
<td></td>
</tr>
<tr>
<td>906</td>
<td>10343</td>
<td>Sin Khom</td>
<td>Kantang A2</td>
<td>$3,000.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>657</td>
<td>40190</td>
<td>Lao Yorn</td>
<td>American Style</td>
<td>$1,500.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
ID: 652  Block Number  50159
Land Owner  Phoak Tuy
Structure type  Kantang A1
Cost to build  $2,000.00

GPS  0475533E, 1245566N
Location  Takeo, Bati, Trapaeng Sab, Prech

2001 Photo

2003 Photo

ID: 808  Block Number  10366
Land Owner  Phoung Lon
Structure type  Pet B2
Cost to build  $400.00

GPS  0475990E, 1241859N
Location  Takeo, Bati, Trapaeng Sab, Rolaeng

2001 Photo

2003 Photo

ID: 1496  Block Number  20406
Land Owner  Kong Saona
Structure type  Kantang A1
Cost to build  $2,800.00

GPS  0473564E, 1217646N
Location  Takeo, Doun Kaev, Roka knong, Au Svay Chake

2001 Photo

2003 Photo
ID: 1501   Block Number 20413
Land Owner  Ros Sinarin
GPS  0473559E, 1217437N
Structure type
Location  Takeo, Doun Kaev, Roka knong, Au Svay Chake
Cost to build $1,500.00
2001 Photo
2003 Photo

ID: 1474   Block Number 50311
Land Owner  Pov Chab
GPS  0473669E, 1218510N
Structure type Kantang A2
Location  Takeo, Doun Kaev, Roka knong, Chres
Cost to build $1,600.00
2001 Photo
2003 Photo

ID: 1487   Block Number 20444
Land Owner  Nheb Cheng
GPS  0473445E, 1216517N
Structure type Kantang A1
Location  Takeo, Doun Kaev, Roka knong, Kseung
Cost to build $1,500.00
2001 Photo
2003 Photo
| ID: 1445 | Block Number 30102 | Land Owner | chhuk vorn |
|          |                   | Structure type | Kantang A1 |
|          |                   | Cost to build | $900.00 |
| GPS 0473811E, 1219754N | Location | Takeo, Doun Kaev, Roka knong, Prey Prom |
| 2001 Photo | 2003 Photo |

| ID: 1605 | Block Number 30138 | Land Owner | Chak Tith Rithy |
|          |                   | Structure type | Kantang A1 |
|          |                   | Cost to build | $1,200.00 |
| GPS 0473523E, 1214504N | Location | Takeo, Doun Kaev, Roka knong, Sambour |
| 2001 Photo | 2003 Photo |

| ID: 1578 | Block Number 30321 | Land Owner | Sieb Mao |
|          |                   | Structure type | Kantang A2 |
|          |                   | Cost to build | $600.00 |
| GPS 0473535E, 1215012N | Location | Takeo, Doun Kaev, Roka knong, Sambour |
| 2001 Photo | 2003 Photo |

No Picture

Thursday, November 13, 2003
| ID: 1579 | Block Number 30122 | Land Owner | Ek Pen |
| GPS 0473535E, 1214988N | Structure type | Kantang A2 |
| Location | Cost to build | $500.00 |
| Takeo, Doun Kaev, Roka knong, Sambour | 2001 Photo | 2003 Photo |

| ID: 1580 | Block Number 30123 | Land Owner | Roeun Sen |
| GPS 0473536E, 1214968N | Structure type | Kantang A2 |
| Location | Cost to build | $1,800.00 |
| Takeo, Doun Kaev, Roka knong, Sambour | 2001 Photo | 2003 Photo |

| ID: 1601 | Block Number 30134 | Land Owner | Sim Seng |
| GPS 0473538E, 1214610N | Structure type | Kantang A1 |
| Location | Cost to build | $1,500.00 |
| Takeo, Doun Kaev, Roka knong, Sambour | 2001 Photo | 2003 Photo |
ID: 1604  Block Number  30137
Land Owner  Seng Sary
Structure type  Kantang A2
Cost to build  $1,200.00

Location  Takeo, Doun Kaev, Roka knong, Sambour

GPS  0473544E, 1214504N
2001 Photo

ID: 1642  Block Number  10458
Land Owner  Nop Samy
Structure type  Kantang A1
Cost to build  $2,500.00

Location  Takeo, Doun Kaev, Roka Krau, Prahote

GPS  0473576E, 1213349N
2001 Photo

ID: 1648  Block Number  10464
Land Owner  Meas Seam
Structure type  Kantang A1
Cost to build  $2,700.00

Location  Takeo, Doun Kaev, Roka Krau, Prahote

GPS  0473581E, 1213181N
2001 Photo

No Picture

Thursday, November 13, 2003
ID: 1651  Block Number 10467
Land Owner Khum Khieng
GPS 0473581E, 1213181N
Structure type Kantang A1
Location Takeo, Doun Kaev, Roka Krau, Prahote
Cost to build $1,500.00
2001 Photo

No Picture

ID: 71648  Block Number 10464
Land Owner Meas Phalla
GPS 0473581E, 1213181N
Structure type Kantang A1
Location Takeo, Doun Kaev, Roka Krau, Prahote
Cost to build $3,780.00
2001 Photo

No Picture

ID: 1745  Block Number 20488
Land Owner Tith Kraouch
GPS 0476071E, 1210049N
Structure type Kantang A2
Location Takeo, Doun Kaev, Roka Krau, Trapeang Sala
Cost to build $800.00
2001 Photo

2003 Photo
ID: 2393  Block Number 30315
Land Owner Va Sas
GPS 0481673E, 1190822N
Structure type Kantang A2
Location Takeo, Kos Andet, Pechorsa, Ta Bour
Cost to build $1,300.00
2001 Photo
No Picture
2003 Photo

ID: 2392  Block Number 30314
Land Owner Va Ven
GPS 0481685E, 1190827N
Structure type Kantang A2
Location Takeo, Kos Andet, Pechorsa, Ta Bour
Cost to build $1,800.00
2001 Photo
2003 Photo

ID: 1308  Block Number 40404
Land Owner Im Keoun
GPS 0473981E, 1224333N
Structure type Kantang A1
Location Takeo, Samrong, Boeng Trahn South, Mohareach
Cost to build $800.00
2001 Photo
2003 Photo
ID: 1316  Block Number 40412
Land Owner Kea Neuv
Structure type Kantang A2
Cost to build $1,200.00

GPS 0473965E, 1224077N
Location Takeo, Samrong, Boeng Trahn South, Mohareach

2001 Photo

ID: 1315  Block Number 40411
Land Owner Heng Leakhana
Structure type Kantang A1
Cost to build $3,200.00

GPS 0473968E, 1224108N
Location Takeo, Samrong, Boeng Trahn South, Mohareach

2001 Photo

ID: 1309  Block Number 40405
Land Owner Nop Yoeung
Structure type Kantang A2
Cost to build $1,400.00

GPS 0473983E, 1224314N
Location Takeo, Samrong, Boeng Trahn South, Mohareach

2001 Photo
ID: 1307    Block Number 40403
Land Owner: Teuk chhoeun
GPS: 0473983E, 1224429N
Structure type: Kantang A2
Location: Takeo, Samrong, Boeng Trahn South, Mohareach
Cost to build: $1,600.00
2001 Photo

ID: 1314    Block Number 40410
Land Owner: Kong Thou
GPS: 0473963E, 1224134N
Structure type: Kantang A2
Location: Takeo, Samrong, Boeng Trahn South, Mohareach
Cost to build: $1,600.00
2003 Photo

ID: 1263    Block Number 50264
Land Owner: Som Sopheap
GPS: 0474072E, 1225766N
Structure type: Kantang A1
Location: Takeo, Samrong, Boeng Trahn South, Boeng Trahn
Cost to build: $800.00
2003 Photo
ID: 1266  Block Number: 50267
Land Owner: Thiang Art
GPS: 0474100E, 1225675N
Location: Takeo, Samrong, Boeng Tranh South, Boeng Tranh
Structure type: Kantang A2
Cost to build: $800.00

2001 Photo

ID: 1265  Block Number: 50266
Land Owner: Phab Nget
GPS: 0474069E, 1225731N
Location: Takeo, Samrong, Boeng Tranh South, Boeng Tranh
Structure type: Pet B2
Cost to build: $700.00

2001 Photo

ID: 1264  Block Number: 50265
Land Owner: Lok Neang
GPS: 0474099E, 1225712N
Location: Takeo, Samrong, Boeng Tranh South, Boeng Tranh
Structure type: Kantang A2
Cost to build: $1,200.00

2001 Photo
ID: 1238  Block Number  20358
Land Owner  Touch Pheap
GPS  0474161E, 1226823N
Structure type  Pet B2
Location  Takeo, Samrong, Boeng Tranh South, Ta Som
Cost to build  $1,200.00

ID: 1223  Block Number  20343
Land Owner  Yim Kim
GPS  0474205E, 1227364N
Structure type  Kartang A2
Location  Takeo, Samrong, Boeng Tranh South, Ta Som
Cost to build  $1,500.00

ID: 1234  Block Number  20354
Land Owner  Yim Tang
GPS  0474190E, 1226942N
Structure type  Pet B2
Location  Takeo, Samrong, Boeng Tranh South, Ta Som
Cost to build  $800.00
ID: 1239  Block Number: 20359
Land Owner: Chhim Chorn
GPS: 0474165E, 1226760N
Location: Takeo, Samrong, Boeng Tranh South, Ta Som
Structure type: Pet B2
Cost to build: $1,500.00
2001 Photo

ID: 1240  Block Number: 20360
Land Owner: Ke Sok
GPS: 0474153E, 1226691N
Location: Takeo, Samrong, Boeng Tranh South, Ta Som
Structure type: Kantang A2
Cost to build: $1,500.00
2001 Photo

ID: 1224  Block Number: 20344
Land Owner: Yim Sovan
GPS: 04742012, 1227308N
Location: Takeo, Samrong, Boeng Tranh South, Ta Som
Structure type: Kantang A1
Cost to build: $1,500.00
2001 Photo

Thursday, November 13, 2003
ID: 1016  Block Number 40367
Land Owner  Men Chann
Structure type  Pet B1
Cost to build  $2,300.00

GPS 0474731E, 1234404N
Location  Takeo, Samrong, Chumreah Pen, Ta Yeung

2001 Photo

ID: 986  Block Number 40337
Land Owner  Bo Peng
Structure type  Kantang A1
Cost to build  $2,000.00

GPS 0474848E, 1236118N
Location  Takeo, Samrong, Chumreah Pen, Sneng Romaeng

2001 Photo

ID: 974  Block Number 40325
Land Owner  Pot Shoot
Structure type  Kantang A2
Cost to build  $800.00

GPS 0477491E, 1236457N
Location  Takeo, Samrong, Chumreah Pen, Sneng Romaeng

2001 Photo
ID: 984  Block Number  40335
Land Owner  Teri Neang
GPS  0474855E, 1236202N
Structure type  Kantang A1
Location  Takeo, Samrong, Chumreah Pen, Sneng Romaeng
Cost to build  $3,300.00

ID: 985  Block Number  40336
Land Owner  Svay Long
GPS  0474853E, 1236173N
Structure type  Kantang A1
Location  Takeo, Samrong, Chumreah Pen, Sneng Romaeng
Cost to build  $2,800.00

ID: 1014  Block Number  40365
Land Owner  Yin Men
GPS  0474745E, 1234479N
Structure type  Pet B2
Location  Takeo, Samrong, Chumreah Pen, Ta Yueng
Cost to build  $400.00

Thursday, November 13, 2003
ID: 1019  Block Number  40370
Land Owner       Khy Saram
GPS       0474719E, 1234352N
Structure type   Kantang A1
Location       Takeo, Samrong, Chumreah Pen, Ta Yueng
Cost to build   $1,500.00
2001 Photo

ID: 1060  Block Number  50206
Land Owner       Soy Teng
GPS       0474654E, 1233392N
Structure type   Pet B2
Location       Takeo, Samrong, Chumreas Pen, Prey Klar
Cost to build   $1,450.00
2001 Photo

ID: 1062  Block Number  50208
Land Owner       Om Soy
GPS       0474641E, 1233310N
Structure type   Kantang A1
Location       Takeo, Samrong, Chumreas Pen, Prey Klar
Cost to build   $1,500.00
2001 Photo
ID: 1069    Block Number  50215
Land Owner    Pov Proeng
Location    Takeo, Samrong, Chumreas Pen, Prey Klar

GPS  0474624E, 1233160N
Structure type    Pet B1
Cost to build    $220.00

2001 Photo

2003 Photo

ID: 1077    Block Number  50223
Land Owner    Ei Sitha
Location    Takeo, Samrong, Chumreas Pen, Prey Klar

GPS  0474609E, 1232903N
Structure type    Kantang A2
Cost to build    $400.00

2001 Photo

2003 Photo

ID: 1332    Block Number  40423
Land Owner    Ear Hy
Location    Takeo, Samrong, Lumchang, Svay Prey

GPS  0473963E, 1223375N
Structure type    Kantang A1
Cost to build    $1,600.00

2001 Photo

2003 Photo
ID: 1338  Block Number 40429  
Land Owner Om Kunthea  
Structure type Kantang A2  
Cost to build $1,300.00  
2001 Photo

ID: 959  Block Number 50175  
Land Owner Kaom Pho  
Structure type Kantang A2  
Cost to build $1,200.00  
2003 Photo

ID: 962  Block Number 50178  
Land Owner Kam Phin  
Structure type Kantang A1  
Cost to build $10,000.00  
2003 Photo
ID: 960  Block Number 50176  Land Owner Hing Til
GPS 0474965E, 1237487N  Location Takeo, Samrong, Rovieng, Prey Kcheay
Structure type Kantang A2  Cost to build $1,200.00

2001 Photo

2003 Photo

ID: 927  Block Number 20234  Land Owner Bee Nget
GPS 0475007E, 1239495N  Location Takeo, Samrong, Rovieng, Teuk Ambel
Structure type Kantang A2  Cost to build $1,500.00

2001 Photo

2003 Photo

ID: 926  Block Number 20233  Land Owner Hor Ann
GPS 0475045E, 1238488N  Location Takeo, Samrong, Rovieng, Teuk Ambel
Structure type Pet B1  Cost to build $220.00

2001 Photo

2003 Photo
ID: 924  Block Number 20231  Land Owner Tuy Hong
GPS 0475046E, 1238534N
Location Takeo, Samrong, Rovieng, Teuk Ambel
2001 Photo

ID: 528  Block Number 20235  Land Owner Bee Nget
GPS 0475030E, 1238490N
Location Takeo, Samrong, Rovieng, Teuk Ambel
2001 Photo

ID: 937  Block Number 20243  Land Owner Khim Touch
GPS 0475034E, 1238283N
Location Takeo, Samrong, Rovieng, Teuk Ambel
2001 Photo

Land Owner  Tuy Hong
Structure type  Kantang A2
Cost to build  $1,600.00
2003 Photo

Land Owner  Bee Nget
Structure type  Kantang A1
Cost to build  $3,750.00
2003 Photo

Land Owner  Khim Touch
Structure type  Pet B1
Cost to build  $1,600.00
2003 Photo
ID: 925  Block Number 20232
Land Owner: Sok Lon
Structure type: Pet B1
Cost to build: $2,000.00

GPS: 0475007E, 1238512N
Location: Takeo, Samrong, Rovieng, Teuk Ambel
2001 Photo
No Picture

ID: 1027  Block Number 40378
Land Owner: Top Him
Structure type: Kantang A2
Cost to build: $800.00

GPS: 0474820E, 1235715N
Location: Takeo, Samrong, Rovieng, Veay Chneas
2001 Photo

ID: 1110  Block Number 20276
Land Owner: Khiev Som
Structure type: Kantang A1
Cost to build: $2,800.00

GPS: 0474538E, 1231904N
Location: Takeo, Samrong, Samrong, Krang Ro Oat
2001 Photo
<table>
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<tr>
<th>ID</th>
<th>Block Number</th>
<th>Land Owner</th>
<th>Structure type</th>
<th>Cost to build</th>
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<tr>
<td>1204</td>
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<td>Phaok Chea</td>
<td>Kantang A1</td>
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<tr>
<td>1205</td>
<td>10407</td>
<td>touch Chantha</td>
<td>Pet B1</td>
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<td>10388</td>
<td>Em Veun</td>
<td>American Style</td>
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ID: 1186  Block Number  10387
Land Owner  Khim Koun
GPS  0474344E, 1229024N
Structure type  Pet B1
Location  Takeo, Samrong, Soeng, Ang Kdey
Cost to build  $1,200.00
2001 Photo
2003 Photo

ID: 1184  Block Number  10385
Land Owner  Tun Ngoun
GPS  0475354E, 1229166N
Structure type  Kantang A1
Location  Takeo, Samrong, Soeng, Ang Kdey
Cost to build  $2,800.00
2001 Photo
2003 Photo

ID: 1182  Block Number  50253
Land Owner  Vong Tam
GPS  0474353E, 1229275N
Structure type  Pet B2
Location  Takeo, Samrong, Soeng, Trapeang Prey
Cost to build  $500.00
2001 Photo
2003 Photo

Thursday, November 13, 2003
<table>
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<tr>
<th>ID</th>
<th>Block Number</th>
<th>Land Owner</th>
<th>Structure type</th>
<th>Cost to build</th>
<th>GPS</th>
<th>Location</th>
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<td>50245</td>
<td>Nate Tom</td>
<td>Kantang A2</td>
<td>$700.00</td>
<td>0474356E, 1229553N</td>
<td>Takeo, Samrong, Soeng, Trapeang Prey</td>
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<td>2024</td>
<td>40754</td>
<td>Phat Phon</td>
<td>Kantang A1</td>
<td>$1,800.00</td>
<td>0478702E, 1220271N</td>
<td>Takeo, Treang, Angk Khnaor, Kor</td>
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<td>2027</td>
<td>40757</td>
<td>Sun Houch</td>
<td>Kantang A2</td>
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<td>Takeo, Treang, Angk Khnaor, Kor</td>
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ID: 2028  Block Number  40758
Land Owner  Ma Pok
Structure type  Kantang A2
Cost to build  $2,200.00
GPS  0478720E, 1200211N
Location  Takeo, Treang, Angk Khnaor, Kor
2001 Photo

ID: 2026  Block Number  40756
Land Owner  Phat Srey
Structure type  Pet B2
Cost to build  $1,000.00
GPS  0478710E, 1220271N
Location  Takeo, Treang, Angk Khnaor, Kor
2001 Photo

ID: 2084  Block Number  30288
Land Owner  Kim Soeun
Structure type  Kantang A1
Cost to build  $1,900.00
GPS  0479380E, 1198677N
Location  Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
2001 Photo
ID: 2082  Block Number 30286
Land Owner Nop Eak
GPS 0479370E, 1198690N
Structure type Kantang A1
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,800.00
2001 Photo
2003 Photo

ID: 2085  Block Number 30289
Land Owner Nget Ron
GPS 0479381E, 1198664N
Structure type Kantang A1
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,800.00
2001 Photo
2003 Photo

ID: 2086  Block Number 30290
Land Owner MOM TOY
GPS 0479386E, 1198653N
Structure type Kantang A1
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,400.00
2001 Photo
2003 Photo
ID: 2059  Block Number 30263
Land Owner Om Kun
GPS 0479097E, 1199321N
Structure type Kantang A2
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,600.00

ID: 72086  Block Number 30290
Land Owner Mom keo
GPS 0479386E, 1198653N
Structure type Kantang A1
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,400.00

ID: 2081  Block Number 30285
Land Owner Mak Norn
GPS 0479366E, 1198704N
Structure type Kantang A1
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,500.00
ID: 72053  Block Number 30257
GPS 0479052E, 1199465N
Location  Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
2001 Photo

Land Owner  Say Thy
Structure type  Kantang A1
Cost to build $1,500.00

ID: 2056  Block Number 30260
GPS 0479068E, 1199373N
Location  Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
2001 Photo

Land Owner  Moek Sary
Structure type  Kantang A2
Cost to build $1,200.00

ID: 2055  Block Number 30259
GPS 0479062E, 1199398N
Location  Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
2001 Photo

Land Owner  Om Saroeun
Structure type  Kantang A1
Cost to build $1,700.00

Thursday, November 13, 2003
ID: 2053  Block Number: 30257
Land Owner: Nhem Neav
GPS: 0479052E, 1199465N
Location: Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build: $1,500.00
Structure type: Kantang A1
2001 Photo
2003 Photo

ID: 2052  Block Number: 30256
Land Owner: Chem Pech
GPS: 0479011E, 1199471N
Location: Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build: $1,400.00
Structure type: Kantang A1
2001 Photo
2003 Photo

ID: 2051  Block Number: 30255
Land Owner: Chan ngim
GPS: 0479005E, 1199527N
Location: Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build: $1,400.00
Structure type: Kantang A1
2001 Photo
2003 Photo

Thursday, November 13, 2003
ID: 2083   Block Number 30287
Land Owner Nget Prus
GPS 0479374E, 1198680N
Structure type Kantang A2
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,500.00

ID: 82053   Block Number 30257
Land Owner Nhem Neav
GPS 0479052E, 1199465N
Structure type
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build

ID: 2057   Block Number 30261
Land Owner Om Nhoeun
GPS 0479069E, 1199357N
Structure type Kantang A2
Location Takeo, Treang, Pram Bei Mum, Por Nhea Lueu
Cost to build $1,500.00
ID: 2101  Block Number 10723
Land Owner  Chhor Saroeun
Structure type  Pet B1
Cost to build  $1,600.00

2001 Photo

No Picture

ID: 2102  Block Number 10724
Land Owner  Sim Ngan
Structure type  Kantang A1
Cost to build  $1,700.00

2001 Photo

No Picture

ID: 2098  Block Number 10720
Land Owner  Som Soeun
Structure type  Kantang A2
Cost to build  $1,600.00

2001 Photo

No Picture
ID: 2103  Block Number  10725
Land Owner  Ngem Phon
GPS  0473993E, 1198134N
Location  Takeo, Treang, Pram Bei Mum, Prey Chheu Teal
Structure type  Pet B3
Cost to build  $1,050.00

2001 Photo

ID: 2050  Block Number  40780
Land Owner  Cheng Sok
GPS  0478981E, 1199587N
Location  Takeo, Treang, Pram Bei Mum, Trapeang Leuk
Structure type  Kantang A2
Cost to build  $1,000.00

2001 Photo

ID: 1795  Block Number  40490
Land Owner  Sok Vann
GPS  0476676E, 1207653N
Location  Takeo, Treang, Prey Sloek, So Chan
Structure type  Pet B2
Cost to build  $700.00

2001 Photo
ID: 1743  Block Number  50403
Land Owner  Ouch Sarte
GPS  0475994E, 1210130N
Structure type  Kantang A1
Location  Takeo, Treang, Roneam, Kok Khmorng
Cost to build  $1,500.00
2001 Photo  

ID: 2204  Block Number  40621
Land Owner  Khun Sem
GPS  0480410E, 1196186N
Structure type  Kantang A2
Location  Takeo, Treang, Tralach, Poun
Cost to build  $1,400.00
2003 Photo  

ID: 2217  Block Number  40834
Land Owner  Nhem Sen
GPS  0480477E, 1196023N
Structure type  Kantang A1
Location  Takeo, Treang, Tralach, Poun
Cost to build  $1,000.00
2003 Photo  

No Picture  

Thursday, November 13, 2003
ID: 2215  Block Number 40832
Land Owner  Van Phon
GPS 0480460E, 1196051N
Location  Takeo, Treang, Tralach, Poun
Structure type  Kantang A2
Cost to build  $1,600.00
2001 Photo

ID: 2212  Block Number 40829
Land Owner  Ses Tiht
GPS 0480451E, 1196095N
Location  Takeo, Treang, Tralach, Poun
Structure type  Kantang A1
Cost to build  $10,000.00
2001 Photo

ID: 2211  Block Number 40828
Land Owner  Un Chheng
GPS 0480412E, 1196096N
Location  Takeo, Treang, Tralach, Poun
Structure type  Kantang A1
Cost to build  $4,000.00
2001 Photo
ID: 2207   Block Number 40824
Land Owner    Morch Sambo
GPS 0480419E, 1196160N
Location     Takeo, Treang, Tralach, Poun
Cost to build $1,400.00

ID: 2210   Block Number 40827
Land Owner    Khan Ro
GPS 0480430E, 1196136N
Location     Takeo, Treang, Tralach, Poun
Cost to build $1,600.00

ID: 2218   Block Number 10751
Land Owner    Sang Saret
GPS 0480474E, 1195972N
Location     Takeo, Treang, Tralach, Trapeang Chhuk
Cost to build $400.00
ID: 2220  Block Number 10753
Land Owner Srey Savorn
GPS 0480469E, 1195968N
Location Takeo, Treang, Tralach, Trapeang Chhuk
Cost to build $800.00
2001 Photo

ID: 2221  Block Number 10754
Land Owner Cheb Leng
GPS 0480477E, 1195949N
Location Takeo, Treang, Tralach, Trapeang Chhuk
Cost to build $1,300.00
2001 Photo

ID: 2232  Block Number 10765
Land Owner Nget Sam ul
GPS 0480557E, 1195796N
Location Takeo, Treang, Tralach, Trapeang Chhuk
Cost to build $1,500.00
2001 Photo

No Picture
ID: 2119  Block Number: 10752
Land Owner: Kong Yun

GPS: 0480473E, 1195974N  Structure type: Kantang A1
Location: Takeo, Treang, Tralach, Trapeang Chhuk  Cost to build: $1,600.00

2001 Photo

2003 Photo
ROYAL GOVERNMENT OF CAMBODIA
Inter-Ministerial Resettlement Committee

Greater Mekong Subregion Transmission Project

220 kV Transmission Line from Vietnam
to Phnom Penh via Takeo

PUBLIC INFORMATION BOOKLET

November 2003
QUESTION: WHAT IS THE 220 kV TRANSMISSION LINE FROM VIETNAM TO PHNOM PENH VIA TAKEO

ANSWER: The project is 110 km long 220 kV Transmission Line bringing electricity from Vietnam to a new Sub-Station (West Phnom Penh) in Phnom Penh Municipality, through Takeo, Kandal, and Kampong Speu Provinces. Within Phnom Penh Municipality, there are two 115 kV transmission lines, linking the West Phnom Penh Sub-Station to the existing transmission line to the west of the city. Along the way from Vietnam there is a Sub-Station in Takeo. Some electrification will also be provided to communities between Vietnam and Phnom Penh.

1. QUESTION: WILL THE TRANSMISSION LINE AFFECT US?

ANSWER: The design and construction of the transmission line will attempt to avoid or at least minimize the impacts on the communities along its. Based on the initial census and inventory of potential losses of physical assets conducted in 2000 and updated in 2003, there are some affected houses, residential and agricultural land and other properties of the people at the two Sub-Station sites and along the Corridor of Impact. During detailed design, these potential effects may be avoided or minimized since the actual alignment will be determined at that time and through further consultation with you and the rest of the local communities. After the detailed design, the area that will be affected by the Project will be marked on the ground and houses will be marked so affected persons (PAPs) will know that they will be affected.

In case the effects on land, houses and structures can not be avoided, PAPs will be properly compensated in cash or in kind for their land, houses, structures, crops and trees and even communal properties in order for them to restore their lost assets, resource or income. Rehabilitation assistance will also be provided to PAPs who will be required to relocate in another location within their village.

2. QUESTION: WHAT IF MY LAND WILL BE AFFECTED BY THE TRANSMISSION LINE?

ANSWER: For affected land, compensation shall be in the form of cash at current market value.

3. QUESTION: DO WE NEED TO HAVE A LAND TITLE IN ORDER TO BE COMPENSATED?

ANSWER: No. Lack of formal legal rights to land does not prevent any PAPs from receiving compensation and rehabilitation assistance. Those PAPs who have been provided with users rights or any form of written or verbal agreements to utilize the land are entitled to compensation and assistance.

4. QUESTION: DOES COMPENSATION APPLY TO MY AFFECTED HOUSES OR STRUCTURES?
ANSWER: Yes. Houses and structures that will be affected by the Project shall be compensated at replacement cost without deduction for depreciation or salvageable materials in order for you to rebuild a replacement structure.

5. QUESTION: WHAT ABOUT MY CROPS AND TREES?

ANSWER: Affected crops and trees will be compensated at current market value. Compensation for crops will be based on the anticipated harvest at market value while trees will be based on type, age and productivity.

6. QUESTION: WHAT ABOUT OUR COMMON PROPERTY?

ANSWER: For common property resources, the affected land will be replaced in areas identified in consultation with affected communities and relevant organizations.

7. QUESTION: HOW DO YOU DETERMINE REPLACEMENT COST OR CURRENT MARKET VALUE FOR OUR LAND AND OTHER ASSETS?

ANSWER: To ensure that the rates reflect actual replacement costs or current market value, the Project has carried out a Replacement Cost Study as an independent and objective study of the value of land, structure and other types of losses of what is now the Study Phase for the Project. The established rates that will be proposed during the Design Phase of the Project must be acceptable to both PAPs and the Government.

8. QUESTION: IN CASE THERE WILL BE RELOCATION OF HOUSES OR BUSINESS INVOLVED, HOW CAN THE PROJECT HELP ME REBUILD MY HOUSE DURING RELOCATION?

ANSWER: Apart from the compensation for loss of land and other assets at replacement cost, the Project shall ensure that the standard of living of PAPs is maintained or better improved after the Project. Therefore, the Project shall provide mitigation and subsistence allowance to relocating PAPs.

- **Housing Relocation Allowance** of US $40 or equivalent to 40 kg of rice per household for three (3) months, whichever is greater will be provided to relocating PAPs in order to transport household effects, salvaged and new building materials to new sites and to build new homes. There will also be a US$ 40 allowance for transportation expenses.

- **Business Relocation Allowance** of US$ 40 or equivalent to 40 kg of rice per household for three (3) months, for business that will be required to close down during the relocation period. A lump sum amount will be provided to small shops while big businesses have to provide their business income statement. For employees, cash compensation for lost wages for each day they cannot work while business is reorganising at new site.

- **Special Assistance for Socially or Economically Vulnerable Households** like the very poor or households headed by the aged, women, disabled without support will be entitled to additional special allowances amounting to US$ 20 per household based on identified needs and priorities. If the
household has several levels of vulnerability they will receive US$ 20 for each condition. For example, a very poor household, headed by a woman will receive US$ 40.

9. QUESTION: DOES THAT MEAN ANYBODY IN OUR COMMUNITY CAN CLAIM FOR COMPENSATION?

ANSWER: No. Entitled PAPs are those persons who will have been surveyed during the Detailed Measurement Survey. The Cut-off-Date for determining eligibility for compensation shall be at the completion the PAP Census that will take place after Detailed Design and pegging of the COI and Sub-Station sites and at its approval by the ADB, World Bank and RGC. Persons who encroach the area after the Cut-off-Date will not be entitled to compensation or any other form of resettlement assistance.

10. QUESTION: DO WE NEED TO CLEAR THE AFFECTED AREA IMMEDIATELY ONCE OUR LAND, HOUSES, OR STRUCTURES HAVE BEEN IDENTIFIED AS AFFECTED?

ANSWER: No. Clearing the Project area will only take place after PAPs have received compensation for affected land within the COI and other lost assets. After the PAP has acknowledged receipt of payment, the Project shall provide a reasonable time and assistance for PAPs to clear the area in order for construction activities to commence.

11. QUESTION: DO WE NEED TO PAY ANY ADMINISTRATIVE OR SERVICE FEES TO THE PROJECT ONCE WE RECEIVE OUR COMPENSATION?

ANSWER: No. The PAPs are not allowed to pay any service fees or donations. PAPs who are asked for service fees or donations by any government or Project staff in the area must report directly to the Provincial authority, the Project Management Organization, EDC, or to the Independent Monitoring Organization (IMO), which is a non-governmental organization (NGO) hired by the supervising engineer to monitor the Project’s resettlement activities.

12. QUESTION: IF THERE WILL BE DISAGREEMENTS OR PROBLEMS THAT ARISE DURING PROJECT IMPLEMENTATION SUCH AS COMPENSATION, TECHNICAL AND GENERAL PROJECT-RELATED DISPUTES? DO I HAVE THE RIGHT TO VOICE OUT MY COMPLAINT?

ANSWER: Yes. Any PAP may file a complaint. The PAPs may present their complaints to the concerned local administrative officials and resettlement committees. The complaint can be filed first at the village level and can be elevated to the highest or provincial level if the PAP is not satisfied with the decision made by the village and district level committee. PAPs will be exempted from all taxes, administrative and legal fees.

Attempts will be made to settle the issues at the village level through community consultation, involvement of the Resettlement Plan and Environment Coordinator (RPEC) hired by the supervising engineer, and NGOs or facilitators if required. The
concerned resettlement committees will properly document all complaints and resolutions.

13. QUESTION: WHEN IS THE PROJECT EXPECTED TO COMMENCE?

ANSWER: The Project will start soon after Asian Development Bank and World Bank approval, which may be early 2004. It is expected to take about 18 months to complete.

14. QUESTION: AS A RESIDENT OF ONE OF THE AFFECTED PROVINCES, WHAT CAN I DO TO HELP?

ANSWER: We would like you, both men and women, to participate fully in all consultation meetings and other Project-related activities to ensure that you are fully informed and your view are known and taken into account. Your active participation during the survey, detailed design and implementation will allow us to determine measures to mitigate impacts, to identify problems or potential problems, and to identify methods of responding immediately to mitigate these problems.

15. QUESTION: HOW WILL YOU KNOW IF THE OBJECTIVES OF THIS PROJECT ARE MET?

ANSWER: The Ministry of Industry and Mines (MIME) will monitor all Project activities. An Independent Monitoring Organization (IMO) will be engaged by the supervising engineer (both for design and implementation) to monitor and report on resettlement implementation and recommend solutions to problems that PAPs may raise. Quarterly Reports will be prepared and submitted to IRC, ADB and MIME. A post-resettlement impact evaluation will also be undertaken to assess whether impacts of the Project have been mitigated adequately and the pre-Project standard of living of PAPs has been restored as a result of the Project’s resettlement implementation.

The ADB and World Bank will also monitor these activities in their regular supervision missions during the Project’s implementation.

If you have further queries and suggestions, please call or see us at:
PMO1  (and at Provincial Governor’s Office for Takeo, Kandal, and Kampot Speu Provinces for 220 kV Line or for Substation in Phnom Penh Municipality)
PMO2  (Phnom Penh Municipality for 115 kV line)
APPENDIX G

ESTIMATE OF COMPENSATION COSTS, BASED ON REPLACEMENT COST STUDY
### Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
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<td>Transmission line length km 220 kV line</td>
<td>km</td>
</tr>
<tr>
<td>Transmission line length km 115 kV line</td>
<td>km</td>
</tr>
<tr>
<td>Transmission line length total</td>
<td>km</td>
</tr>
<tr>
<td>Width of Corridor of Impact (COI)</td>
<td>m</td>
</tr>
<tr>
<td>Total Area of Corridor of Impact (COI)</td>
<td>ha</td>
</tr>
</tbody>
</table>

### I. Land acquisition

1. **Transmission Towers 220 kV Line**
   - **Area per Tower**
     - Agricultural: m² 100
     - Residential: m² 163,345
   - **Tower spacing**
     - Agricultural: m 300
     - Residential: m 370
   - **Number of Towers**
   - **Area of Land for Towers (Residential)**
     - Agricultural: m² 37,000
     - Residential: m² 2.00
   - **Area for Corridor of Impact:**
     - Agricultural: m² 70,195
     - Residential: m² 163,345
   - **Corridor of Impact Land value:**
     - Agricultural: $/m² 0.5
     - Residential: $/m² 2.00
   - **Cost of Land 220 kV Towers Total**
     - $435,787.50

2. **Transmission poles 115 kV Line**
   - **Area per Pole**
     - Agricultural: m² 4
     - Residential: m² 2.00
   - **Pole spacing**
     - Agricultural: m 300
   - **Number of Poles**
   - **Area of Land for Poles (Residential)**
     - Agricultural: m² 240
     - Residential: m² 2.00
   - **Pole Land Value**
     - Agricultural: $/m² 0.5
     - Residential: $/m² 2.00
   - **Area for Corridor of Impact:**
     - Agricultural: m² 3,450
     - Residential: m² 163,345
   - **Corridor of Impact Land value:**
     - Agricultural: $/m² 0.5
     - Residential: $/m² 2.00
   - **Cost of land 115 kV poles total**
     - $7,380

**Sub-Total cost for towers and poles (1+2)**

$443,167.50

3. **Land for Sub-Stations**

   - **West Phnom Penh Sub-Station Area:**
     - Agricultural: M² 48,400
     - Residential: M² 15,000
   - **WPP Road length**
     - Agricultural: M 500
   - **WPP Road width**
     - Agricultural: M 10
   - **Road area WPP(Residential Land)**
     - Agricultural: M² 5,000
   - **Total area WPP Sub + Road**
     - Agricultural: M² 68,400
   - **WPP Land value:**
     - Agricultural: $/m² $0.5
     - Residential: $/m² $2.00
   - **Cost of land WPP Sub-Station + Road**
     - $84,200

   - **Takeo Sub-station Area:**
     - Agricultural: M² 46,000
     - Residential: M² 20,150
   - **Takeo Road length**
     - Agricultural: M 200
   - **Takeo Road width**
     - Agricultural: M 10
   - **Takeo Road area(Residential)**
     - Agricultural: M² 2,000
   - **Total area Takeo Sub + Road**
     - Agricultural: M² 68,150

**Cost of land WPP Sub-Station + Road**

$84,200

---

Inter-Ministerial Resettlement Committee
Resettlement Unit
<table>
<thead>
<tr>
<th>Takeo land value:</th>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Agricultural $/m²</td>
<td>$0.5</td>
<td></td>
</tr>
<tr>
<td>Residential $/m²</td>
<td>$2.00</td>
<td></td>
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</table>

Cost of land for Takeo Sub-Station + Road

<table>
<thead>
<tr>
<th>Sub-Total (3) Cost of Land for Sub-Stations</th>
</tr>
</thead>
<tbody>
<tr>
<td>$131,500</td>
</tr>
</tbody>
</table>

**TOTAL (I) COST FOR LAND ACQUISITION (1+2+3)**

$574,667.50

II. Removal of Structures, Trees etc

1. **Number of Houses to be moved**
   - Within same block of land: h. h 48
   - Requiring new block of land: h. h 97

   Total Number of Houses: h. h 145

   - House Type 1
     - sqm. 1,260
   - House Type 2
     - sqm. 3,396
   - House Type 3
     - sqm. 242
   - House Type 4
     - sqm. -

   Compensation Rate for Houses:
   - House Type 1 $/sqm. 4.50
   - House Type 2 $/sqm. 12.00
   - House Type 3 $/sqm. 85.00
   - House Type 4 $/sqm. 140.00

   Sub-Total (1) Replacement Cost for Houses $66,992

2. **Resettlement Allowances**
   - Relocation expenses $/AP $40
   - Number of Aps 101

   Sub-Total for Resettlement Allowances 4,040

3. **Cost of living and disturbance allowance during re-establishment period**
   - Rate $/month /HH $40
   - Number of households 168

   Sub-Total (3) for Cost of living allowance $6,720

4. **Additional payments for vulnerable groups**
   - Number of Vulnerable households 25
     - Vulnerability allowance $20

   Sub-Total (4) compensation for vulnerability $500

5. **Removal of trees**
   - Bamboo Number 187
     - Cost per tree $/tree 5.00
   - Banana Number 872
     - Cost per tree $/tree 5.00
   - Coconut Number 512
     - Cost per tree $/tree 15.00
   - Ampel Number 94
     - Cost per tree $/tree 5.00
   - Ampel Barang Number 20
     - Cost per tree $/tree 5.00
   - Ampel Toek Number 104
     - Cost per tree $/tree 5.00
   - Chan Number 1
     - Cost per tree $/tree 5.00
   - Kamping Reach Number 5
     - Cost per tree $/tree 15.00

Inter-Ministerial Resettlement Committee
Resettlement Unit
<table>
<thead>
<tr>
<th>Location</th>
<th>Number</th>
<th>Cost per tree $/tree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kantuo Number</td>
<td>6</td>
<td>5.00</td>
</tr>
<tr>
<td>Kawit Number</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Knol Number</td>
<td>103</td>
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<tr>
<td>Kokor Number</td>
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<tr>
<td>Kor Number</td>
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<tr>
<td>Krasang Number</td>
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<td>Makak Number</td>
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<tr>
<td>Mean Number</td>
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<tr>
<td>Pring Number</td>
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</tr>
<tr>
<td>Sangke Number</td>
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<tr>
<td>Sdao Number</td>
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<td>Sieng Number</td>
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</tr>
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<td>Trabek Number</td>
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<td>Toeuk Dors Number</td>
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<tr>
<td>Eucalyptus Number</td>
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<tr>
<td>Lemon Number</td>
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<tr>
<td>Orange Number</td>
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<tr>
<td>Papaya Number</td>
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<td></td>
</tr>
<tr>
<td>Sugar Cane Number</td>
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<tr>
<td>Sugar Palm Number</td>
<td>875</td>
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</tr>
<tr>
<td>Svay Chanty Number</td>
<td>71</td>
<td></td>
</tr>
</tbody>
</table>

Sub-Total (5) compensation cost for trees $62,417.50

TOTAL COST (II) FOR REMOVAL OF STRUCTURES, TREES etc. (1+...+5) $140,669.50

### III. Temporary Construction Impacts

Inter-Ministerial Resettlement Committee
Resettlement Unit
1. **Crop damage during construction & Interference with field preparation and planting**

   This only affects the 220 kV line as the 115 kV line is mainly along road alignment and has minor impact on cropping.

   **Number of towers**: no 370

   Although tower is only at most 10 m x 10 m, assume that the whole field that the tower is in will be lost to production and assume average field size 0.4 ha.

   **Total area subject to crop loss**: ha 168

   **Rice yield**: T/ha 2.5

   **Crops/year**: 1

   **Annual yield**: t/year 2.5

   **Value of paddy rice**: $/t 200

   **Annual value of paddy rice**: $/ha 500

   **Lost production**: $/year 84,000

   **Number of years for construction for any given section**: 1

   **Sub-Total (1) compensation for lost production at tower sites**: $84,000

2. **In addition there will be disturbance to other property due to access being created to the tower sites**

   *(Assumed all access and activity along COI without road construction; no access from sides).*

   **At worst, assume a track running full length of line**: km 110

   **Width of access track**: M 3

   **Area disturbed**: ha 33

   **Cost of land**: $/m² 0.50

   **Sub-Total (2) compensation for lost production at access to tower sites**: $16,500

3. **Damage to field, bund walls, drains, channels etc**

   **Number of farmers**: 4,000

   **Payment per farmer each time repair needed**: $50

   **Number of repairs needed per year?**: 1

   **Cost per year**: $200,000

   **Number of years for construction for any given section**: 2

   **Sub-Total (3) compensation for damage to fields etc**: $400,000

   *(To be made good by the contractor)*

4. **Damage to communal infrastructure**

   **Damage to public roads (village and rural roads)**

   **Length of road requiring repair**: M 4,000

   **Cost of repair**: $/m 2.00

   **Sub-Total (4) cost of road repair**: $8,000

   *(Assumed that no upgrade of existing road needed (land acquisition, moving back fences, trees etc.). Also to be made good by contractor)*

   **TOTAL (III) COST FOR TEMPORARY CONSTN IMPACTS (1+...+4)**: $508,500

IV. **Independent Monitoring Organization**

   **TOTAL (IV) COST FOR INDEPENDENT MONITORING ORGANIZATION**: $90,000

VI. **Incremental Administration**

   **TOTAL (VI) COST FOR INCREMENTAL ADMINISTRATION**: $300,000

   **TOTAL COMPENSATION & ADMINISTRATION COSTS (I+...+VI)**: $1,613,837

   **CONTINGENCY**: 20% 322,767.40

   **GRAND-TOTAL WITH CONTINGENCY**: $1,936,604.40
APPENDIX H

TERMS OF REFERENCE FOR INDEPENDENT MONITORING ORGANIZATION (IMO)
APPENDIX I
TERMS OF REFERENCE FOR RP ENVIRONMENTAL COORDINATOR (RPEC)
APPENDIX J

TERMS OF REFERENCE FOR TREES COST ASSESSMENT AND INCOME IMPACTS AND REMEDIATION STUDY
APPENDIX K

TERMS OF REFERENCE FOR SUBSTATION LAND FILL STUDY