1. This tender refers also to optional projects, which may be applied up to 3 years from signing the contract in the base stage.

2. **NAME OF PROJECTS**
   - "Nahal Tzofim" 170 KV Indoor Metalclad SF6 Gas Insulated Switchgear.
   - "Bikurim" 170 KV Indoor Metalclad SF6 Gas Insulated Switchgear.
   - "Givataim" 170 KV Indoor Metalclad SF6 Gas Insulated Switchgear.
   - "Beit Halohem" 170 KV Indoor Metalclad SF6 Gas Insulated Switchgear.
   - "Zichron Yaakov" 170 KV Indoor Metalclad SF6 Gas Insulated Switchgear.

3. **LOCATION:**
   - 170 kV "Nahal Tzofim" substation – Israel.
   - 170 kV "Bikurim" substation – Israel.
   - 170 kV "Givataim" substation – Israel.
   - 170 kV "Beit Halohem" substation – Israel.
   - 170 kV "Zichron Yaakov" substation – Israel.

4. **SCOPE OF WORK AND SUPPLY**

Design, develop, manufacture, cooperate with others where necessary, factory test, supply all relevant civil engineering and electromechanical information necessary for the complete design of the building and for all other purposes linked with proper operation as well as for commissioning and maintenance preserve, pack and furnish (FCA /FOB) 170 KV Indoor Metal clad SF₆ GIS, furnish recommended spare parts and a complete set of maintenance and repair tools, test and verify equipment on site, provide technical guidance and assistance, as required, all in accordance with this Specification as detailed hereunder. The offered type of GIS shall be a proven design (not a prototype) with high experience in work.

5. **Option Projects**

5.1. **Option 1**
5.1.1. 170kV GIS for "Nahal-Tzofim" substation (one phase encapsulated, double bus bar scheme) including 9 (nine) Circuit Breaker bays, acc. to SLD no. AR-4460/7, layouts & sections dwg. no. T149E-53_06_01 & T149E-54_07_01.

5.1.2. 170kV GIS for "Bikurim" substation (one phase encapsulated, double bus bar scheme) including 5 (five) Circuit Breaker bays, acc. to SLD no. AR-4438/6, layouts & sections dwg. no. T20E-23-04-01.

5.1.3. 170kV GIS for "Givataim" substation (one phase encapsulated, double bus bar scheme) including 7 (seven) Circuit Breaker bays, acc. to SLD no. AR-4423/8, layouts & sections dwg. no. T120E-50_04_01.

5.1.4. 170kV GIS for "Beit-Halohem" substation (one phase encapsulated, double bus bar scheme) including 7 (seven) Circuit Breaker bays, acc. to SLD no. AR-4474/6,

5.1.5. 170kV GIS for "Zichron Yaakov" (one phase encapsulated, double bus bar scheme) including 7 (seven) Circuit Breaker bays, acc. to SLD no. AR-4526/1,
5.2. **Extension**

5.2.1. 170kV GIS for "Givataim" substation (one phase encapsulated, double bus bar scheme) including 2 (two) Circuit Breaker bays, acc. to SLD no. AR-4423/8, layouts & sections dwg. no. T120E-50_04_01.

5.2.2. 170kV GIS for "Beit-Halohem" substation (one phase encapsulated, double bus bar scheme) including 2 (two) Circuit Breaker bays, acc. to SLD no. AR-4474/6,

5.2.3. 170kV GIS for "Zichron-Yaakov" substation (one phase encapsulated, double bus bar scheme) including 2 (two) Circuit Breaker bays, acc. to SLD no. AR-4526/1,

11.5. **Type of Bays, Accessories and Appurtenances**

Manufacturer shall supply the following types of SF₆ bays for 170 kV Gas Insulated Switchgear one phase encapsulated:

11.5.1. **ITEM 1** - LINE BAY FOR UNDERGROUND CABLE CONNECTION (3,150 A) WITH A SINGLE CONNECTION (Z2) AND CURRENT TRANSFORMER T1.

11.5.2. **ITEM 2** - LINE BAY FOR OVERHEAD LINE CONNECTION (3,150 A) AND CURRENT TRANSFORMER T1.

11.5.3. **ITEM 3** - TRANSFORMER BAY FOR OVERHEAD LINE CONNECTION (3,150 A) AND CURRENT TRANSFORMER T2.

11.5.4. **ITEM 4** - TRANSFORMER BAY FOR UNDERGROUND CABLE CONNECTION (3150 A) WITH A SINGLE CONNECTION (Z2) AND CURRENT TRANSFORMER T2.

11.5.5. **ITEM 5** - LINE BAY FOR UNDERGROUND CABLE CONNECTION (3,150 A) WITH TWO CONNECTIONS (Z3) AND CURRENT TRANSFORMER T1.

11.5.6. **ITEM 6** - TRANSVERSAL COUPLER BAY (4000 A)

11.5.7. **ITEM 7** - BUS BAR MEASURING AND EARTHING BAY

11.5.8. **ITEM 8** – DISCONNECTING BAY FOR SUBSTATION EXTENSION (4,000A).

11.5.9. **ITEM 9**– GIS INTERFACE FOR EXTENSION (4000 A).

11.5.10. **ITEM 10** - All ACCESSORIES, appurtenances required for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF₆ gas etc., as specified in Annexure "B" of this Specification.
11.5.10.1. **ITEM 10.1** - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components.

11.5.10.2. **ITEM 10.2** - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable).

11.5.10.3. **ITEM 10.3** - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections.

11.5.10.4. **ITEM 10.4** – Earthing system including connections from GIS and control cubicle to Earthing system.

11.5.10.5. **ITEM 10.5** – First filling of SF6 gas.

11.5.11. **ITEM 11** – One set of recommended spare and renewal parts and materials.

11.5.12. **ITEM 12** – One set of recommended maintenance and repair tools.

11.6. **Option 1**

11.6.1. **170kV Nahal-Tzofim GIS**

The substation shall include 10 (ten) bays and the following items/quantities:

- Four (4) Line bays for underground cable connection (3,150 A) with a single connection (Z2) and current transformer T1. **ITEM 1** – bays no. B2, B4, B7, B9.
- Four (4) Transformer bays (56 MVA, 161/13.8/13.8 kV) for overhead line connection (3,150 A) and current transformer T2 **ITEM 3** – bays no. B1, B3, B8, B10.
- One (1) Transversal coupler bay (4,000) **ITEM 6** – bay no. B6
- One (1) Bus bar measuring and Earthing bay **ITEM 7** – bay no. B5
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification **ITEM 10** including:
  - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components **ITEM 10.1**.
  - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) **ITEM 10.2**.
  - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections **ITEM 10.3**.
  - Earthing system including connections from GIS and control cubicle to Earthing system **ITEM 10.4**.
  - First filling of SF6 gas **ITEM 10.5**.
- One (1) set of recommended spare and renewal parts and materials **ITEM 11**.
- One (1) set of recommended maintenance and repair tools **ITEM 12**.

The delivery time is limited to 12 (twelve) months after placing of the order.

11.6.2. **170kV Bikurim GIS**

The substation shall include 6 (six) bays and the following items/quantities:
- Two (2) Line bays for underground cable connection (3,150 A) with a single connection (Z2) and current transformer T1. (ITEM 1) – bays no. B1, B2.
- Two (2) Transformer bays (50/75 MVA, 161/24 kV) for underground cable connection (3,150 A) with a single connection (Z2) with current transformer T2 (ITEM 4) – bays no. B3, B4.
- One (1) Transversal coupler bay (4,000A) (ITEM 6) – bay no. B6
- One (1) Bus bar measuring and earthing bay (ITEM 7) – bay no. B5
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  - Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  - First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.

11.6.3. **170kV Givataim GIS**

The substation shall include 8 (eight) bays and the following items/quantities:

- Two (2) Line bays for underground cable connection (3,150 A) with a single connection (Z2) and current transformer T1. (ITEM 1) – bays no. B2, B4.
- Four (4) Transformer bays (75 MVA, 161/24 kV) for underground cable connection (3,150 A) with a single connection (Z2) with current transformer T2 (ITEM 4) – bays no. B1, B3, B6, B8.
- One (1) Transversal coupler bay (4,000A) (ITEM 6) – bay no. B5
- One (1) Bus bar measuring and earthing bay (ITEM 7) – bay no. B6
- One (1) Disconnecting bay for substation extension (ITEM 8) – bay no. B11
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  - Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  - First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.
11.6.4. **170kV Beit-Halohem GIS**

The substation shall include 8 (eight) bays and the following items/quantities:

- Two (2) Line bays for underground cable connection (3,150 A) with two connections (Z3) and current transformer T1. (ITEM 5) – bays no. B1, B5.
- Four (4) Transformer bays (75 MVA, 161/24 kV) for underground cable connection (3,150 A) with a single connection (Z2) with current transformer T2 (ITEM 4) – bays no. B2, B4, B6, B8.
- One (1) Transversal coupler bay (4,000 A) (ITEM 6) – bay no. B3.
- One (1) Bus bar measuring and earthing bay (ITEM 7) – bay no. B7.
- One (1) Disconnecting bay for substation extension (ITEM 8) – bay no. B11.
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  
  o Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  o Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  o Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  o Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  o First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.

11.6.5. **170kV Zichron Yaakov GIS**

The substation shall include 8 (eight) bays and the following items/quantities:

- Two (2) Line bays for overhead connection (3,150 A) with current transformer T1. (ITEM 2) – bays no. B1, B6.
- Four (4) Transformer bays (75 MVA, 161/24 kV) for underground cable connection (3,150 A) with a single connection (Z2) with current transformer T2 (ITEM 4) – bays no. B2, B3, B5, B8.
- One (1) Transversal coupler bay (4,000 A) (ITEM 6) – bay no. B4.
- One (1) Bus bar measuring and earthing bay (ITEM 7) – bay no. B7.
- One (1) Disconnecting bay for substation extension (ITEM 8) – bay no. B11.
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  
  o Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  o Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  o Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  o Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  o First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.
11.7. Extension Of Switchgears

11.7.1. 170kV Givataim GIS

- Two (2) Line bays for underground cable connection (3,150 A) with a single connection (Z2) and current transformer T1 (3,150 A) (ITEM 1) - bays no. B9, B10.
- One (1) GIS interface for extension (ITEM 9).
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  - Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  - First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.

11.7.2. 170kV Beit-Halohem GIS

- Two (2) Line bays for underground cable connection (3,150 A) with a two connections (Z3) and current transformer T1 (3,150 A) (ITEM 1) - bays no. B9, B10.
- One (1) GIS interface for extension (ITEM 9).
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:
  - Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).
  - Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).
  - Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).
  - Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).
  - First filling of SF6 gas (ITEM 10.5).
- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.

11.7.3. 170kV Zichron-Yaakov GIS

- Two (2) Line bays for overhead line connection (3,150 A) with current transformer T1 (3,150 A) (ITEM 2) - bays no. B9, B10.
- One (1) GIS interface for extension (ITEM 9).
- All ACCESSORIES, appurtenances needed for erection, commissioning, monitoring, control, alarm, maintenance, first filling of SF6 gas, etc, as specified in Annexure "B" of this Specification (ITEM 10) including:

App.16- 7
Indoor steel supporting structure including a complete system of personnel crossovers and platform to provide access where necessary to GIS components (ITEM 10.1).

Outdoor steel supporting structure for ducts and SF6 /air bushings outside the building (if applicable) (ITEM 10.2).

Shields and/or seals for closing the apertures in the walls of the GIS building through which pass the SF6 ducts connections (ITEM 10.3).

Earthing system including connections from GIS and control cubicle to earthing system (ITEM 10.4).

First filling of SF6 gas (ITEM 10.5).

- One (1) set of recommended spare and renewal parts and materials (ITEM 11).
- One (1) set of recommended maintenance and repair tools (ITEM 12).

The delivery time is limited to 12 (twelve) months after placing of the order.

11.8. **Components included in Items 1 to 9**

11.8.1. **ITEM 1** - Line bay for underground cable connection (3,150 A) with a single connection (Z2) and current transformer T1 (3,150 A).

11.8.2. **Nahal-Tzofim, Bikurim, Givataim**

The bay shall include the following equipment:

- Two (2) three-phase 4000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure.
- Two (2) three-phase 3150 A bus bar disconnectors (Q1 and Q2).
- One (1) three-phase low speed earthing switch (Q51).
- One (1) three-phase 3150 A circuit breaker (Q0).
- Three (3) single-phase 2000-4000/5/5/5/5A CT with four (4) cores (T1).
- One (1) three-phase low speed earthing switch (Q52).
- One (1) three-phase high speed earthing switch (Q8).
- Three (3) single-phase tubular connection units including angle pieces.
- Three (3) single-phase tubular connection units including angle pieces.
- Three (3) single-phase connections to underground cable with a single connection filled with SF6 gas (Z2).
- One (1) control cubicle and local control cabinet, including all cables to bay.
- Bellows (4,000 A).

11.8.3. **ITEM 2** – Line bay for overhead line connection (3,150 A) and current transformer T1.

11.8.3.1. **Zichron-Yaakov substation**

The bay shall include the following equipment:
- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure.
- Two (2) three-phase 3,150 A bus bar disconnectors (Q1 and Q2).
- One (1) three-phase low speed earthing switch (Q51).
- One (1) three-phase 3,150 A circuit breaker (Q0).
- Three (3) single-phase 2,000-4,000/5/5/5A CT with four (4) cores (T1).
- One (1) three-phase low speed earthing switch (Q52).
- One (1) three-phase 3,150 A disconnector (Q9).
- Three (3) single-phase voltage transformers, 161/√3/0.115/√3/0.115/√3/0.115/√3 (T5).
- One (1) three-phase high speed earthing switch (Q8).
- Three (3) single-phase tubular connection units including angle pieces.
- Three (3) single-phase outdoor bushing 3,150 A (Z1).
- One (1) control cubicle and local control cabinet, including all cables to bay.
- Bellows (4,000 A).

11.8.4. **ITEM 3** – Transformer bay for overhead line connection (3,150 A) and current transformer T2.

11.8.4.1. **Nahal-Tzofim substation**

The bay shall include the following equipment:

- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure,
- Two (2) three-phase 3,150 A bus bar disconnectors (Q1 and Q2),
- One (1) three-phase low speed earthing switch (Q51),
- One (1) three-phase 3,150 A circuit breaker (Q0),
- Three (3) single-phase 400/5/5/5/5A current transformers with four (4) cores (T2),
- One (1) three-phase high speed earthing switch (Q8),
- Three (3) single-phase tubular connection units including angle pieces,
- Three (3) single-phase outdoor bushing 3,150 A (Z1),
- One (1) control cubicle and local control cabinet including all cables to bay,
- Bellows (4,000 A).

11.8.5. **ITEM 4** – Transformer bay for underground cable connection (3,150A) with a single connection (Z2) and current transformer T2.

11.8.5.1. **Bikurim, Givataim, Beit-Halohem**

The bay shall include the following equipment:

- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure,
- Two (2) three-phase 3,150 A bus bar disconnectors (Q1 and Q2),
- One (1) three-phase low speed earthing switch (Q51),
- One (1) three-phase 3,150 A circuit breaker (Q0),
- Three (3) single-phase 400/5/5/5/5A CT with four (4) cores (T2),
- One (1) three-phase high speed earthing switch (Q8),
- Three (3) single-phase tubular connection units including angle pieces.
- Three (3) single-phase connections to underground cable with a single connection filled with SF6 gas (Z2).
- One (1) control cubicle and local control cabinet, including all cables to bay.
- Bellows (4,000 A).
11.8.6. **ITEM 5** – Line bay for underground cable connection (3,150A) with two connections (Z3) and current transformer T1.

11.8.6.1. **Beit-Halohem**

The bay shall include the following equipment:

- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure.
- Two (2) three-phase 3,150 A bus bar disconnectors (Q1 and Q2).
- One (1) three-phase low speed earthing switch (Q51).
- One (1) three-phase 3,150 A circuit breaker (Q0).
- Three (3) single-phase 2,000-4,000/5/5/5A CT with four (4) cores (T1).
- One (1) three-phase low speed earthing switch (Q52).
- One (1) three-phase 3,150 A disconnector (Q9).
- Three (3) single-phase voltage transformers, 161/√3/0.115/√3/0.115/√3/0.115/√3 (T5).
- One (1) three-phase high speed earthing switch (Q8).
- Three (3) single-phase tubular connection units including angle pieces,
- Three (3) single-phase connections to underground cable with two connections filled with SF6 gas (Z3)
- One (1) control cubicle and local control cabinet, including all cables to bay.
- Bellows (4,000 A).

11.8.7. **ITEM 6** - TRANSVERSAL COUPLER BAY (4000 A).

11.8.7.1. **Nahal-Tzofim, Bikurim, Givataim, Beit-Halohem, Zichron-Yaakov**

The bay shall include the following equipment:

- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure.
- Two (2) three-phase high speed earthing switches (Q15 and Q25),
- Six (6) single-phase voltage transformers, with 2 sec. windings, 161/√3/0.115/√3/0.115/√3/0.115/√3 kV (T15 and T25),
- One (1) control cubicle and local control cabinet including all cables to bay.
- Bellows (4,000 A).

11.8.8. **ITEM 7** – BUS BAR MEASURING AND EARTHING BAY

11.8.8.1. **Nahal-Tzofim, Bikurim, Givataim, Beit-Halohem, Zichron-Yaakov**

The bay shall include the following equipment:

- Two (2) three-phase 4,000 A bus bar modules BB1 and BB2 including disconnecting link and telescopic enclosure.
- Two (2) three-phase high speed earthing switches (Q15 and Q25),
- Six (6) single-phase voltage transformers, with 2 sec. windings, 161/√3/0.115/√3/0.115/√3/0.115/√3 kV (T15 and T25),
- One (1) control cubicle and local control cabinet including all cables to bay.

11.8.9. **ITEM 8** - Disconnecting bay for extension substation.

11.8.9.1. **Givataim, Beit-Halohem, Zichron-Yaakov**
11.8.10. **ITEM 9** - GIS interface for extension substation

11.8.10.1. **Givataim, Beit-Halohem, Zichron-Yaakov**

The interface, for extension substation, shall include six (6), single phase adapters, with partitions and gas monitoring, according to IEEE C37.122.6/2013 (4,000 A). Belongs to option stage in case of extension of the switchgear.
ONE LINE DIAGRAM OF “NAHAL ZOFIM” 170KV SF6 SWITCHGEAR
UPDATED 12/2016

GENERAL TECHNICAL DATA OF THE 170 KV GIS

1. RATED SHORT-CIRCUIT CURRENT (1 sec) – 50 kA
2. RATED PEAK WITHSTAND CURRENT – 120 kA
3. RATED CONTINUOUS CURRENT OF THE BUSBAR – 4000 A
4. RATED CONTINUOUS CURRENT TRANSFORMER & LINE S.W. – 3500 A
5. CURRENT TRANSFORMERS

<table>
<thead>
<tr>
<th>ITEM</th>
<th>CORE</th>
<th>RATED OUTPUT (VA)</th>
<th>CLASS</th>
<th>RATIO(A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>2.3 kVA 20/360</td>
<td>0.25/1/1.5-5/3</td>
<td>2000/400/6/6/6</td>
<td></td>
</tr>
<tr>
<td>T2</td>
<td>2.3 kVA 20/360</td>
<td>0.25/1/1.5-5/3</td>
<td>2000/400/6/6/6</td>
<td></td>
</tr>
</tbody>
</table>

751/625/10

PREPARED: NAME_9
CHECKED: NAME_9
DRAWN: NAME_9
EDITION: 0

APPENDIX NO. 16
SPECIFICATION SR - 141
Appendix No. 16

Specification SR - 141

Section A - A
Transformer & Line RRs

Notes
1. All dimensions in mm.
2. One-Line Diagram - see drawing 40-1420/B.

Legend
- First stage
- Final stage

Givatayim Substation
HV SF6 GIS 170
Layout
Section

App.16- 7