



نگهداشت و افزایش تولید میدان نفتی بینک  
سطح الارض  
احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک



شماره پیمان:

۰۵۳ - ۰۷۳ - ۹۱۸۴

DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS

| نسخه | سریال | نوع مدرک | رشته | تسهیلات | صادر کننده | بسته کاری | پروژه |
|------|-------|----------|------|---------|------------|-----------|-------|
| D03  | 0016  | DT       | EL   | 120     | PEDCO      | GCS       | BK    |

شماره صفحه: ۱ از ۷

طرح نگهداشت و افزایش تولید ۲۷ مخزن

DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS

نگهداشت و افزایش تولید میدان نفتی بینک

| D03  | May. 2024 | AFC                     | H.Shakiba    | M.Fakharian | S.Faramarzpour |                 |
|------|-----------|-------------------------|--------------|-------------|----------------|-----------------|
| D02  | Apr. 2023 | AFC                     | H.Shakiba    | M.Fakharian | A.M.Mohseni    |                 |
| D01  | Jul. 2022 | IFA                     | H.Shakiba    | M.Fakharian | M.Mehrshad     |                 |
| D00  | May. 2022 | IFC                     | H.Shakiba    | M.Fakharian | M.Mehrshad     |                 |
| Rev. | Date      | Purpose of Issue/Status | Prepared by: | Checked by: | Approved by:   | Client Approval |

Class:1

Client Doc. Number: F0Z-709032

Status:

IDC: Inter-Discipline Check  
IFC: Issued For Comment  
IFA: Issued For Approval  
AFD: Approved For Design  
AFC: Approved For Construction  
AFP: Approved For Purchase  
AFQ: Approved For Quotation  
IFI: Issued For Information  
AB-R: As-Built for Client Review  
AB-A: As-Built -Approved

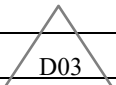
|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>                                                                                                                                                                                                                              |  |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
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| شماره پیمان:<br>۰۵۳ - ۰۷۳ - ۹۱۸۴                                                  | <table><tr><th colspan="8">DATA SHEETS FOR DISTRIBUTION &amp; LIGHTING PANELS</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>EL</td><td>DT</td><td>0016</td><td>D03</td></tr></table> | DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                      |         |      |          |       |      |  |  | پروژه | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه | BK | GCS | PEDCO | 120 | EL | DT | 0016 | D03 | شماره صفحه : ۲ از ۷ |
| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
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| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |

### REVISION RECORD SHEET

| PAGE | D00 | D01 | D02 | D03 | D04 |
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|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------|----------|-------|------|--|--|-------|-----------|------------|---------|------|----------|-------|------|----|-----|-------|-----|----|----|------|-----|--------------------|
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| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                     | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |

| Technical Data Sheet for Distribution & Lighting Panels |                                   |                                                                                                               |                                                                                     |
|---------------------------------------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ITEM                                                    | DESCRIPTION                       | REQUIREMENT                                                                                                   | SUPPLIER DATA                                                                       |
| 1                                                       | SITE CONDITION                    |                                                                                                               |                                                                                     |
| 1.1                                                     | Location                          | Binak Oilfield in Bushehr Province                                                                            |                                                                                     |
| 1.2                                                     | Max. Outdoor Ambient Temperature  | 52°C                                                                                                          |                                                                                     |
| 1.3                                                     | Min. Outdoor Ambient Temperature  | 5°C                                                                                                           |                                                                                     |
| 1.4                                                     | Direct Sunlight Temperature       | 85°C                                                                                                          |                                                                                     |
| 1.5                                                     | Maximum Relative Outdoor Humidity | 100%                                                                                                          |                                                                                     |
| 1.6                                                     | Altitude                          | 12.5 m Above Sea Level                                                                                        |  |
| 1.7                                                     | Installation Method               | Indoor/Outdoor, Surface/ Flush/Stand Mounted                                                                  |                                                                                     |
| 2                                                       | GENERAL INFORMATION               |                                                                                                               |                                                                                     |
| 2.1                                                     | Tag Numbers                       | GCS-400-NDP-01<br>Process Area Normal Distribution Panel<br>(Outdoor-Safe-Stand Mounted)                      |                                                                                     |
|                                                         |                                   | GCS-400-EDP-01<br>Process Area Emergency Distribution Panel<br>(Outdoor-Safe-Stand Mounted)                   |                                                                                     |
|                                                         |                                   | GCS-400-NDP-02<br>Utility Area Normal Distribution Panel<br>(Outdoor-Safe-Stand Mounted)                      |                                                                                     |
|                                                         |                                   | GCS-400-EDP-02<br>Utility Area Emergency Distribution Panel<br>(Outdoor-Safe-Stand Mounted)                   |                                                                                     |
|                                                         |                                   | GCS-400-EDP-CRM<br>Control Room Emergency Distribution Panel & HVAC<br>(Indoor-Safe-Flush Mounted)            |                                                                                     |
|                                                         |                                   | GCS-400-EDP-SWHVAC<br>Switchgear Distribution Panel & HVAC<br>(Indoor-Safe-Surface Mounted)                   |                                                                                     |
|                                                         |                                   | GCS-400-NON-UPS<br>Emergency Distribution Panel for Non UPS<br>(Indoor-Safe-Surface Mounted)                  |                                                                                     |
|                                                         |                                   | GCS-400-EDP-CCTV<br>GCS CCTV Emergency Distribution Panel & HVAC<br>(Indoor-Safe-Flush Mounted)               |                                                                                     |
|                                                         |                                   | DU-400-EDP-CCTV<br>Emergency Lighting Panel for CCTV Control Room-<br>BINAK DU<br>(Indoor-Safe-Flush Mounted) |                                                                                     |
|                                                         |                                   | PU-400-EDP-CCTV<br>Emergency Lighting Panel for CCTV Rack Room-<br>BINAK PU<br>(Indoor-Safe-Flush Mounted)    |                                                                                     |
|                                                         |                                   | GCS-400-EDP-WARE<br>Emergency Lighting Panel for GCS Warehouse<br>(Indoor-Safe-Surface Mounted)               |                                                                                     |

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| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                     | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |

### Technical Data Sheet for Distribution & Lighting Panels

| ITEM     | DESCRIPTION                             | REQUIREMENT                                                                         | SUPPLIER DATA |
|----------|-----------------------------------------|-------------------------------------------------------------------------------------|---------------|
| 2.2      | Quantity                                | 1 Set of Each In Item 2.1                                                           |               |
| 2.3      | Application Standard                    | IPS-E-EL-100, IPS-M-EL-143(3)<br>IPS-M-EL-161(2)                                    |               |
| 2.4      | Manufacturer                            | By Vendor                                                                           |               |
| 2.5      | Related Document                        | Distribution & Lighting Panels Single Line Diagram<br>(BK-GCS-PEDCO-120-EL-SL-0004) |               |
| <b>3</b> | <b>ELECTRICAL DATA</b>                  |                                                                                     |               |
| 3.1      | System Voltage/ Frequency               | 400V AC / 50Hz                                                                      |               |
| 3.2      | Voltage Variation/ Frequency Variation  | $\pm 10 / \pm 5\%$                                                                  |               |
| 3.3      | Insulation Voltage                      | 0.6/1KV                                                                             |               |
| 3.4      | Rated Power Frequency Withstand Voltage | 2.5 KV                                                                              |               |
| 3.5      | Rated Impulse Withstand Voltage         | 8 KV                                                                                |               |
| 3.6      | No. of Phases / Wires                   | 3Ph+N+PE                                                                            |               |
| 3.7      | Control Voltage                         | 230VAC (With Isolating Transformer if Any)                                          |               |
| 3.8      | Space Heater Voltage                    | 230VAC                                                                              |               |
| 3.9      | Internal/ External Voltage Supply       | Internal                                                                            |               |
| 3.10     | Main Bus-Bar Rating                     | According to SLD (Item 2.5)                                                         |               |
| 3.11     | Bus-Bars Material                       | Indoor: Heat Shrink Copper<br>Outdoor: Silver Plated Copper                         |               |
| 3.12     | Bus Bar Insulation                      | Dielectric Insulation                                                               |               |
| 3.13     | Bus Bars Joints                         | Silver Plated                                                                       |               |
| 3.14     | Earth Bus-Bar Size                      | By Vendor                                                                           |               |
| 3.15     | Rated Short Circuit Current             | According to SLD (Item 2.5)                                                         |               |
| 3.16     | Type Of System Grounding                | TNS / Solid Earthed                                                                 |               |
| <b>4</b> | <b>ENCLOSURE DATA</b>                   |                                                                                     |               |
| 4.1      | Enclosure Type                          | Wall Mounted , Fixed Type, Front Access                                             |               |
| 4.2      | Degree of Protection                    | Indoor: IP 42, Outdoor: IP 54                                                       |               |
| 4.3      | Cable Entry                             | Bottom via Gland                                                                    |               |
| 4.4      | Outgoing Feeder                         | Cable, Bottom                                                                       |               |
| 4.5      | Material                                | Painted Sheet Steel                                                                 |               |
| 4.6      | Finish Color                            | RAL 7032                                                                            |               |
| 4.7      | Dimensions (HxWxD)                      | By Vendor                                                                           |               |
| 4.8      | Sheet Steel Thickness (Body/Frame)      | 2mm/2mm                                                                             |               |

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| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                     | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |

| Technical Data Sheet for Distribution & Lighting Panels |                                |                                                                                                               |               |
|---------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------|---------------|
| ITEM                                                    | DESCRIPTION                    | REQUIREMENT                                                                                                   | SUPPLIER DATA |
| 4.9                                                     | Painting                       | For Corrosive & Hot Atmosphere                                                                                |               |
| 4.10                                                    | Thickness                      | Min. 60μ                                                                                                      |               |
| 4.11                                                    | Type                           | Epoxy Powder Elector Static                                                                                   |               |
| 4.12                                                    | Weight                         | By Vendor                                                                                                     |               |
| <b>5</b>                                                | <b>CIRCUIT BREAKERS</b>        |                                                                                                               |               |
| 5.1                                                     | Manufacturer / Type            | By Vendor                                                                                                     |               |
| 5.2                                                     | Rated Operating Voltage        | 690V AC                                                                                                       |               |
| 5.3                                                     | Service Voltage                | 400V AC                                                                                                       |               |
| 5.4                                                     | Incoming Circuit Breaker Type  | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                                 |               |
| 5.5                                                     | Internal Protections for MCCB  | According to "BK-GCS-PEDCO-120-EL-SL-0004",<br>Thermal Over Load (49) & Instantaneous O/C 50) are<br>Required |               |
| 5.6                                                     | Incoming C.B Aux. Switches     | Yes                                                                                                           |               |
| 5.7                                                     | Incoming C.B Trip Switches     | Yes                                                                                                           |               |
| 5.8                                                     | Rated Current                  | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                                 |               |
| 5.9                                                     | Outgoing Circuit Breakers Type | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                                 |               |
| <b>6</b>                                                | <b>LV FUSES</b>                |                                                                                                               |               |
| 6.1                                                     | Manufacturer                   | By Vendor                                                                                                     |               |
| 6.2                                                     | Type Designation               | gG                                                                                                            |               |
| 6.3                                                     | Rated Voltage                  | 690V                                                                                                          |               |
| 6.4                                                     | Service Voltage                | 400V                                                                                                          |               |
| 6.5                                                     | Rated Current                  | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                                 |               |
| <b>7</b>                                                | <b>CURRENT TRANSFORMERS</b>    |                                                                                                               |               |
| 7.1                                                     | Manufacturer / Type            | By Vendor                                                                                                     |               |
| 7.2                                                     | Rated Secondary Current        | 5A, 1A, According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                         |               |
| 7.3                                                     | Accuracy Class                 | Metering: 1.0, Protection: 5P10                                                                               |               |
| <b>8</b>                                                | <b>AMMETERS</b>                |                                                                                                               |               |
| 8.1                                                     | Manufacturer / Type            | By Vendor                                                                                                     |               |
| 8.2                                                     | Operating Range                | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                                                                 |               |
| 8.3                                                     | Accuracy Class                 | 1.5                                                                                                           |               |

|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>                                                                                                                                                                                                                              |  |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------|----------|-------|------|--|--|-------|-----------|------------|---------|------|----------|-------|------|----|-----|-------|-----|----|----|------|-----|--------------------|
| شماره پیمان:<br>۰۵۳ - ۰۷۳ - ۹۱۸۴                                                  | <table><tr><th colspan="8">DATA SHEETS FOR DISTRIBUTION &amp; LIGHTING PANELS</th></tr><tr><th>پروژه</th><th>بسته کاری</th><th>صادر کننده</th><th>تسهیلات</th><th>رشته</th><th>نوع مدرک</th><th>سریال</th><th>نسخه</th></tr><tr><td>BK</td><td>GCS</td><td>PEDCO</td><td>120</td><td>EL</td><td>DT</td><td>0016</td><td>D03</td></tr></table> | DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                      |         |      |          |       |      |  |  | پروژه | بسته کاری | صادر کننده | تسهیلات | رشته | نوع مدرک | سریال | نسخه | BK | GCS | PEDCO | 120 | EL | DT | 0016 | D03 | شماره صفحه: ۶ از ۷ |
| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                     | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |
| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                    |

| Technical Data Sheet for Distribution & Lighting Panels |                                                   |                                                                       |               |
|---------------------------------------------------------|---------------------------------------------------|-----------------------------------------------------------------------|---------------|
| ITEM                                                    | DESCRIPTION                                       | REQUIREMENT                                                           | SUPPLIER DATA |
| <b>9</b>                                                | <b>VOLTMETERS</b>                                 |                                                                       |               |
| 9.1                                                     | Manufacturer / Type                               | By Vendor                                                             |               |
| 9.2                                                     | Operating Range                                   | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                         |               |
| 9.3                                                     | Accuracy Class                                    | 1.5                                                                   |               |
| <b>10</b>                                               | <b>CONTACTORS</b>                                 |                                                                       |               |
| 10.1                                                    | Manufacturer / Type                               | By Vendor                                                             |               |
| 10.2                                                    | Rated Voltage                                     | 400V AC                                                               |               |
| 10.3                                                    | Coil Voltage                                      | 230V AC                                                               |               |
| 10.4                                                    | Duty                                              | AC3                                                                   |               |
| 10.5                                                    | Aux. Switches                                     | Yes                                                                   |               |
| 10.6                                                    | Rated Current                                     | According to<br>"BK-GCS-PEDCO-120-EL-SL-0004"                         |               |
| <b>11</b>                                               | <b>PHOTOCELL</b>                                  |                                                                       |               |
| 11.1                                                    | Constructed                                       | 5A,230 V,50Hz                                                         |               |
| 11.2                                                    | Degree of Protection                              | IP55 ,Heavy Duty Type                                                 |               |
| 11.3                                                    | Operation Type                                    | Fail Safe & Adjustable                                                |               |
| <b>12</b>                                               | <b>LABLE</b>                                      |                                                                       |               |
| 12.1                                                    | Language                                          | English                                                               |               |
| 12.2                                                    | Material                                          | Stainless Steel-Screwed/Reverted                                      |               |
| 12.3                                                    | Main Label (Front / Back)                         | Engraved / Black Font-White Background                                |               |
| <b>13</b>                                               | <b>PANEL WIRING</b>                               |                                                                       |               |
| 13.1                                                    | Manufacturer                                      | By Vendor                                                             |               |
| 13.2                                                    | Type                                              | CU/PVC                                                                |               |
| 13.3                                                    | Power Wire Color                                  | R: Red, S: Yellow, T: Blue, Neutral: Black<br>PH: Red, Neutral: Black |               |
| 13.4                                                    | Signal Wire Color<br>(Voltage Presence Indicator) | Red (L1), Green (L2), Yellow (L3)                                     |               |
| <b>14</b>                                               | <b>PANEL TERMINAL</b>                             |                                                                       |               |
| 14.1                                                    | Manufacturer                                      | By Vendor                                                             |               |
| 14.2                                                    | Model NO.                                         | By Vendor                                                             |               |
| 14.3                                                    | Type                                              | Solderless Clamp Type-Flame Retardant                                 |               |
| 14.4                                                    | Rated Voltage                                     | According to IEC                                                      |               |
| 14.5                                                    | Size                                              | Min. 4sqmm & AS Per SLD                                               |               |

|  | <p>نگهداشت و افزایش تولید میدان نفتی بینک<br/>سطح الارض</p> <p>احداث ردیف تراکم گاز در ایستگاه جمع آوری بینک</p>                                                                                                                                                                                                                              |  |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------|----------|-------|------|--|--|-------|-----------|------------|---------|------|----------|-------|------|----|-----|-------|-----|----|----|------|-----|---------------------|
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| DATA SHEETS FOR DISTRIBUTION & LIGHTING PANELS                                    |                                                                                                                                                                                                                                                                                                                                               |                                                                                     |         |      |          |       |      |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
| پروژه                                                                             | بسته کاری                                                                                                                                                                                                                                                                                                                                     | صادر کننده                                                                          | تسهیلات | رشته | نوع مدرک | سریال | نسخه |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |
| BK                                                                                | GCS                                                                                                                                                                                                                                                                                                                                           | PEDCO                                                                               | 120     | EL   | DT       | 0016  | D03  |  |  |       |           |            |         |      |          |       |      |    |     |       |     |    |    |      |     |                     |

| Technical Data Sheet for Distribution & Lighting Panels |                                        |                                     |               |
|---------------------------------------------------------|----------------------------------------|-------------------------------------|---------------|
| ITEM                                                    | DESCRIPTION                            | REQUIREMENT                         | SUPPLIER DATA |
| 14.6                                                    | Color                                  | Neutral (Blue) / PE (Green/ Yellow) |               |
| <b>15</b>                                               | <b>ACCESSORIES</b>                     |                                     |               |
| 15.1                                                    | Panel Lighting                         | Yes                                 |               |
| 15.2                                                    | Space Heater with Thermostat           | Yes                                 |               |
| 15.3                                                    | Door Key                               | Yes                                 |               |
| 15.4                                                    | Gland Plate (Undrilled)                | Yes                                 |               |
| 15.5                                                    | Gland Plate Type (Normal/Non-Magnetic) | Normal                              |               |
| 15.6                                                    | Terminal Lugs                          | Yes                                 |               |
| 15.7                                                    | Commissioning Spare Parts              | Yes                                 |               |
| 15.8                                                    | Two Year Operation Spare Parts         | Yes                                 |               |
| 15.9                                                    | Routine Test                           | Witnessed & Report                  |               |
| 15.10                                                   | Type Test Certificate (if Required)    | Certificate                         |               |

Note 1: All required accessories shall be considered by vendor.

Note 2: Outdoor Panels shall have canopy (sun shade).

