

**ANNEXURE-II****Cable Connection chart of Auxiliary Cubicle HB1 for WAP7/WAG9/WAP5**

**\* In order to Drive MR Blower and ScMR Blower by three phase supply from BUR2 the connections should be treated as deleted.**

**4 PIN /8 GRADE XK32A:02**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 1137A     | XK32A:02-1      | 55.1/1-2      |
| 2       | 2.5                 | 1138A     | XK32A:02-2      | 55.1/1-4      |
| 3       | 2.5                 | 1139A     | XK32A:02-3      | 55.1/1-6      |

**\* 4 PIN /8 GRADE XK32A:05**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                      |
|--------|---------------------|-----------|-----------------|------------------------------------|
| 1      | 2.5                 | 1218      | XK32A:05-1      | XB32A-2                            |
| 2      | 2.5                 | 1201A     | XK32A:05-2      | 54.1/1-2                           |
| 3      | 2.5                 | 1202A     | XK32A:05-3      | 54.5/1-Q2 (For WAG 9 & WAP-5 only) |
| 3A     | 2.5                 | 1202A     | XK32A:05-3      | XB32A-9 (WAP 7 only)               |
| 3B     | 2.5                 | 1202A     | 54.5/1-Q2       | Low panel TB (WAP 7 only)          |

**4 PIN /8 GRADE XK32A:05**

**(Modified Connection for inverter fed MR Blower )**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 1201A     | XK32A:05 -1     | 54.1/1-2      |
| 2       | 2.5                 | 1202A     | XK32A:05 -2     | 54.1/1-4      |
| 3       | 2.5                 | 1204A     | XK32A:05 -3     | 54.1/1-6      |

**\* 4 PIN /8 GRADE XK32A:06**

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 1218      | XK32A:06-1      | XB32A-2       |
| 2       | 2.5                 | 1211A     | XK32A:06-2      | 56.1/1-2      |
| 3       | 2.5                 | 1213A     | XK32A:06-3      | 56.1/1-6      |

**4 PIN /8 GRADE XK32A:06**

**(Modified Connection for inverter fed ScMR Blower)**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 1211A     | XK32A:06-1      | 56.1/1-2      |
| 2       | 2.5                 | 1212A     | XK32A:06-2      | 56.1/1-4      |
| 3       | 2.5                 | 1213A     | XK32A:06-3      | 56.1/1-6      |

**4 PIN /8 GRADE XK32P:01**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 6                   | 1157A     | XK32P:01-1      | 62.1/1-2      |
| 2       | 6                   | 1158A     | XK32P:01-2      | 62.1/1-4      |
| 3       | 6                   | 1159A     | XK32P:01-3      | 62.1/1-6      |

**7 PIN /12 GRADE XK32C:01**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 1218      | XK32C:01-1      | XB32A-2       |
| 2       | 2.5                 | 1218      | XK32C:01-2      | XB32A-2       |
| 3       | 6                   | 6501      | XK32C:01-3      | XB32A-3       |
| 4       | 2.5                 | 6510      | XK32C:01-4      | XB32A-4       |
| 5       | 2.5                 | 6503      | XK32C:01-6      | XB32A-8       |

**7 PIN /12 GRADE XK32C:02**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
|---------|---------------------|-----------|-----------------|---------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|   |     |      |            |         |
|---|-----|------|------------|---------|
| 1 | 6   | 1218 | XK32C:02-1 | XB32A-1 |
| 2 | 2.5 | 6501 | XK32C:02-3 | XB32A-3 |
| 3 | 2.5 | 6510 | XK32C:02-4 | XB32A-4 |
| 4 | 6   | 1200 | XK32C:02-5 | XB32A-7 |
| 5 | 2.5 | 6503 | XK32C:02-6 | XB32A-8 |

**35 PIN /12 GRADE XK32S**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To                                                             |
|---------|---------------------|-----------|-----------------|---------------------------------------------------------------------------|
| 1       | 2.5                 | 2050      | XK32S-1         | 47.2/1-A2                                                                 |
| 2       | 1.5                 | 2050      | XK32S-1         | XK32S-2                                                                   |
| 3       | 2.5                 | 2050      | XK32S-2         | XK32F-2                                                                   |
| 4       | 1.5                 | 2808      | XK32S-3         | 52/5-61                                                                   |
| 5       | 1.5                 | 2809      | XK32S-4         | 52/4-71                                                                   |
| 6       | 1.5                 | 2817      | XK32S-5         | 52.3/4-A1                                                                 |
| 7       | 2.5                 | 2817      | XK32S-5         | XK32F-11                                                                  |
| 8       | 1.5                 | 2819      | XK32S-6         | 52/4-61                                                                   |
| 9       | 1.5                 | 2854      | XK32S-7         | 41-2                                                                      |
| 10      | 1.5                 | 2859      | XK32S-8         | 89.5-B                                                                    |
| 11      | 1.5                 | 2874      | XK32S-9         | 52.3/4-A2                                                                 |
| 12      | 2.5                 | 2874      | XK32S-9         | XK32F-10                                                                  |
| 13      | 1.5                 | 2894      | XK32S-10        | 52/4-54                                                                   |
| 14      | 2.5                 | 2894      | XK32S-10        | XK32F-9                                                                   |
| 15      | 1.5                 | 5091      | XK32S-11        | 52.3/5-A1                                                                 |
| 16      | 2.5                 | 5091      | XK32S-11        | XK32F-1                                                                   |
| 17      | 1.5                 | 5092      | XK32S-12        | 52/4-62                                                                   |
| 18      | 2.5                 | 2098      | XK32S-13        | XK32F-3                                                                   |
| 19      | 1.5                 | 2801A     | XK32S-14        | 41-1                                                                      |
| 20      | 1.5                 | 2850A     | XK32S-15        | 53.1/1-24                                                                 |
| 21      | 1.5                 | 2851A     | XK32S-16        | 55.1/1-24                                                                 |
| 22      | 1.5                 | 2852A     | XK32S-17        | 56.1/1-24                                                                 |
| 23      | 1.5                 | 2853A     | XK32S-18        | 54.1/1-24                                                                 |
| 24      | 1.5                 | 2855A     | XK32S-19        | 59.1/1-24                                                                 |
| 25      | 1.5                 | 2856A     | XK32S-20        | 62.1/1-24                                                                 |
| 26      | 1.5                 | 2857A     | XK32S-21        | 63.1/1-24 (CB has been deleted, but cable is to be provided with end lug) |
| 27      | 1.5                 | 3037A     | XK32S-22        | 47.2A/1-2+                                                                |
| 28      | 1.5                 | 2840A     | XK32S-23        | 47.1/1-14                                                                 |
| 29*     | 1.5                 | 2890      | XK32S-24        | 54.2/1-A1 (Not required)                                                  |
| 30*     | 1.5                 | 2896      | Xk32s-25        | 54.2/1-4 (Not                                                             |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |     |       |          |           |
|----|-----|-------|----------|-----------|
|    |     |       |          | required) |
| 31 | 1.5 | 2876  | XK32S-26 | 52/5-13   |
| 32 | 1.5 | 2877B | XK32S-27 | 52/5-14   |
| 33 | 1.5 | 2877A | XK32S-28 | 52/4-13   |
| 34 | 2.5 | 5094  | XK32S-29 | 52/4-14   |

**13 PIN /12 GRADE XK32F**

| Sl. No. | Cable Cross Section | Cable no. | Connection From | Connection To |
|---------|---------------------|-----------|-----------------|---------------|
| 1       | 2.5                 | 5091      | XK32F-12        | XK32F-1       |
| 2       | 1.5                 | 2875      | XK32F-7         | 52.3/5-A2     |
| 3       | 1.5                 | 2895      | XK32F-8         | 52/5-54       |
| 4       | 2.5                 | 5091      | XK32F-1         | XK32S-11      |
| 5       | 2.5                 | 2050      | XK32F-2         | XK32S-2       |
| 6       | 2.5                 | 2098      | XK32F-3         | XK32S-13      |
| 7       | 2.5                 | 2894      | XK32F-9         | XK32S-10      |
| 8       | 2.5                 | 2874      | XK32F-10        | XK32S-9       |
| 9       | 2.5                 | 2817      | XK32F-11        | XK32S-5       |

**4 PIN XK32B**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 25                  | 1121B     | XK32B-1         | 52/4-2        |
| 2      | 25                  | 1122B     | XK32B-2         | 52/4-4        |
| 3      | 25                  | 1123B     | XK32B-3         | 52/4-6        |

**4 PIN /8 GRADE XK32D**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | <b>25 35</b>        | 1131      | XK32D-1         | XH32A-4       |
| 2      | <b>25 35</b>        | 1132      | XK32D-2         | XH32A-5       |
| 3      | <b>25 35</b>        | 1133      | XK32D-3         | XH32A-6       |

**4 PIN /8 GRADE XK32E**

|  | Cable | Cable no. | Connection From | Connection To |
|--|-------|-----------|-----------------|---------------|
|--|-------|-----------|-----------------|---------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

| Sl. No | Cross Section |       |         |        |
|--------|---------------|-------|---------|--------|
| 1      | 50            | 1114A | XK32E-1 | 52/5-1 |
| 2      | 50            | 1115A | XK32E-2 | 52/5-3 |
| 3      | 50            | 1116A | XK32E-3 | 52/5-5 |

#### **41, FUSE 40 A**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                    |
|--------|---------------------|-----------|-----------------|----------------------------------|
| 1      | 6                   | 1103      | 41-Q1           | XI32A-1 (For WAG-9 & WAP-5 only) |
| 1A     | 6                   | 1103      | 41-Q1           | XB32A-10 (For WAP-7)             |
| 2      | 6                   | 1203      | 41-Q2           | 67-U1 (For WAG 9 & WAP-5 only)   |
| 2A     | 6                   | 1203      | 41-Q2           | XB32A-12 For WAP 7 only)         |
| 2B     | 6                   | 1203      | 67-U1           | Lower panel TB (For WAP 7 only)  |
| 3      | 1.5                 | 2801A     | 41-1            | XK32S-14                         |
| 4      | 1.5                 | 2801A     | 41-1            | 47.1/1-13                        |
| 5      | 1.5                 | 2854      | 41-2            | XK32S-7                          |

#### **47.2/1 , Contactor For Main Compressor**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 10                  | 1131      | 47.2/1-1        | XH32A-4       |
| 2      | 10                  | 1132      | 47.2/1-3        | XH32A-5       |
| 3      | 10                  | 1133      | 47.2/1-5        | XH32A-6       |
| 4      | 10                  | 1141A     | 47.2/1-2        | 47.1/1-1      |
| 5      | 10                  | 1142A     | 47.2/1-4        | 47.1/1-3      |
| 6      | 10                  | 1143A     | 47.2/1-6        | 47.1/1-5      |
| 7      | 1.5                 | 3037A     | 47.2/1-A1       | 47.2A/1-1+    |
| 8      | 1.5                 | 2050      | 47.2/1-A2       | 47.2A/1-4-    |
| 9      | 2.5                 | 2050      | 47.2/1-A2       | XK32S-1       |

#### **47.2A/1, Snubber Circuit**

| Sl. | Cable | Cable no. | Connection From | Connection To |
|-----|-------|-----------|-----------------|---------------|
|-----|-------|-----------|-----------------|---------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

| No | Cross Section |       |            |           |
|----|---------------|-------|------------|-----------|
| 1  | 1.5           | 3037A | 47.2A/1-1+ | 47.2/1-A1 |
| 2  | 1.5           | 3037A | 47.2A/1-2+ | XK32S-22  |
| 3  | 1.5           | 2050  | 47.2A/1-3- | 52.3/4-2  |
| 4  | 1.5           | 2050  | 47.2A/1-4- | 47.2/1-A2 |

#### **52.3/4 Auxiliary Contactor Type-6**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 1.5                 | 2884      | 52.3/4-1+       | 52/4-A2       |
| 2      | 1.5                 | 2050      | 52.3/4-2        | 47.2A/1-3-    |
| 3      | 1.5                 | 2050      | 52.3/4-2        | 52.3/5-2      |
| 4      | 1.5                 | 2817      | 52.3/4-A1       | 52/4-53       |
| 5      | 1.5                 | 2817      | 52.3/4-A1       | XK32S-5       |
| 6      | 1.5                 | 2874      | 52.3/4-A2       | XK32S-9       |

#### **52.3/5 Auxiliary Contactor Type-6**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 1.5                 | 2885      | 52.3/5-1+       | 52/5-A2       |
| 2      | 1.5                 | 2050      | 52.3/5-2        | 52.3/4-2      |
| 3      | 1.5                 | 5091      | 52.3/5-A1       | 52/4-72       |
| 4      | 1.5                 | 5091      | 52.3/5-A1       | XK32S-11      |
| 5      | 1.5                 | 2875      | 52.3/5-A2       | XK32F-7       |

#### **89.5 Earth Fault Relay**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                      |
|--------|---------------------|-----------|-----------------|------------------------------------|
| 1      | 2.5                 | 1217      | 89.5-U          | 90.42-Q-1 (For WAG 9 & WAP-5)      |
| 1A     | 2.5                 | 1217      | 89.5-U          | XB32A-10 (For WAP 7 only)          |
| 1B     | 2.5                 | 1217      | 90.42-Q1        | To Lower Panel TB (For WAP 7 only) |
| 2      | 2.5                 | 0         | 89.5-V          | MASSEM                             |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|   |     |       |        |           |
|---|-----|-------|--------|-----------|
| 3 | 1.5 | 2801A | 89.5-A | 47.1/1-13 |
| 4 | 1.5 | 2801A | 89.5-A | 62.1/1-23 |
| 5 | 1.5 | 2859  | 89.5-B | XK32S-8   |

**\* 54.2/1 Auxiliary Contactor to Time Relay**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                    |
|--------|---------------------|-----------|-----------------|----------------------------------|
| 1      | 1.5                 | 2890      | 54.2/1-A1       | XK32S-24                         |
| 2      | 1.5                 | 2890      | 54.2/1-3        | 54.2/1-A1-T                      |
| 3      | 1.5                 | 2890      | 54.2/1-16-T     | 54.2/1-A1                        |
| 4      | 1.5                 | 2050      | 54.2/1T-A2      | 54.2/1-A2                        |
| 5      | 1.5                 | 2050      | 54.2/1-A2       | 47.2A/1-3                        |
| 6      | 1.5                 | 2896      | 54.2/1-4        | XK32S-25                         |
| 7      | 2.5                 | 1201A     | 54.2/1-R1       | XB32A-05                         |
| 8      | 2.5                 | 1201A     | 54.2/1-R3       | XB32A-05                         |
| 9      | 2.5                 | 1204A     | 54.2/1-R-2      | 54.8/1-Q-1 (WAG 9 & WAP-5 only ) |
| 9A     | 2.5                 | 1204A     | 54.2/1-R-2      | XB32A-12 (WAP 7 only)            |
| 9B     | 2.5                 | 1204A     | 54.8/1-Q1       | Lower panel TB (WAP 7 only)      |
| 10     | 2.5                 | 1204A     | 54.2/1-R4       | 54.8/1-Q1 (WAG 9 & WAP-5 only)   |
| 10A    | 2.5                 | 1204A     | 54.2/1-R4       | XB32A-12 (WAP 7 only)            |
| 10B    | 2.5                 | 1204A     | 54.8/1-Q-1      | Lower panel TB (WAP 7 only)      |

**62.1/1 ,Circuit Breaker 16A 3 Pole for Oil Pump Transformer**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                                      |
|--------|---------------------|-----------|-----------------|----------------------------------------------------|
| 1      | 10                  | 1134      | 62.1/1-1        | XB32U:03-1                                         |
| 2      | 10                  | 1135      | 62.1/1-3        | XB32U:03-2                                         |
| 3      | 10                  | 1136      | 62.1/1-5        | XB32U:03-3                                         |
| 4      | 6                   | 1157A     | 62.1/1-2        | XK32P:01-1                                         |
| 5      | 6                   | 1158A     | 62.1/1-4        | XK32P:01-2                                         |
| 6      | 6                   | 1159A     | 62.1/1-6        | XK32P:01-3                                         |
| 7      | 1.5                 | 2801A     | 62.1/1-23       | 89.5-A                                             |
| 8      | 1.5                 | 2801A     | 62.1/1-23       | 63.1/1-23 (CB has been deleted, but cable is to be |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|   |     |       |           |           |
|---|-----|-------|-----------|-----------|
|   |     |       |           | provided) |
| 9 | 1.5 | 2856A | 62.1/1-24 | XK32S-20  |

### **63.1/1 ,Circuit Breaker Oil Pump Converter**

(MCB is deleted from scope of supply of Panel, it is to be provided by Propulsion manufacturer) (CB has been deleted, but cable with end lug is to be provided by the panel supplier)

| Sl. No | Cable Cross Section | Cable no. | Connection From                              | Connection To |
|--------|---------------------|-----------|----------------------------------------------|---------------|
|        |                     |           | Wires are in open condition and duly taped . |               |
| 1      | 2.5                 | 1134      | 63.1/1-1                                     | XB32U:03-1    |
| 2      | 2.5                 | 1135      | 63.1/1-3                                     | XB32U:03-2    |
| 3      | 2.5                 | 1136      | 63.1/1-5                                     | XB32U:03-3    |
| 4      | 2.5                 | 1167A     | 63.1/1-2                                     | XB32P:02-1    |
| 5      | 2.5                 | 1168A     | 63.1/1-4                                     | XB32P:02-2    |
| 6      | 2.5                 | 1169A     | 63.1/1-6                                     | XB32P:02-3    |
| 7      | 1.5                 | 2801A     | 63.1/1-23                                    | 62.1/1-23     |
| 8      | 1.5                 | 2801A     | 63.1/1-23                                    | 53.1/1-23     |
| 9      | 1.5                 | 2857A     | 63.1/1-24                                    | XK32S-21      |

### **47.1/1 , Circuit Breaker 40A 3POLE for Main Compressor**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 10                  | 1141A     | 47.1/1-1        | 47.2/1-2      |
| 2      | 10                  | 1142A     | 47.1/1-3        | 47.2/1-4      |
| 3      | 10                  | 1143A     | 47.1/1-5        | 47.2/1-6      |
| 4      | 10                  | 1187A     | 47.1/1-2        | XB32A:04-1    |
| 5      | 10                  | 1188A     | 47.1/1-4        | XB32A:04-2    |
| 6      | 10                  | 1189A     | 47.1/1-6        | XB32A:04-3    |
| 7      | 1.5                 | 2801A     | 47.1/1-13       | 41-1          |
| 8      | 1.5                 | 2801A     | 47.1/1-13       | 89.5-A        |
| 9      | 1.5                 | 2840A     | 47.1/1-14       | XK32S-23      |

**DUE TO OVERHEATING IN TERMINALS OF MCB, BLOCK XH32A HAS BEEN INCREASED FROM 06 TO 09 TERMINAL WITH ADDITION OF EXTRA POINT AT XH67A-7,8 & 9 AND FEED HAS BEEN GIVEN TO 53.1/1, 54.1/2 & 56.1**

| Sl. | Cable | Cable no. | Connection From | Connection To |
|-----|-------|-----------|-----------------|---------------|
|-----|-------|-----------|-----------------|---------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

| No | Cross Section |       |        |         |
|----|---------------|-------|--------|---------|
| 1  | 16            | 1121B | 52/4-2 | XH32A-7 |
| 2  | 16            | 1122B | 52/4-4 | XH32A-8 |
| 3  | 16            | 1123B | 52/4-6 | XH32A-9 |

**53.1/1 ,Circuit Breaker 63A 3 POLE Traction Motor Blower-1**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                                                |
|--------|---------------------|-----------|-----------------|--------------------------------------------------------------|
| 1      | 16                  | 1121B     | XH32A-7         | 53.1/1-1                                                     |
| 2      | 16                  | 1122B     | XH32A-8         | 53.1/1-3                                                     |
| 3      | 16                  | 1123B     | XH32A-9         | 53.1/1-5                                                     |
| 4      | 16                  | 1127A     | 53.1/1-2        | XB32A:01-1(MOD)                                              |
| 5      | 16                  | 1128A     | 53.1/1-4        | XB32A:01-2(MOD)                                              |
| 6      | 16                  | 1129A     | 53.1/1-6        | XB32A:01-3(MOD)                                              |
| 7      | 1.5                 | 2801A     | 53.1/1-23       | 63.1/1-23 (CB has been deleted, but cable is to be provided) |
| 8      | 1.5                 | 2801A     | 53.1/1-23       | 55.1/1-23                                                    |
| 9      | 1.5                 | 2850A     | 53.1/1-24       | XK32S-15                                                     |

**55.1/1 ,Circuit Breaker 10A 3POLE Scavenge Blower**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | <del>10</del> 16    | 1124      | 55.1/1-1        | XB32U:02-1    |
| 2      | <del>10</del> 16    | 1125      | 55.1/1-3        | XB32U:02-2    |
| 3      | <del>10</del> 16    | 1126      | 55.1/1-5        | XB32U:02-3    |
| 4      | 2.5                 | 1137A     | 55.1/1-2        | XK32A:02-1    |
| 5      | 2.5                 | 1138A     | 55.1/1-4        | XK32A:02-2    |
| 6      | 2.5                 | 1139A     | 55.1/1-6        | XK32A:02-3    |
| 7      | 1.5                 | 2801A     | 55.1/1-23       | 53.1/1-23     |
| 8      | 1.5                 | 2801A     | 55.1/1-23       | 59.1/1-23     |
| 9      | 1.5                 | 2851A     | 55.1/1-24       | XK32S-16      |

**59.1/1 ,Circuit Breaker 63A 3POLE OCU-1**

| Sl. No | Cable Cross | Cable no. | Connection From | Connection To |
|--------|-------------|-----------|-----------------|---------------|
|--------|-------------|-----------|-----------------|---------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|   | Section |       |           |                 |
|---|---------|-------|-----------|-----------------|
| 1 | 16      | 1121A | 59.1/1-1  | XH32A-1         |
| 2 | 16      | 1122A | 59.1/1-3  | XH32A-2         |
| 3 | 16      | 1123A | 59.1/1-5  | XH32A-3         |
| 4 | 16      | 1147A | 59.1/1-2  | XB32A:03-1(MOD) |
| 5 | 16      | 1148A | 59.1/1-4  | XB32A:03-2(MOD) |
| 6 | 16      | 1149A | 59.1/1-6  | XB32A:03-3(MOD) |
| 7 | 1.5     | 2801A | 59.1/1-23 | 55.1/1-23       |
| 8 | 1.5     | 2801A | 59.1/1-23 | 54.1/1-23       |
| 9 | 1.5     | 2855A | 59.1/1-24 | XK32S-19        |

**\* 54.1/1 ,Circuit Breaker 20A 1 POLE MR Blower**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 2.5                 | 1200      | 54.1/1-1        | 69.62-1       |
| 2      | 6                   | 1200      | 54.1/1-1        | 56.1/1-1      |
| 3      | 2.5                 | 1201A     | 54.1/1-2        | XB32A-05      |
| 4      | 2.5                 | 1201A     | 54.1/1-2        | XK32A:05-2    |
| 5      | 1.5                 | 2801A     | 54.1/1-23       | 59.1/1-23     |
| 6      | 1.5                 | 2801A     | 54.1/1-23       | 56.1/1-23     |
| 7      | 1.5                 | 2853A     | 54.1/1-24       | XK32S-18      |

**54.1/1 ,Circuit Breaker 10A 3 POLE MR Blower**

**(Modified Connection for inverter fed MR Blower )**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                                |
|--------|---------------------|-----------|-----------------|----------------------------------------------|
| 1      | 2.5                 | 1131      | XH32A-4         | 54.1/1-1 (RDSO MS 0482 Rev.1, Energy Saving) |
| 2      | 2.5                 | 1132      | XH32A-5         | 54.1/1-3 (RDSO MS 0482 Rev.1, Energy Saving) |
| 3      | 2.5                 | 1133      | XH32A-6         | 54.1/1-5 (RDSO MS 0482 Rev.1, Energy Saving) |
| 4      | 2.5                 | 1201A     | 54.1/1-2        | XK32A:05-1                                   |
| 5      | 2.5                 | 1202A     | 54.1/1-4        | XK32A:05-2                                   |
| 6      | 2.5                 | 1204A     | 54.1/1-6        | XK32A:05-3                                   |
| 7      | 1.5                 | 2801A     | 54.1/1-23       | 59.1/1-23                                    |
| 8      | 1.5                 | 2801A     | 54.1/1-23       | 56.1/1-23                                    |
| 9      | 1.5                 | 2853A     | 54.1/1-24       | XK32S-18                                     |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

**\* 56.1/1 ,Circuit Breaker 10 A 1 POLE Scavenge Blower**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 6                   | 1200      | 56.1/1-1        | XB32A-7       |
| 2      | 6                   | 1200      | 56.1/1-1        | 54.1/1-1      |
| 3      | 2.5                 | 1211A     | 56.1/1-2        | XK32A:06-2    |
| 4      | 1.5                 | 2801A     | 56.1/1-23       | 54.1/1-23     |
| 5      | 1.5                 | 2852A     | 56.1/1-24       | XK32S-17      |

**56.1/1 ,Circuit Breaker 10 A 3 POLE Scavenge Blower****(Modified Connection for inverter fed ScMR Blower )**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                                |
|--------|---------------------|-----------|-----------------|----------------------------------------------|
| 1      | 2.5                 | 1131      | XH32A-4         | 56.1/1-1 (RDSO MS 0482 Rev.1, Energy Saving) |
| 2      | 2.5                 | 1132      | XH32A-5         | 56.1/1-3 (RDSO MS 0482 Rev.1, Energy Saving) |
| 3      | 2.5                 | 1133      | XH32A-6         | 56.1/1-5 (RDSO MS 0482 Rev.1, Energy Saving) |
| 4      | 2.5                 | 1211A     | 56.1/1-2        | XK32A:06-1                                   |
| 5      | 2.5                 | 1212A     | 56.1/1-4        | XK32A:06-2                                   |
| 6      | 2.5                 | 1213A     | 56.1/1-6        | XK32A:06-3                                   |
| 7      | 1.5                 | 2801A     | 56.1/1-23       | 54.1/1-23                                    |
| 8      | 1.5                 | 2852A     | 56.1/1-24       | XK32S-17                                     |

**69.61/1 , Circuit Breaker 10A 1POLE for CAB Ventilation**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                   |
|--------|---------------------|-----------|-----------------|---------------------------------|
| 1      | 2.5                 | 6500      | 69.61-1         | 69.71-1                         |
| 2      | 2.5                 | 6500      | 69.61-1         | 67-U-3 (For WAG 9 & WAP-5 only) |
| 2A     | 2.5                 | 6500      | 69.61-1         | XB32A-13 (For WAP 7 only)       |
| 2A     | 2.5                 | 6500      | 67-U-3          | Lower panel TB (For WAP 7 only) |
| 3      | 2.5                 | 6501      | 69.61-2         | XB32A-3                         |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

**69.62/1 ,Circuit Breaker 10A 1POLE for CAB Heater**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 6                   | 1200      | 69.62-1         | XB32A-7 (Mod) |
| 2      | 2.5                 | 6503      | 69.62-2         | XB32A-8       |

**69.71/1 ,Circuit Breaker 10A 1POLE for Crew Fan**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 2.5                 | 6500      | 69.71-1         | 69.61-1       |
| 2      | 2.5                 | 6510      | 69.71-2         | XB32A-4       |

**52/4 ,Contactor for Aux. Converter**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | <del>25</del> 35    | 1121A     | 52/4-1          | 52/5-2        |
| 2      | <del>25</del> 35    | 1122A     | 52/4-3          | 52/5-4        |
| 3      | <del>25</del> 35    | 1123A     | 52/4-5          | 52/5-6        |
| 4      | <del>25</del> 35    | 1121B     | 52/4-2          | XK32B-1       |
| 5      | <del>25</del> 35    | 1122B     | 52/4-4          | XK32B-2       |
| 6      | <del>25</del> 35    | 1123B     | 52/4-6          | XK32B-3       |
| 7      | 16                  | 1121B     | 52/4-2          | XH32A-7       |
| 8      | 16                  | 1122B     | 52/4-4          | XH32A-8       |
| 9      | 16                  | 1123B     | 52/4-6          | XH32A-9       |
| 10     | 1.5                 | 2808      | 52/4-A1         | 52/5-61       |
| 11     | 1.5                 | 2884      | 52/4-A2         | 52.3/4-1+     |
| 12     | 1.5                 | 2817      | 52/4-53         | 52/5-62       |
| 13     | 1.5                 | 2817      | 52/4-53         | 52.3/4-A1     |
| 14     | 1.5                 | 2894      | 52/4-54         | XK32S-10      |
| 15     | 1.5                 | 2819      | 52/4-61         | 52/5-71       |
| 16     | 1.5                 | 2819      | 52/4-61         | XK32S-6       |
| 17     | 1.5                 | 5092      | 52/4-62         | 52/5-72       |
| 18     | 1.5                 | 5092      | 52/4-62         | XK32S-12      |
| 19     | 1.5                 | 2809      | 52/4-71         | XK32S-4       |
| 20     | 1.5                 | 2809      | 52/4-71         | 52/5-A1       |
| 21     | 1.5                 | 5091      | 52/4-72         | 52/5-53       |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|     |     |       |         |           |
|-----|-----|-------|---------|-----------|
| 22  | 1.5 | 5091  | 52/4-72 | 52.3/5-A1 |
| 23  | 1.5 | 2877A | 52/4-13 | XK32S-28  |
| 23A | 2.5 | 2877A | 52/4-13 | 52/4-43   |
| 24  | 1.5 | 5094  | 52/4-14 | XK32S-29  |
| 24A | 2.5 | 5094  | 52/4-14 | 52/4-44   |

**52/5 , Contactor for Aux. Converter**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 50                  | 1114A     | 52/5-1          | XK32E-1       |
| 2      | 50                  | 1115A     | 52/5-3          | XK32E-2       |
| 3      | 50                  | 1116A     | 52/5-5          | XK32E-3       |
| 4      | <del>25</del> 35    | 1121A     | 52/5-2          | XH32A-1       |
| 5      | <del>25</del> 35    | 1122A     | 52/5-4          | XH32A-2       |
| 6      | <del>25</del> 35    | 1123A     | 52/5-6          | XH32A-3       |
| 7      | <del>25</del> 35    | 1121A     | 52/5-2          | 52/4-1        |
| 8      | <del>25</del> 35    | 1122A     | 52/5-4          | 52/4-3        |
| 9      | <del>25</del> 35    | 1123A     | 52/5-6          | 52/4-5        |
| 10     | 1.5                 | 2809      | 52/5-A1         | 52/4-71       |
| 11     | 1.5                 | 2885      | 52/5-A2         | 52.3/5-1+     |
| 12     | 1.5                 | 5091      | 52/5-53         | 52/4-72       |
| 13     | 1.5                 | 2895      | 52/5-54         | XK32F-8       |
| 14     | 1.5                 | 2808      | 52/5-61         | 52/4-A1       |
| 15     | 1.5                 | 2808      | 52/5-61         | XK32S-3       |
| 16     | 1.5                 | 2817      | 52/5-62         | 52/4-53       |
| 17     | 1.5                 | 2819      | 52/5-71         | 52/4-61       |
| 18     | 1.5                 | 5092      | 52/5-72         | 52/4-62       |
| 19     | 1.5                 | 2876      | 52/5-13         | XK32S-26      |
| 19A    | 2.5                 | 2876      | 52/5-13         | 52/5-43       |
| 20     | 1.5                 | 2877B     | 52/4-14         | XK32S-27      |
| 20A    | 2.5                 | 2877B     | 52/4-14         | 52/5-44       |

**\* Cap. Connection 54.5/1 22 MFD & 54.8/1 47 MFD**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To         |
|--------|---------------------|-----------|-----------------|-----------------------|
| 1      | 2.5                 | 1201A     | 54.5/1-Q-1      | XB32A-5               |
| 2      | 2.5                 | 1202A     | 54.5/1-Q-2      | XK32A:05-3            |
| 3      | 2.5                 | 1204A     | 54.8/1-Q-1      | 54.2/1-R-2            |
| 3A     | 2.5                 | 1204A     | 54.2/1-R-2      | XB32A-12 (WAP 7 only) |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |     |       |            |                             |
|----|-----|-------|------------|-----------------------------|
| 3B | 2.5 | 1204A | 54.8/1-Q-1 | Lower panel TB (WAP 7 only) |
| 4  | 2.5 | 1204A | 54.8/1-Q-1 | 54.2/1-R-4                  |
| 4A | 2.5 | 1204A | 54.2/1-R4  | XB32A-12 (WAP 7 only)       |
| 4B | 2.5 | 1204A | 54.8/1-Q-1 | Lower panel TB (WAP 7 only) |
| 5  | 2.5 | 1202A | 54.5/1-Q-2 | 54.8/1-Q-2                  |

**90.41 & 90.42, Resistance 1.8 K Ohm**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                    |
|--------|---------------------|-----------|-----------------|----------------------------------|
| 1      | 2.5                 | 1200      | 90.41-Q-1       | 67-U2                            |
| 2      | 2.5                 | 1218      | 90.42-Q-2       | XB32A-1 (For WAG 9 & WAP-5 only) |
| 2A     | 2.5                 | 1218      | 90.42-Q-2       | Lower panel TB (For WAP7 only)   |
| 3      | 2.5                 | 1217      | 90.42-Q-1       | 89.5-U (For WAG-9 & WAP-5 only)  |
| 3A     | 2.5                 | 1217      | 90.42-Q-1       | Lower panel TB (For WAP 7 only)  |
| 3B     | 2.5                 | 1217      | 89.5-U          | XB32A-9 (For WAP-7 only)         |
| 4      | 2.5                 | 1217      | 90.41-Q-2       | 90.42-Q-1                        |

**67, Auxiliary Transformer Connection**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To                    |
|--------|---------------------|-----------|-----------------|----------------------------------|
| 1      | 6                   | 1203      | 67-U1           | 41-Q-2 (For WAG 9 & WAP-5 only)  |
| 1A     | 6                   | 1203      | 41-Q-2          | XB32A-11 (For WAP 7 only)        |
| 1B     | 6                   | 1203      | 67-U1           | Lower panel TB (For WAP 7 only)  |
| 2      | 6                   | 1117      | 67-V1           | XI32A-2                          |
| 3      | 6                   | 1218      | 67-V-2          | XB32A-1 (For WAG 9 & WAP-5 only) |
| 3A     | 6                   | 1218      | 67-V-2          | Lower panel TB (For WAP 7 only)  |
| 4      | 2.5                 | 6500      | 67-U-3          | 69.61-1 (For                     |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |     |      |         |                                  |
|----|-----|------|---------|----------------------------------|
|    |     |      |         | WAG-9 & WAP-5 only)              |
| 4A | 2.5 | 6500 | 67-U-3  | Lower panel TB (For WAP 7 only)  |
| 4B | 2.5 | 6500 | 69.61-1 | XB32A-13 (For WAP 7 only)        |
| 5  | 2.5 | 1200 | 67-U-2  | 90.41-Q-1                        |
| 6  | 6   | 1200 | 67-U-2  | XB32A-7 (For WAG 9 & WAP-5 only) |
| 6A | 6   | 1200 | 67-U-2  | Lower panel TB (For WAP 7 only)  |
| 7  | 10  | 0    | 67-M    | MASSE 325-M                      |

**XH32A (TB-Top to Bottom)**

| Sl. No | Cable Cross Section | Cable no. | Connection From | Connection To |
|--------|---------------------|-----------|-----------------|---------------|
| 1      | 16                  | 1121A     | XB32U:01-1      | XH32A-1 (MOD) |
| 2      | 16                  | 1122A     | XB32U:01-2      | XH32A-2 (MOD) |
| 3      | 16                  | 1123A     | XB32U:01-3      | XH32A-3 (MOD) |

**TB - XH32A (1) : 21 POINTS**

| Sl.No | Cable CrossSection | Cable no. | ConnectionFrom | ConnectionTo |
|-------|--------------------|-----------|----------------|--------------|
| 1     | 16 mm <sup>2</sup> | 1127A     | XH32A (1)-1    | 53.1/1-2     |
| 2     | 16 mm <sup>2</sup> | 1128A     | XH32A (1)-2    | 53.1/1-4     |
| 3     | 16 mm <sup>2</sup> | 1129A     | XH32A (1)-3    | 53.1/1-6     |
| 4     | 16 mm <sup>2</sup> | 1147A     | XH32A (1)-4    | 59.1/1-2     |
| 5     | 16 mm <sup>2</sup> | 1148A     | XH32A (1)-5    | 59.1/1-4     |
| 6     | 16 mm <sup>2</sup> | 1149A     | XH32A (1)-6    | 59.1/1-6     |
| 7     | 10 mm <sup>2</sup> | 1187A     | XH32A (1)-7    | 47.1/1-2     |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |                     |       |              |             |
|----|---------------------|-------|--------------|-------------|
| 8  | 10 mm <sup>2</sup>  | 1188A | XH32A (1)-8  | 47.1/1-4    |
| 9  | 10 mm <sup>2</sup>  | 1189A | XH32A (1)-9  | 47.1/1-6    |
| 10 | 10 mm <sup>2</sup>  | 1121A | XH32A (1)-10 | XH32A (2)-1 |
| 11 | 10 mm <sup>2</sup>  | 1122A | XH32A (1)-11 | XH32A (2)-2 |
| 12 | 10 mm <sup>2</sup>  | 1123A | XH32A (1)-12 | XH32A (2)-3 |
| 13 | 10 mm <sup>2</sup>  | 1124  | XH32A (1)-13 | 55.1/1-1    |
| 14 | 10 mm <sup>2</sup>  | 1125  | XH32A (1)-14 | 55.1/1-3    |
| 15 | 10 mm <sup>2</sup>  | 1126  | XH32A (1)-15 | 55.1/1-5    |
| 16 | 10 mm <sup>2</sup>  | 1134  | XH32A (1)-16 | 62.1/1-1    |
| 17 | 2.5 mm <sup>2</sup> | 1134  | XH32A (1)-16 | 63.1/1-1    |
| 18 | 10 mm <sup>2</sup>  | 1135  | XH32A (1)-17 | 62.1/1-3    |
| 19 | 2.5 mm <sup>2</sup> | 1135  | XH32A (1)-17 | 63.1/1-3    |
| 20 | 10 mm <sup>2</sup>  | 1136  | XH32A (1)-18 | 62.1/1-5    |
| 21 | 2.5 mm <sup>2</sup> | 1136  | XH32A (1)-18 | 63.1/1-5    |
| 22 | 2.5 mm <sup>2</sup> | 1167A | XH32A (1)-19 | 63.1/1-2    |
| 23 | 2.5 mm <sup>2</sup> | 1168A | XH32A (1)-20 | 63.1/1-4    |
| 24 | 2.5 mm <sup>2</sup> | 1169A | XH32A (1)-21 | 63.1/1-6    |

**TB - XH32A (2) : 6 POINTS**

| Sl.No | Cable CrossSection | Cable no. | ConnectionFrom | ConnectionTo |
|-------|--------------------|-----------|----------------|--------------|
|-------|--------------------|-----------|----------------|--------------|

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |                    |       |             |              |
|----|--------------------|-------|-------------|--------------|
| 1  | 25 mm <sup>2</sup> | 1121A | XH32A (2)-1 | 52/5-2       |
| 2  | 10 mm <sup>2</sup> | 1121A | XH32A (2)-1 | XH32A (1)-10 |
| 3  | 16 mm <sup>2</sup> | 1121A | XH32A (2)-1 | 59.1/1-1     |
| 4  | 25 mm <sup>2</sup> | 1122A | XH32A (2)-2 | 52/5-4       |
| 5  | 10 mm <sup>2</sup> | 1122A | XH32A (2)-2 | XH32A (1)-11 |
| 6  | 16 mm <sup>2</sup> | 1122A | XH32A (2)-2 | 59.1/1-3     |
| 7  | 25 mm <sup>2</sup> | 1123A | XH32A (2)-3 | 52/5-6       |
| 8  | 10 mm <sup>2</sup> | 1123A | XH32A (2)-3 | XH32A (1)-12 |
| 9  | 16 mm <sup>2</sup> | 1123A | XH32A (2)-3 | 59.1/1-5     |
| 10 | 10 mm <sup>2</sup> | 1131  | XH32A (2)-4 | 47.2/1-1     |
| 11 | 25 mm <sup>2</sup> | 1131  | XH32A (2)-4 | XK32D-1      |
| 12 | 10 mm <sup>2</sup> | 1132  | XH32A (2)-5 | 47.2/1-3     |
| 13 | 25 mm <sup>2</sup> | 1132  | XH32A (2)-5 | XK32D-2      |
| 14 | 10 mm <sup>2</sup> | 1133  | XH32A (2)-6 | 47.2/1-5     |
| 15 | 25 mm <sup>2</sup> | 1133  | XH32A (2)-6 | XK32D-3      |

**TB- XB32A (1): 14 POINTS for WAP-7**

| Sl.No | Cable CrossSection  | Cable no. | ConnectionFrom | ConnectionTo |
|-------|---------------------|-----------|----------------|--------------|
| 1     | 6 mm <sup>2</sup>   | 1218      | XB32A (1)-1    | XK32C:02-1   |
| 2     | 6 mm <sup>2</sup>   | 1218      | XB32A (1)-1    | XB32A (2)-4  |
| 3     | 2.5 mm <sup>2</sup> | 1218      | XB32A (1)-2    | XK32A:05-1   |
| 4     | 2.5 mm <sup>2</sup> | 1218      | XB32A (1)-2    | XK32A:06-1   |
| 5     | 2.5 mm <sup>2</sup> | 1218      | XB32A (1)-2    | XK32C:01-1   |
| 6     | 2.5 mm <sup>2</sup> | 1218      | XB32A (1)-2    | XK32C:01-2   |
| 7     | 6 mm <sup>2</sup>   | 6501      | XB32A (1)-3    | XK32C:01-3   |
| 8     | 2.5 mm <sup>2</sup> | 6501      | XB32A (1)-3    | XK32C:02-3   |
| 9     | 2.5 mm <sup>2</sup> | 6501      | XB32A (1)-3    | 69.61-2      |
| 10    | 2.5 mm <sup>2</sup> | 6510      | XB32A (1)-4    | XK32C:01-4   |
| 11    | 2.5 mm <sup>2</sup> | 6510      | XB32A (1)-4    | XK32C:02-4   |
| 12    | 2.5 mm <sup>2</sup> | 6510      | XB32A (1)-4    | 69.71-2      |
| 13    | 2.5 mm <sup>2</sup> | 1201A     | XB32A (1)-5    | 54.1/1-2     |
| 14    | 2.5 mm <sup>2</sup> | 1201A     | XB32A (1)-5    | 54.2/1-R1    |
| 15    | 2.5 mm <sup>2</sup> | 1201A     | XB32A (1)-6    | XB32A (2)-7  |
| 16    | 10 mm <sup>2</sup>  | 1200      | XB32A (1)-7    | 56.1/1-1     |
| 17    | 2.5 mm <sup>2</sup> | 1200      | XB32A (1)-7    | 69.62-1      |
| 18    | 6 mm <sup>2</sup>   | 1200      | XB32A (1)-7    | XK32C:02-5   |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
| PREPARED BY<br>PROSANTA ROY | CHECKED BY<br>CHANDAN KUMAR | APPROVED BY<br>RAKESH RAWAL |
| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |

|    |                     |       |              |             |
|----|---------------------|-------|--------------|-------------|
| 19 | 6 mm <sup>2</sup>   | 1200  | XB32A (1)-7  | XB32A (2)-3 |
| 20 | 2.5 mm <sup>2</sup> | 1202A | XB32A (1)-8  | XK32A:05-3  |
| 21 | 2.5 mm <sup>2</sup> | 1202A | XB32A (1)-8  | XB32A (2)-8 |
| 22 | 2.5 mm <sup>2</sup> | 6503  | XB32A (1)-9  | XK32C:01-6  |
| 23 | 2.5 mm <sup>2</sup> | 6503  | XB32A (1)-9  | XK32C:02-6  |
| 24 | 2.5 mm <sup>2</sup> | 6503  | XB32A (1)-9  | 69.62-2     |
| 25 | 2.5 mm <sup>2</sup> | 6500  | XB32A (1)-10 | 69.61-1     |
| 26 | 2.5 mm <sup>2</sup> | 6500  | XB32A (1)-10 | XB32A (2)-5 |
| 27 | 2.5 mm <sup>2</sup> | 1204A | XB32A (1)-11 | 54.2/1-R2   |
| 28 | 2.5 mm <sup>2</sup> | 1204A | XB32A (1)-11 | XB32A (2)-9 |
| 29 | 2.5 mm <sup>2</sup> | 1217  | XB32A (1)-12 | 89.5-U      |
| 30 | 2.5 mm <sup>2</sup> | 1217  | XB32A (1)-12 | XB32A (2)-6 |
| 31 | 6 mm <sup>2</sup>   | 1103  | XB32A (1)-13 | 41-Q1       |
| 32 | 6 mm <sup>2</sup>   | 1103  | XB32A (1)-13 | XB32A (2)-1 |
| 33 | 6 mm <sup>2</sup>   | 1203  | XB32A (1)-14 | XB32A (2)-2 |
| 34 | 6 mm <sup>2</sup>   | 1203  | XB32A (1)-14 | 41-Q2       |

**TB- XB32A (2): 9 POINTS for WAP-7**

| Sl.No | Cable CrossSection  | Cable no. | ConnectionFrom | ConnectionTo |
|-------|---------------------|-----------|----------------|--------------|
| 1     | 6 mm <sup>2</sup>   | 1103      | XB32A (2)-1    | XI32A-1      |
| 2     | 6 mm <sup>2</sup>   | 1103      | XB32A (2)-1    | XB32A (1)-13 |
| 3     | 6 mm <sup>2</sup>   | 1203      | XB32A (2)-2    | 67-U1        |
| 4     | 6 mm <sup>2</sup>   | 1203      | XB32A (2)-2    | XB32A (1)-14 |
| 5     | 6 mm <sup>2</sup>   | 1200      | XB32A (2)-3    | XB32A (1)-7  |
| 6     | 6 mm <sup>2</sup>   | 1200      | XB32A (2)-3    | 67-U2        |
| 7     | 6 mm <sup>2</sup>   | 1218      | XB32A (2)-4    | XB32A (1)-1  |
| 8     | 6 mm <sup>2</sup>   | 1218      | XB32A (2)-4    | 67-V2        |
| 9     | 2.5 mm <sup>2</sup> | 1218      | XB32A (2)-4    | 90.42-Q2     |
| 10    | 2.5 mm <sup>2</sup> | 6500      | XB32A (2)-5    | 67-U3        |
| 11    | 2.5 mm <sup>2</sup> | 6500      | XB32A (2)-5    | XB32A (1)-10 |
| 12    | 2.5 mm <sup>2</sup> | 1217      | XB32A (2)-6    | 90.42-Q1     |
| 13    | 2.5 mm <sup>2</sup> | 1217      | XB32A (2)-6    | XB32A (1)-12 |
| 15    | 2.5 mm <sup>2</sup> | 1201A     | XB32A (2)-7    | XB32A (1)-6  |
| 18    | 2.5 mm <sup>2</sup> | 1202A     | XB32A (2)-8    | XB32A (1)-8  |
| 20    | 2.5 mm <sup>2</sup> | 1204A     | XB32A (2)-9    | XB32A (1)-11 |

|                             |                             |                             |
|-----------------------------|-----------------------------|-----------------------------|
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| SSE/Design                  | SEE/Design                  | Dy.CEE/D-II                 |