SECTION X1—X1

EXCAVATION PLAN AT X-X

M (CG TO CG AT LEVEL X-X)

GROUND LEVEL

EXCAVATION VOLUME = 228,115 Cu.M
CONCRETE (1:1.5:3) = 24,452 Cu.M
CONCRETE (1:5:6) = 3,297 Cu.M
REINFORCEMENT = 1900.591 Kgs.

NOTE:
1. DRAWING NOT TO SCALE.
2. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE STATED.
3. REINFORCED BAR USED Fe 415 CONFORMING TO IS 1785–1985.
4. MIX PROPERTIES CONFORMING TO IS 456–2000.
5. CONCRETE MIX USED GRADE M-20 (NOMINAL MIX 1:1.5:3)
   LEAN CONCRETE MIX USED GRADE M-10 (NOMINAL MIX 1:3:6)
6. WHENVENESS NECESSARY TO CLEAR STUB AND CLEAR
   STIRRUPS AND BARS ARE TO BE ADJUSTED AT SITE.
7. CLEAR COVER TO THE MAIN REINFORCEMENT BARS SHALL BE
   50MM UNLESS OTHERWISE SPECIFIED.
8. FOR CLEAR AND STUB TEMPLATE DETAILS PLEASE REFER
   RESPECTIVE STUB ORG.

BIHAR STATE POWER TRANSMISSION COMPANY LTD

DESCRIPTION

220KV D/C "DD+0/3/6" TOWER
FOUNDATION DRAWING OF TYPE - PS

BAR BENDING SCHEDULE FOR FOUNDATION

<table>
<thead>
<tr>
<th>MARK</th>
<th>SHAPE OF THE BAR</th>
<th>DIA (mm)</th>
<th>LENGTH (mm)</th>
<th>Nos.</th>
<th>Unit We (Kg/m)</th>
<th>Wt./Leg. (Kg)</th>
<th>Wt./Tower (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td></td>
<td>360</td>
<td>3960</td>
<td>50</td>
<td>0.888</td>
<td>203.955</td>
<td>810.82</td>
</tr>
<tr>
<td>B</td>
<td></td>
<td>460</td>
<td>2388</td>
<td>12</td>
<td>0.888</td>
<td>29.687</td>
<td>118.748</td>
</tr>
<tr>
<td>C</td>
<td></td>
<td>360</td>
<td>4184</td>
<td>28</td>
<td>0.888</td>
<td>118.892</td>
<td>475.568</td>
</tr>
<tr>
<td>D</td>
<td></td>
<td>3000</td>
<td>3350</td>
<td>8</td>
<td>3.854</td>
<td>103.287</td>
<td>413.148</td>
</tr>
<tr>
<td>E</td>
<td></td>
<td>510</td>
<td>2190</td>
<td>13</td>
<td>0.390</td>
<td>11.103</td>
<td>44.413</td>
</tr>
<tr>
<td>F</td>
<td></td>
<td>840</td>
<td>1622</td>
<td>13</td>
<td>0.390</td>
<td>8.223</td>
<td>32.894</td>
</tr>
</tbody>
</table>

TOTAL REINFORCEMENT = 1900.591 Kgs.

QUANTITIES/TOWER

TOWER SLOPE TAN ALPHA = 0.245256

EXCAVATION PLAN DETAILS

LEVEL | STUB | CG OF STUB | P | M | N | CLEAN DETAILS
------|------|------------|---|---|---|----------------|
+0M   | HT30*130*10 | 35.9 | 12113 | 13351 | 18681 | NO. OF PARTS 74 BOLTS/FAR
+3M   | HT30*130*10 | 35.9 | 13358 | 14823 | 20963  |
+6M   | HT30*130*10 | 35.9 | 15056 | 16294 | 23043  |

THE FOUNDATION HAS BEEN DESIGNED FOR THE FOLLOWING PARAMETERS:

TYPE OF SOIL : PS
UNIT WEIGHT : 1440/940 Kg/Cu.M
BEARING CAPACITY : 1367 Kg/Sq.M
ANGLE OF REPOSE : 30/15 Degrees
WATER TABLE : 0.75M TO 1.5M BELOW G.L

DRAWN BY
CHECKED BY
APPROVED BY

DRG NO 220KV-D/C+0/3/6-Fdn-PS-43

SHEET NO 1–1

REV. 0