

SCHEDULE OF THECHNICAL INFORMATION  
(INFORMATION TO BE SUPPLIED WITH TENDER)

18.capacitor bank

**a:CAPACITOR**

| item | Description                                                                                                                                                                                                                | TECHNICAL PARTICULARS                                       |
|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| 1    | Manufacturer                                                                                                                                                                                                               | <b>PARTO KHAZEN.CO</b>                                      |
| 2    | Type of capaciotor                                                                                                                                                                                                         | PK 300/11.56 EDRI                                           |
| 3    | Number of capacitors in parallel                                                                                                                                                                                           | 9                                                           |
| 4    | Number ov capacitors in series                                                                                                                                                                                             | 5                                                           |
| 5    | Application standard                                                                                                                                                                                                       | IEC 871                                                     |
| 6    | Assigned rated current ----- amp                                                                                                                                                                                           | 25.97                                                       |
| 7    | Assigned rated voltage ----- kv                                                                                                                                                                                            | 11.56                                                       |
| 8    | Assigned rated output ----- kvar                                                                                                                                                                                           | 300                                                         |
| 9    | Norminal capacitance ----- μf                                                                                                                                                                                              | 7.15                                                        |
| 10   | Variation in capacitance due to temperature<br>variation (percent with respect to value at reference<br>ambient temperature)<br>a)At lowest ambient temperature ----- %<br>b)At upper limit of ambient temperature ----- % | <1%<br><1%                                                  |
| 11   | Nominal rated voltage of elements ----- V                                                                                                                                                                                  | 2312                                                        |
| 12   | Element constuction<br>a)electrode<br>b)solid dielectric<br>c)impergnant                                                                                                                                                   | Aluminium foil<br>polypropylen film<br>jarlyc c101 PCB free |

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|------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| 13   | a)minimun dielectric strenght ----- v/m                                                                             | 61kv/mm                                      |
|      | b)maximum dielectric stress at rated voltage ---- v/m                                                               | 65kv/mm                                      |
| 14   | Number of elements connected in series and/or parallel per phase                                                    | 45                                           |
| 15   | Details of fusing arrangment and whether internal or external (current time characteristic of fuses to be provided) | EXTERNAL FUSE                                |
| 16   | Minimum breakdown volage of individual elements<br>----- V                                                          | 1.14*Un                                      |
| 17   | Details of mineral oil for impregnating medium                                                                      | jarlyc c101 PCB free                         |
| 18   | Detail of alternative impregnating medium                                                                           | Benzylated toluene &<br>Dibenzylated toluene |
| 19   | Total losses at reference ambient temperature, at rated volage and frequency ----- kw                               | 0.036                                        |
| 20   | total losses at lowest ambient temperature, at rated volage and frequency ----- kw                                  | 0.03                                         |
| 21   | total losses at upper ambient temperature, at rated volage and frequency ----- kw                                   | 0.045                                        |
| 22   | total weight of complete capacitor including all fittings and impregnating medium ----- kg                          | 56                                           |

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| 23   | Detail of fitting and parts detached for transport                                        | 6 hongers on sites                                                               |
| 24   | Weight of complete three phase capacitor bank arranged for transport                      |                                                                                  |
|      | a)total ----- tones                                                                       | 2000kg                                                                           |
|      | b)heaviest packages ----- tones                                                           | 500kg                                                                            |
| 25   | Material of tank or container                                                             | stainless steel                                                                  |
| 26   | thichness of tank or container                                                            |                                                                                  |
|      | a)sides ----- mm                                                                          | 1.5                                                                              |
|      | b)bottom----- mm                                                                          | 1.5                                                                              |
|      | c) details of overall finish (including method of cleaning, primary and finishing paints) | 60μm primary 60μm finishing                                                      |
| 27   | Type of connector at H.V terminal of coapacotor bank                                      | NUT(M16)                                                                         |
| 28   | Type of connector at nutral end of capacitor bank                                         | NUT(M12)                                                                         |
| 29   | Insulation level between terminal and container:                                          |                                                                                  |
|      | _ impulse withstand----- kv peak                                                          | 125                                                                              |
|      | _ Power frequency withstand ----- kv rms                                                  | 50                                                                               |
| 30   | Creepage distance -----mm                                                                 | 762                                                                              |
| 31   | a) Resistance of discharge resistor ----- ohm                                             | 7200kohm                                                                         |
|      | b) Temperature category                                                                   | 40/D                                                                             |
| 32   | Container hottest spot temperature rise above ambient at rated powe ----- C               | At rated operation the<br>temperatare rise of the case is +8<br>to +10 in shadow |