

# Madkour Group



## Projects Reference List

### Executive Summary of Madkour Reference List

The below is the summary of Madkour Reference List including Projects' Names in the different categories of Energy and Infra Structure followed by the project's description:

- **Substations:**

- New 6th of October substation 500/220/22 kV.
- Egypt's Future Agriculture substation (S1) 220/66/22 kV.
- New administrative capital substation (SS2) 220/22/22 kV.
- New administrative capital substation (SS3) 220/22/22 kV.
- El Masaeed substation 220/66/22 kV.
- Gardenia substation 220/22/22 kV.
- Beni-Suef cement plant substation 220/11 kV.
- El Dabaa substation 220/66/22 kV.
- Sarai substation 220/22kV.
- Mohamed Naguib substation 66/22 kV.
- Sheikh Zoied substation 66/22 kV.
- Lina substation 66/11 kV.
- Sohag Egyptian Cement Factory substation 66/11 kV.
- Egypt's Future Agriculture substation (S2) 66/22 kV.
- Imbaba substation 220/66/11 kV.
- El-Robeiky substation 66/22 kV.

- **OHTL and Cables:**

- 66kV underground interconnection cable for 40 km between El Masaeed and Sheikh Zoied substations.
- 72 km OHTL 66 kV double circuit in Mohamed Naguib.
- 40 km OHTL 66 kV double circuit in Lina farms.
- 8 Km O.H.T.L 220 kV Double circuit Galala resort to Galala city.
- 40 km OHTL 220 kV double circuit in Egypt's Future Agriculture project.
- 8 km OHTL 220 kV double circuit in Beni-Suef Cement Plant.
- 2.5 km OHTL 220 kV double circuit in Gardenia compound.
- 7 km OHTL 66 kV double circuit El-Robeiky.
- 4.8 km UG cable 220 kV double circuit in Wafaa & Amal.

- **MV Distribution Networks:**

- South Valley "Toshka Development".
- New administrative capital infrastructure Project (R1)
- New administrative capital infrastructure Project (R2)
- New administrative capital infrastructure Project (R6)

- Galala Power Infrastructure Project.
- Military Camping Complex (Kayan).
- West El Shorouk city.
  
- **Solar energy plants:**
  - Kayan rooftop 19 MW.
  - Sharm El-Sheikh 5 MW.
  - Farafra 4.5 MW.
  
- **Construction and MEP projects:**
  - Administrative Capital Electricity Distribution Company (ACEDC) building.
  - Sharm El Sheikh Museum.
  - Ambulance HQ.
  - Galala University.
  - Japanese University in Burj Al-Arab.
  
- **Water projects:**
  - South Valley “Toshka Development”.
  - El Kobba & El Tallin WWTP.
  - Extension of El Hawamdia WWTP.
  - Badr villages sewage pump stations.
  - Quessna industrial area.

## Madkour's Reference List

### Substation & cables projects

| Project Name              | El Masaeed 220/66/22 kV substation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Start (Month/YY) | End (Month/YY) |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Client Name               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                |
| Project Overview          | <p>The project objective is to construct El Masaeed 220/66/22 kV GIS substation located in in Sinai. This Package shall include on turnkey basis all deliveries and works required for this substation such as:</p> <ul style="list-style-type: none"> <li>Supply of (4) Power transformers (2x175 MVA &amp; 4x40 MVA)</li> <li>GIS switchgear and conventional type switchgear.</li> <li>Turnkey basis all deliveries and works of all communication and R.T.U. equipment required for this substation and associated remote sites.</li> </ul> <p>The scope of work includes -but not limited to-:</p> <ul style="list-style-type: none"> <li>Engineering, design, factory testing, delivery to site, loading &amp; unloading, storing, construction, installation, site testing, spare parts, testing &amp; commissioning putting into service and all works needed to complete work on turnkey bases of Masaeed 220/66/22 kV substation.</li> </ul> | Oct/20           | In Progress    |
| Project Completion Period | 14 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                |
| Contract Value            | EGP 199,127,730 + \$12,468,777                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                |
| Project Name              | Sheikh Zoied 66/22 kV substation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Start (Month/YY) | End (Month/YY) |
| Client Name               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                  |                |
| Project Overview          | <p>The project objective is to construct Sheikh Zoied substation 4X40MVA, 66/22KV (Indoor) GIS located in The Red Sea governorate in Sinai. This Package shall include on turnkey basis all deliveries and works required for this substation such as:</p> <ul style="list-style-type: none"> <li>66 kV indoor metal clad (GIS) switchgear (7- bays).</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Oct/20           | In Progress    |

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|                                  | <ul style="list-style-type: none"> <li>• 22 KV Indoor metal clad conventional type Switchgear.</li> <li>• Supply of (4) Power transformers.</li> <li>• Turnkey basis all deliveries and works of all communication and R.T.U. equipment required for this substation and associated remote sites.</li> </ul> <p>The scope of work includes -but not limited to-:</p> <ul style="list-style-type: none"> <li>• Engineering, design, fabrication, factory tests, (CIF) delivery, inland transportation, loading, unloading, erection, civil work, site tests.</li> <li>• Testing &amp; commissioning, insurance till taking over, training, and technical assistance during the warranty period.</li> </ul> |                         |                       |
| <b>Project Completion Period</b> | 14 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
| <b>Contract Value</b>            | EGP 194,447,309 + \$1,879,608                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project Name</b>              | <b>66kV underground interconnection cable for 40 km</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                       |
| <b>Project Overview</b>          | <p>The project objective is to construct the underground interconnection cable between El Masaeed 220/66/22 kV substation and Sheikh Zoied 66/22 kV substation.</p> <p>The scope of work includes -but not limited to-:</p> <ul style="list-style-type: none"> <li>• Design, supply, erection, start-up, testing, and commissioning of 66kV XLPE underground cable of cross-sectional area of 1x1200 mm<sup>2</sup> copper conductor lead sheath with all its necessary accessories and civil works for approximate length of 40 km.</li> </ul>                                                                                                                                                           | Oct/20                  | In Progress           |
| <b>Project Completion Period</b> | 14 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
| <b>Contract Value</b>            | EGP 997,866,660                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         |                       |

| Project Name              | Mohamed Naguib substation 66/22 kV with 72 km OHTL<br>66 kV double circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Start<br>(Month/YY) | End<br>(Month/YY) |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| Client Name               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | June/20             | In Progress       |
| Project Overview          | <p>The scope of work includes -but not limited to-:</p> <ul style="list-style-type: none"> <li>• Engineering, design, factory testing, delivery to site, loading &amp; unloading, storing, construction, installation, site testing, spare parts, putting into service and all plant &amp; works needed to complete work on turnkey bases of Mohamed Naguib 66/22 kV substation.</li> <li>• 42 km OHTL connecting the substation to the remote end of Al Arab El Tarfehia 66kV substation</li> <li>• 30 km OHTL connecting the substation to the other remote end EL Alamein 66kV substation.</li> </ul>                                                                                                                  |                     |                   |
| Project Completion Period | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                     |                   |
| Contract Value            | 380,000,000 EGP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                   |
| Project Name              | El Dabaa substation 220/66/22 KV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Start<br>(Month/YY) | End<br>(Month/YY) |
| Client Name               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | June/20             | In Progress       |
| Project Overview          | <p>The project objective is to construct on a turnkey bases El Dabaa S/S 220/66/22 KV 2x175 + 3x40 MVA comprising only 220, 66 kV indoor (GIS) type switchgear and the 22-kV indoor conventional type switchgear, 2x175 MVA 220/66/22 kV.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material.</li> <li>• Supply, erect and test for all local material.</li> <li>• Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> |                     |                   |

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| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | 10,830,824 USD + 128,658,301 EGP                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                       |
| <b>Project Name</b>              | <b>Sarai 220/22kV GIS substation</b>                                                                                                                                                                                                                                                                                                                                                                                                                 | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Madinat Nasr for housing and development, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                               | May/20                  | In Progress           |
| <b>Project Overview</b>          | <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Engineering, design, factory testing, delivery to site, loading &amp; unloading, storing, construction, installation, site testing, spare parts, putting into service and all plant &amp; works needed to complete work on turnkey bases.</li> <li>• Handing over the works to client and/or EETC, insurance till handing over and warranty.</li> </ul> |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | EGP 218,247,128 + USD 8,068,329                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                       |
| <b>Project Name</b>              | <b>Al Wafaa &amp; Al Amal Replacing the OHTL with 4.8 km underground cable 220kV Double circuit</b>                                                                                                                                                                                                                                                                                                                                                  | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                     | Mar/20                  | In Progress           |
| <b>Project Overview</b>          | <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Supply and installation of 220 kV underground power cables, section 1 x 2000 mm<sup>2</sup>, supply and installation of accessories, connections, cable sealing ends, link boxes and ground system, supply and installation of fiber optics cables and accessories and testing &amp; commissioning</li> </ul>                                           |                         |                       |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Contract Value</b>            | 169,000,000 EGP                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                       |

| Project Name              | New 6 <sup>th</sup> of October 500/220/22KV GIS S/S (Package A)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Start (Month/YY) | End (Month/YY) |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Client Name               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Nov/18           | Dec/19         |
| Project Overview          | <p>The scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>Engineering, designing, factory testing, site delivery, civil works, testing, and commissioning at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and technical assistance during warranty of the New 6<sup>th</sup> of October 500/220/22KV substation</li> </ul> <p>The systems including -not limited to-:</p> <ul style="list-style-type: none"> <li>The erection and putting into operation 3x750MVA transformers with its accessories.</li> <li>500 KV GIS switchgear Equipment, 500 KV Outdoor Equipment.</li> <li>220 KV GIS Switchgear Equipment, 220 KV outdoor Equipment and 22 KV Switchgear.</li> <li>Control and protection system.</li> </ul> |                  |                |
| Project Completion Period | 13 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                  |                |
| Contract Value            | EUR 10,598,227 + USD 16,014,290 + EGP 143,099,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                  |                |
| Project Name              | Lina 66/11 kV substation and 40 km OHTL 66 kV Double circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Start (Month/YY) | End (Month/YY) |
| Client Name               | Lina company, 10 <sup>th</sup> of Ramadan, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sep/18           | Apr/19         |
| Project Overview          | <p>Construct Lina substation includes 66/11 KV (2x25) MVA transformers and 20 km OHTL 66 kV Double circuit to connect Lina substation with Wadi El-Natroon industrial zone.</p> <p>The Scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>Services and installation work for the supplied imported material. And supply, erect and test for all local material.</li> <li>Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work,</li> </ul>                                                                                                                                                                                                                                                                                 |                  |                |



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|                                  | putting in operation, insurance, training, and assistance during warranty period for Lina substation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |                       |
| <b>Project Completion Period</b> | 7 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | PPA contract                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project Name</b>              | <b>Sohag Egyptian Cement Factory - 66/11 KV GIS Substation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Chengdu Design & Research Institute of Building Materials Industry Company (CDI), P.R. China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project Overview</b>          | <p>Construct Egyptian Cement GIS substation includes 2 x 45/50 MVA 66/11 kV transformers located in Sohag to face the electrical energy demand for Cement Plant built in this area.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material.</li> <li>• Supply, erect and test for all local material.</li> <li>• Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> | Jun/18                  | Feb/19                |
| <b>Project Completion Period</b> | 7 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | EUR 7,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                       |
| <b>Project name</b>              | <b>Galala Power Infrastructure Project</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
| <b>Project overview</b>          | <p>The project objective was to construct</p> <ul style="list-style-type: none"> <li>- Substation: 220/22/22 KV GIS Substation.</li> <li>- Medium Voltage Distribution Network.</li> <li>- 8 Km O.H.T.L 220 kV Double circuit AL-GALALA resort / AL-GALALA city.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                         | Dec/17                  | Nov/18                |

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|                                  | <p>The scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Engineering, design, supply of local and foreign manufactured materials, civil works, erection, testing, setting to work, putting the substation into operation</li> <li>• Civil works, supply and erection of steel, testing at site, setting to work, putting into operation the MV distribution networks and lighting systems, insurance till provisional acceptance and warranty.</li> </ul>                                                                                                                                                                    |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                       |
| <b>Contract value</b>            | EGP 445,850,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                       |
| <b>Project Name</b>              | <b>NEW ADMIN. CAPITAL Power infrastructure Project Substations: S2 - 220/22/22 KV &amp; S3 - 220/22/22 KV</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Engineering Authority of Armed Forces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                       |
| <b>Project Overview</b>          | <p>The project objective was to construct on a turnkey bases S2 - 220/22/22 KV &amp; S3 - 220/22/22 KV to face the electricity demand in the New administrative capital.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material.</li> <li>• Supply, erect and test for all local material.</li> <li>• Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> | Dec/17                  | Dec/18                |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                       |
| <b>Contract Value</b>            | EGP 850,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                       |

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|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|
| <b>Project Name</b>                      | <b>Egypt's Future Agriculture project<br/>220/66/22 kV S/S with 40 km OHTL 220 kV Double<br/>circuit and 66/22 kV S/S with 22 km OHTL 66 kV<br/>Double circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <b>Start<br/>(Month/YY)</b> | <b>End<br/>(Month/YY)</b> |
| <b>Client Name</b>                       | Egyptian Military Air Force, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                           |
| <b>Project<br/>Overview</b>              | <p>The project objective was to construct:</p> <ul style="list-style-type: none"> <li>- (S1) 220/66/22 KV GIS/AIS Substation.</li> <li>- 40 Km O.H.T.L 220 kV Double circuit Wadi Al-Natron/ RAMI EL-GAWI S1.</li> <li>- (S2) 66/22 KV GIS/AIS Substation.</li> <li>- 22 Km O.H.T.L 220 kV Double circuit RAMI EL-GAWI S1/ RAMI EL-GAWI S2.</li> </ul> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material. And supply, erect and test for all local material.</li> <li>• Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> | May/17                      | Jan/18                    |
| <b>Project<br/>Completion<br/>Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |                           |
| <b>Contract Value</b>                    | EGP 392,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                             |                           |
| <b>Project Name</b>                      | <b>Beni-Suef Cement Plant 220/11 KV GIS Substation &amp; 8<br/>KM O.H.T.L 220 kV Double circuit Beni-Suef INDUSTRIAL<br/>/ EL-ARESH CEMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>Start<br/>(Month/YY)</b> | <b>End<br/>(Month/YY)</b> |
| <b>Client Name</b>                       | Chengdu Design & Research Institute of Building Materials Industry Company (CDI), China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |                           |
| <b>Project<br/>Overview</b>              | <p>The project objective was to construct Beni-Suef for cement GIS substation includes 9x45 MVA 220/11 kV transformer located in Beni-Suef to face the electrical demand for plant built in that area.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material.</li> <li>• Supply, erect and test for all local material.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                             | Dec/16                      | Nov/17                    |

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|                                  | <ul style="list-style-type: none"> <li>Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                       |
| <b>Project Completion Period</b> | 10 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                         |                       |
| <b>Contract Value</b>            | EUR 25,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Project Name</b>              | <b>AI-ROBEIKY 66/22 KV AIS 7 Km O.H.T.L 66 kV Double circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project Overview</b>          | <p>The project objective was to construct 2x40 MVA 66/22 KV AIS S/S to face the electrical energy demand Al-ROBEIKY industrial area.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>Supply, erect and test for all local material.</li> <li>Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> <li>Supply, installation, and erection of a 66 kV double circuit OHTL to connect El-Robeiky substation to the 10<sup>th</sup> of Ramadan substation (7)</li> </ul> | Dec/16                  | Sep/17                |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Contract Value</b>            | EGP 65,999,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Project Name</b>              | <b>GARDENIA 220/22/22 KV GIS Substation &amp; Opening 2.5 km OHTL 220 kV Double circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project Overview</b>          | The project objective was to construct Gardenia GIS substation includes 2x150 MVA 220/22/22 kV transformers located in Cairo in order to face the                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sep/16                  | May/17                |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                       |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | <p>increase in the electrical energy demand in SS area and secure reliable power supply with minimum losses of transferred power.</p> <p>Also, opening the transmission line connected between Cairo West SS and Sakr Qurush SS. Replacing part of double circuits TL between Cairo East SS and Sakr Qurush SS by two underground cable.</p>                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | EGP 265,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                       |
| <b>Project Name</b>              | <b>Imbaba 220/66/11 KV GIS Substation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client Name</b>               | Egyptian Electricity Transmission Company (EETC)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                       |
| <b>Project Overview</b>          | <p>The construction of Imbaba 2x175 MVA 220/66/11 kV S/S comprising only 220, 66 kV indoor (GIS) type switchgear and the 11-kV indoor conventional type switchgear, 2x175 MVA 220/66/11 kV and 4x40 MVA 66/11 kV power transformer.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Services and installation work for the supplied imported material.</li> <li>• Supply, erect and test for all local material.</li> <li>• Engineering, designing, factory testing, site delivery, erection, testing at site, setting to work, putting in operation, insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> | Apr/16                  | Oct/16                |
| <b>Project Completion Period</b> | 6 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Contract Value</b>            | EGP 30,878,138 + USD 22,313,071                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                         |                       |

## Madkour's Reference List

### Distribution projects

| Project name              | South Valley "Toshka Development"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Start (Month/YY) | End (Month/YY) |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Client name               | National Service Products Organization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                |
| Project overview          | <p>The development of Toshka as part of the presidential project to grow wheat</p> <p>The Mechanical scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Pumps &amp; motors.</li> <li>• Priming systems.</li> <li>• Pipes and fittings.</li> <li>• Valves and joints.</li> <li>• Overhead travelling cranes.</li> <li>• Water hammer protection system.</li> </ul> <p>While the Electrical scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• MVSG.</li> <li>• Transformers and kiosks.</li> <li>• Panels.</li> <li>• Lighting system.</li> <li>• Cables.</li> <li>• Earthing systems.</li> <li>• All the necessary Civil and Architecture works.</li> </ul> | July/20          | In Progress    |
| Project Completion Period | 2 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                  |                |
| Contract value            | EGP 772,415,414                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                |
| Project name              | New administrative capital infrastructure Project (R2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Start (Month/YY) | End (Month/YY) |
| Client name               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                  |                |
| Project overview          | <p>Design, Supply, Delivery of the MV &amp; LV Distribution networks for New Administrative Capital infrastructure Project – R2.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Distribution transformer, RMUs and MVSG</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                              | Oct/19           | In Progress    |

|                                  |                                                                                                                                                                                                                                                                                                                                                           |                         |                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | <ul style="list-style-type: none"> <li>• LV &amp; MV cables.</li> <li>• LV main distribution panels (smart type).</li> </ul>                                                                                                                                                                                                                              |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
| <b>Contract value</b>            | EGP 888,830,000                                                                                                                                                                                                                                                                                                                                           |                         |                       |
| <b>Project name</b>              | <b>New administrative capital infrastructure Project (R6)</b>                                                                                                                                                                                                                                                                                             | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                       | Sep/19                  | In Progress           |
| <b>Project overview</b>          | Design, Supply, Delivery of the MV & LV Distribution networks for New Administrative Capital infrastructure Project – R6.<br>The scope of work includes -not limited to-: <ul style="list-style-type: none"> <li>• Distribution transformer, RMUs and MVSG</li> <li>• LV &amp; MV cables.</li> <li>• LV main distribution panels (smart type).</li> </ul> |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
| <b>Contract value</b>            | EGP 580,415,000                                                                                                                                                                                                                                                                                                                                           |                         |                       |
| <b>Project name</b>              | <b>New administrative capital infrastructure Project (R1)</b>                                                                                                                                                                                                                                                                                             | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                       | Jun/19                  | In Progress           |
| <b>Project overview</b>          | Design, Supply, Delivery of the MV & LV Distribution networks for New Administrative Capital infrastructure Project – R1.<br>The scope of work includes -not limited to-: <ul style="list-style-type: none"> <li>• Distribution transformer, RMUs and MVSG</li> <li>• LV &amp; MV cables.</li> <li>• LV main distribution panels (smart type).</li> </ul> |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                 |                         |                       |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                           |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|---------------------------|
| <b>Contract value</b>            | EGP 420,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                           |
| <b>Project name</b>              | <b>Galala Power Infrastructure Project</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>Start<br/>(Month/YY)</b> | <b>End<br/>(Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                           |
| <b>Project overview</b>          | <p>The project objective was to construct</p> <ul style="list-style-type: none"> <li>- Substation: 220/22/22 KV GIS Substation.</li> <li>- Medium Voltage Distribution Network.</li> <li>- 8 Km O.H.T.L 220 kV Double circuit AL-GALALA resort / AL-GALALA city.</li> </ul> <p>The scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Engineering, design, supply of local and foreign manufactured materials, civil works, erection, testing, setting to work, putting the substation into operation</li> <li>• Civil works, supply and erection of steel, testing at site, setting to work, putting into operation the MV distribution networks and lighting systems, insurance till provisional acceptance and warranty.</li> </ul> | Dec/17                      | Nov/18                    |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                             |                           |
| <b>Contract value</b>            | EGP 445,850,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                             |                           |
| <b>Project name</b>              | <b>Military Camping Complex (Kayan)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Start<br/>(Month/YY)</b> | <b>End<br/>(Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |                           |
| <b>Project overview</b>          | <p>Engineering, designing, delivery and implementation of the Al-KAYAN buildings.</p> <p>The scope includes -not limited to-:</p> <p>civil works, supply and erection of steel structure, interconnection, testing at site, setting to work, putting in operation -not limited to-:</p> <ul style="list-style-type: none"> <li>• MV and LV distribution networks.</li> <li>• HVAC.</li> <li>• Lighting Systems.</li> </ul>                                                                                                                                                                                                                                                                                                                                        | Dec/17                      | May/18                    |



|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
| <b>Project Completion Period</b> | 18 months                                                                                                                                                                                                                                                                                                                                                                                                               |                         |                       |
| <b>Contract value</b>            | EGP 177,704,412                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                       |
| <b>Project name</b>              | <b>West El Shorouk City – MV &amp; LV Distribution Networks</b>                                                                                                                                                                                                                                                                                                                                                         | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                     | Jan/16                  | July/16               |
| <b>Project overview</b>          | <p>Design, supply, delivery, and implementation of the MV &amp; LV distribution networks (22/0.380) KV for West El Shorouk City.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Distributor, transformer substations &amp; RMU.</li> <li>• MDB.</li> <li>• PFC (Capacitor bank).</li> <li>• LV &amp; MV cables.</li> <li>• Lighting poles.</li> <li>• MDB.</li> </ul> |                         |                       |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                |                         |                       |
| <b>Contract value</b>            | EGP 31,650,110                                                                                                                                                                                                                                                                                                                                                                                                          |                         |                       |

## Madkour's Reference List

### Solar energy projects

| Project name              | Kayan 19MW PV rooftop Power Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Start<br>(Month/YY) | End<br>(Month/YY) |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| Client name               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Jan/20              | In Progress       |
| Project overview          | <p>The scope of work includes -but not limited to:<br/>Supply, erection, putting to work the system on the rooftop of 33 Kayan buildings with a total power of 19MW peak. With 5 years of operation and maintenance.</p> <p>The system includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• PV modules.</li> <li>• Mounting structure.</li> <li>• Inverters.</li> <li>• DC cables, AC cables &amp; Earthing cables.</li> <li>• monitoring system &amp; Weather station.</li> </ul>              |                     |                   |
| Project Completion Period | 6 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                     |                   |
| Contract value            | EGP 157,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                     |                   |
| Project name              | Sharm El-Sheikh 5 MW PV Power Plant                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Start<br>(Month/YY) | End<br>(Month/YY) |
| Client name               | Intro for Solar Energy (Intro solar)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Jul/17              | Oct/17            |
| Project overview          | <p>The scope of work includes -but not limited to:<br/>Engineering, validation &amp; verification, construction engineering, procurement, construction, connection to grid, testing, commissioning &amp; start up on turnkey basis for 5 MW Solar photovoltaic plant located at Red Sea Governate, Egypt.</p> <p>the system that includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• PV modules.</li> <li>• Mounting structure.</li> <li>• Inverters.</li> <li>• DC combiner boxes.</li> </ul> |                     |                   |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                         |                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | <ul style="list-style-type: none"> <li>• LV &amp; MV cables.</li> <li>• Grounding system.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Project Completion Period</b> | 3 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Contract value</b>            | EGP 73,196,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Project name</b>              | <b>Al-Farafra 4MW PV Power Plant</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project overview</b>          | <p>Design a total energy production of 4000 kWh and produce an annual production 7300 MWh/year. Also supply, erection, putting to work the system that includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• PV modules.</li> <li>• Mounting structure.</li> <li>• Inverters.</li> <li>• SCADA system.</li> <li>• 2.5 MW transformers.</li> <li>• Fire alarms and firefighting system.</li> <li>• With providing insurance till provisional acceptance, warranty, training, and assistance during warranty period.</li> </ul> | Dec/15                  | Apr/16                |
| <b>Project Completion Period</b> | 4 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Contract value</b>            | EGP 41,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |

## Madkour's Reference List

### Construction and MEP projects

| Project name              | Administrative Capital Electricity Distribution Company (ACEDC) building                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Start (Month/YY) | End (Month/YY) |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|----------------|
| Client name               | Administrative Capital for Urban Development (ACUD)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                  |                |
| Project overview          | <p>Engineering, designing, and implementation of the Administrative Capital Electricity Distribution Company (ACEDC) building.</p> <p>The scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• The construction of the building.</li> <li>• Electrical substation and distribution panels.</li> <li>• The MEP works including: <ul style="list-style-type: none"> <li>○ Electrical works Indoor and outdoor lighting.</li> <li>○ Mechanical activities such as plumbing, HVAC and firefighting.</li> </ul> </li> <li>• Light current scope such as CCTV, sound system, access control and fire alarm system.</li> </ul> | July/20          | In Progress    |
| Project Completion Period | 3 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |                |
| Contract value            | EGP 50,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |                |
| Project name              | Sharm El Sheikh Museum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Start (Month/YY) | End (Month/YY) |
| Client name               | National General Contracting & Supplies, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |                |
| Project overview          | <p>Construct the new museum in Sharm el Sheikh.</p> <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Construction of the museum building.</li> <li>• Electrical substation and distribution panels.</li> <li>• The MEP works including: <ul style="list-style-type: none"> <li>○ Electrical works Indoor and outdoor lighting.</li> <li>○ Mechanical activities such as plumbing, HVAC and firefighting.</li> </ul> </li> </ul>                                                                                                                                                                      | Jan/19           | June/20        |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | <ul style="list-style-type: none"> <li>Light current scope such as CCTV, sound system, access control and fire alarm system.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                       |
| <b>Project Completion Period</b> | 18 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Contract value</b>            | EGP 198,841,936                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Project name</b>              | <b>Ambulance HQ project</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | National General Contracting & Supplies, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                         |                       |
| <b>Project overview</b>          | <p>Construct the Ambulance HQ in the new administrative capital.</p> <p>The Scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>Construction of the building.</li> <li>Electrical substation and distribution panels.</li> <li>The MEP works including: <ul style="list-style-type: none"> <li>Electrical works Indoor and outdoor lighting.</li> <li>Mechanical activities such as plumbing, HVAC and firefighting.</li> </ul> </li> <li>Light current scope such as CCTV, sound system, access control and fire alarm system.</li> </ul> | Dec/18                  | May/20                |
| <b>Project Completion Period</b> | 18 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Contract value</b>            | EGP 190,000,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Project name</b>              | <b>Galala University</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project overview</b>          | <p>Construct the Galala University buildings.</p> <p>The Scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>Construction of buildings.</li> <li>Electrical substation and distribution panels.</li> <li>The MEP works including:</li> </ul>                                                                                                                                                                                                                                                                                               | Sep/18                  | May/19                |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | <ul style="list-style-type: none"> <li>○ Electrical works Indoor and outdoor lighting.</li> <li>○ Mechanical activities such as plumbing, HVAC and firefighting.</li> <li>● Light current scope such as CCTV, sound system, intrusion system, access control and fire alarm system.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                         |                         |                       |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                         |                       |
| <b>Contract value</b>            | EGP 91,700,000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                         |                       |
| <b>Project name</b>              | <b>Japanese University in Burj Al-Arab</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |                       |
| <b>Project overview</b>          | <p>Engineering, designing, and implementation of the Japanese University complex that includes three literature halls, library building &amp; Student services center building.</p> <p>The scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>● Electrical substation and distribution panels.</li> <li>● The MEP works including: <ul style="list-style-type: none"> <li>○ Electrical works Indoor and outdoor lighting.</li> <li>○ Mechanical activities such as plumbing, HVAC and firefighting.</li> </ul> </li> <li>● Light current scope such as CCTV, sound system, intrusion system, access control and fire alarm system.</li> </ul> | Mar/18                  | Apr/19                |
| <b>Project Completion Period</b> | 13 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                         |                       |
| <b>Contract value</b>            | EGP 442,762,024                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project name</b>              | <b>Exhibition Center – New Cairo</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Engineering Authority of Armed Forces                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Oct/17                  | May/18                |

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Project overview</b>          | <p>Engineering, designing, delivery and implementation of the new exhibition center located in New Cairo.<br/> The scope includes -not limited to-:<br/> civil works, supply and erection of steel structure, interconnection, testing at site, setting to work, putting in operation all the MEP works including:</p> <ul style="list-style-type: none"> <li>• MV and LV distribution networks.</li> <li>• HVAC.</li> <li>• Lighting Systems</li> </ul> |  |  |
| <b>Project Completion Period</b> | 8 months                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
| <b>Contract value</b>            | EGP 264,423,921                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |

## Madkour's Reference List

### Water projects

| Project name              | South Valley "Toshka Development"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Start<br>(Month/YY) | End<br>(Month/YY) |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| Client name               | National Service Products Organization                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                     |                   |
| Project overview          | <p>The development of Toshka as part of the presidential project to grow wheat</p> <p>The Mechanical scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Pumps &amp; motors.</li> <li>• Priming systems.</li> <li>• Pipes and fittings.</li> <li>• Valves and joints.</li> <li>• Overhead travelling cranes.</li> <li>• Water hammer protection system.</li> </ul> <p>While the Electrical scope includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• MVSG.</li> <li>• Transformers and kiosks.</li> <li>• Panels.</li> <li>• Lighting system.</li> <li>• Cables.</li> <li>• Earthing systems.</li> <li>• All the necessary Civil and Architecture works.</li> </ul> | July/20             | Oct/20            |
| Project Completion Period | 3 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                     |                   |
| Contract value            | EGP 772,415,414                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                   |
| Project name              | El Kobba & El Tallin WWTP (15000 m3/day)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Start<br>(Month/YY) | End<br>(Month/YY) |
| Client name               | National organization for potable water and sanitary drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                     |                   |
| Project overview          | <p>The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Electromechanical works for the plant including plant inlet, grit, and grease removal systems, SBR systems, thickener, air blower system,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | July/20             | In Progress       |



|                                  |                                                                                                                                                                                                                                                                                                                                                            |                         |                       |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-----------------------|
|                                  | supernatant pumps, chlorination system and all electrical equipment                                                                                                                                                                                                                                                                                        |                         |                       |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Contract value</b>            | 102,421,524 EGP                                                                                                                                                                                                                                                                                                                                            |                         |                       |
| <b>Project name</b>              | <b>Extension of El Hawamdia WWTP (20000-40000 m3/day)</b>                                                                                                                                                                                                                                                                                                  | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Construction authority for potable water and wastewater (CAPW)                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project overview</b>          | <p>Extension of plant capacity from 20000 to 40000m3 /day the system includes -not limited to:</p> <ul style="list-style-type: none"> <li>• Civil and electromechanical works for</li> <li>• new plant entrance, screens, grit and grease removal system, balance tank, aeration tanks with IFAS system and connections to the existing plant.</li> </ul>  | July/20                 | In Progress           |
| <b>Project Completion Period</b> | 12 months                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Contract value</b>            | 88,370,850 EGP                                                                                                                                                                                                                                                                                                                                             |                         |                       |
| <b>Project name</b>              | <b>Badr villages sewage pump stations</b>                                                                                                                                                                                                                                                                                                                  | <b>Start (Month/YY)</b> | <b>End (Month/YY)</b> |
| <b>Client name</b>               | Holding Co. For Water & Wastewater - HCWW                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Project overview</b>          | <p>Construct of two sewage pumping station in Om Saber and Mansheet Naser villages in Badr, Behira. The scope of work includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Supply and install submersible pumps, pipelines including all valves and joints, screens, cranes, control system, and all electrotechnical works.</li> </ul> | Aug/19                  | In Progress           |
| <b>Project Completion Period</b> | 18 months                                                                                                                                                                                                                                                                                                                                                  |                         |                       |
| <b>Contract value</b>            | EGP 163,320,773                                                                                                                                                                                                                                                                                                                                            |                         |                       |

| Project name              | Quessna industrial area electromechanical works                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Start<br>(Month/YY) | End<br>(Month/YY) |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|
| Client name               | National General Contracting & Supplies, Cairo, Egypt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Sep/18              | Mar/20            |
| Project overview          | <p>The electrical scope was the construction of electrical substation and distribution network of the industrial city of Quessna which includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Distribution transformer compact substation, RMUs and MVSG.</li> <li>• DC equipment.</li> <li>• LV and MV cables.</li> </ul> <p>While the mechanical scope was the construction of water system which includes -not limited to-:</p> <ul style="list-style-type: none"> <li>• Well pumps and its accessories.</li> <li>• Underground tanks and its accessories.</li> <li>• Chlorination disinfection and its accessories.</li> <li>• Multimedia filtration system.</li> <li>• Elevated tanks and its accessories.</li> </ul> |                     |                   |
| Project Completion Period | 18 months                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                     |                   |
| Contract value            | EGP 118,579,191                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                     |                   |