

## BILL OF QUANTITY

| SL NO. | VALVE TAG Nos.                                                                           | QUANTITY | UOM  |
|--------|------------------------------------------------------------------------------------------|----------|------|
| 1.1    | SW 85-140<br>(COMMON FOR BOTH UNITS)                                                     | 56       | Nos. |
| 1.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 56       | Nos. |
| 1.3    | Commissioning spares : Gland packing                                                     | 56       | Sets |
| 2.1    | DMCW-104<br>(1 NO. FOR EACH UNIT)                                                        | 2        | Nos. |
| 2.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 2        | Nos. |
| 2.3    | Commissioning spares : Gland packing                                                     | 2        | Sets |
| 3.1    | PW 13,14<br>(COMMON FOR BOTH UNITS)                                                      | 2        | Nos. |
| 3.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 2        | Nos. |
| 3.3    | Commissioning spares : Gland packing                                                     | 2        | Sets |
| 4.1    | DW-3,4,70<br>(COMMON FOR BOTH UNIT),DMCW-26,32,38,85<br>(1 NO. FOR EACH UNIT)            | 11       | Nos. |
| 4.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 11       | Nos. |
| 4.3    | Commissioning spares : Gland packing                                                     | 11       | Sets |
| 5.1    | PW-6,7,10,11<br>(COMMON FOR BOTH UNIT)                                                   | 4        | Nos. |
| 5.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 4        | Nos. |
| 5.3    | Commissioning spares : Gland packing                                                     | 4        | Sets |
| 6.1    | DMCW-99,111<br>(COMMON FOR BOTH UNIT),DMCW-57,58,69(I NO. FOR EACH UNIT)                 | 8        | Nos. |
| 6.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 8        | Nos. |
| 6.3    | Commissioning spares : Gland packing                                                     | 8        | Sets |
| 7.1    | PW-65<br>(COMMON FOR BOTH UNIT)                                                          | 1        | Nos. |
| 7.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 1        | Nos. |
| 7.3    | Commissioning spares : Gland packing                                                     | 1        | Sets |
| 7.4    | Commissioning spares : Actuator O-ring and seal                                          | 1        | Sets |
| 7.5    | Mandatory spares : Complete actuator                                                     | 2        | Sets |
| 8.1    | PW-12,DW-01,02<br>(COMMON FOR BOTH UNIT),DMCW-16,18,45,47,49,51<br>(1 NO. FOR EACH UNIT) | 15       | Nos. |
| 8.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 15       | Nos. |
| 8.3    | Commissioning spares : Gland packing                                                     | 15       | Sets |
| 9.1    | DMCW-41,43<br>(1 NO. FOR EACH UNIT), DMCW-93 (COMMON FOR BOTH UNIT)                      | 5        | Nos. |
| 9.2    | Commissioning spares : Bonnet/ Cover Gasket                                              | 5        | Nos. |
| 9.3    | Commissioning spares : Gland packing                                                     | 5        | Sets |
| 10.1   | DMCW-97<br>(COMMON FOR BOTH UNIT), DMCW-79,80,81,82,83<br>(1 NO. FOR EACH UNIT)          | 11       | Nos. |
| 10.2   | Commissioning spares : Bonnet/ Cover Gasket                                              | 11       | Nos. |
| 10.3   | Commissioning spares : Gland packing                                                     | 11       | Sets |

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| 11.1 | DMCW-40<br>(1 NO. FOR EACH UNIT), DMCW-77,78<br>(1 NO. FOR EACH UNIT)                                                                                    | 6   | Nos. |
| 11.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 6   | Nos. |
| 11.3 | Commissioning spares : Gland packing                                                                                                                     | 6   | Sets |
| 11.4 | Commissioning spares : Actuator O-ring and seal                                                                                                          | 6   | Sets |
| 11.5 | Mandatory spares : Complete actuator                                                                                                                     | 2   | Sets |
| 12.1 | DMCW-113<br>(COMMON FOR BOTH UNIT)                                                                                                                       | 1   | Nos. |
| 12.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 1   | Nos. |
| 12.3 | Commissioning spares : Gland packing                                                                                                                     | 1   | Sets |
| 13.1 | DMCW-73,74<br>(1 NO. FOR EACH UNIT)                                                                                                                      | 4   | Nos. |
| 13.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 4   | Nos. |
| 13.3 | Commissioning spares : Gland packing                                                                                                                     | 4   | Sets |
| 13.4 | Commissioning spares : Actuator O-ring and seal                                                                                                          | 4   | Sets |
| 13.5 | Mandatory spares : Complete actuator                                                                                                                     | 2   | Sets |
| 14.1 | ACW51-65,PW201-220<br>(COMMON FOR BOTH UNITS)                                                                                                            | 35  | Nos. |
| 14.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 35  | Nos. |
| 14.3 | Commissioning spares : Gland packing                                                                                                                     | 35  | Sets |
| 15.1 | DW-6,DW 7-11,DW-13,DW 15-17,DW 19-21,DW 23-27,DW 29-38,DW 40-51,DW-53,55,DW 61-64,DW 66-69, DW 71-73,DW 81-120<br>(COMMON FOR BOTH UNITS)                | 93  | Nos. |
| 15.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 93  | Nos. |
| 15.3 | Commissioning spares : Gland packing                                                                                                                     | 93  | Sets |
| 16.1 | DMCW 20-25,DMCW-55,56,65,68,105,106,107,109,110<br>(1 NO. FOR EACH UNIT); DMCW-91,92<br>(1 NO. FOR EACH UNIT),<br>DMCW 151-230<br>(COMMON FOR BOTH UNIT) | 114 | Nos. |
| 16.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 114 | Nos. |
| 16.3 | Commissioning spares : Gland packing                                                                                                                     | 114 | Sets |
| 17.1 | DMCW-59,66<br>(1 NO. FOR EACH UNIT); DMCW-71<br>(1 NO. FOR EACH UNIT),                                                                                   | 6   | Nos. |
| 17.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 6   | Nos. |
| 17.3 | Commissioning spares : Gland packing                                                                                                                     | 6   | Sets |
| 17.4 | Commissioning spares : Actuator O-ring and seal                                                                                                          | 6   | Sets |
| 17.5 | Mandatory spares : Complete actuator                                                                                                                     | 2   | Sets |
| 18.1 | DW-5,12,14,28,52,54,56 ,57 , DW 76-80<br>(COMMON FOR BOTH UNITS)                                                                                         | 13  | Nos. |
| 18.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 13  | Nos. |
| 18.3 | Commissioning spares : Gland packing                                                                                                                     | 13  | Sets |
| 19.1 | DMCW-67<br>(1 NO. FOR EACH UNIT),                                                                                                                        | 2   | Nos. |
| 19.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                                              | 2   | Nos. |
| 19.3 | Commissioning spares : Gland packing                                                                                                                     | 2   | Sets |

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| 20.1 | ACW41-50<br>(1 NO. FOR EACH UNIT),SWI 121-130,<br>PW 96-105<br>(COMMON FOR BOTH UNITS)                                               | 40 | Nos. |
| 20.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 40 | Nos. |
| 20.3 | Commissioning spares : Gland packing                                                                                                 | 40 | Sets |
| 21.1 | PW-66,DW-18,22,39, 58,59,60,65,74<br>(COMMON FOR BOTH UNITS)                                                                         | 9  | Nos. |
| 21.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 9  | Nos. |
| 21.3 | Commissioning spares : Gland packing                                                                                                 | 9  | Sets |
| 22.1 | DMCW 28-31,34-37,53,54,62,64,115,116<br>(1 NO. FOR EACH UNIT); DMCW 87-90(1 NO. FOR EACH<br>UNIT),DMCW 121-150(COMMON FOR BOTH UNIT) | 66 | Nos. |
| 22.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 66 | Nos. |
| 22.3 | Commissioning spares : Gland packing                                                                                                 | 66 | Sets |
| 23.1 | DMCW 61,63<br>(1 NO. FOR EACH UNIT)                                                                                                  | 4  | Nos. |
| 23.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 4  | Nos. |
| 23.3 | Commissioning spares : Gland packing                                                                                                 | 4  | Sets |
| 23.4 | Commissioning spares : Actuator O-ring and seal                                                                                      | 4  | Sets |
| 23.5 | Mandatory spares : Complete actuator                                                                                                 | 2  | Sets |
| 24.1 | DMCW 27,33,39<br>(1 NO. FOR EACH UNIT); DMCW 86<br>(1 NO. FOR EACH UNIT)                                                             | 8  | Nos. |
| 24.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 8  | Nos. |
| 24.3 | Commissioning spares : Gland packing                                                                                                 | 8  | Sets |
| 25.1 | DMCW 110,112<br>(COMMON FOR BOTH UNIT)                                                                                               | 2  | Nos. |
| 25.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 2  | Nos. |
| 25.3 | Commissioning spares : Gland packing                                                                                                 | 2  | Sets |
| 26.1 | DMCW 17,19,46,48,50,52<br>(1 NO. FOR EACH UNIT)                                                                                      | 12 | Nos. |
| 26.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 12 | Nos. |
| 26.3 | Commissioning spares : Gland packing                                                                                                 | 12 | Sets |
| 27.1 | DMCW 42,44<br>(1 NO. FOR EACH UNIT),DMCW 94(COMMON FOR BOTH<br>UNIT)                                                                 | 5  | Nos. |
| 27.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 5  | Nos. |
| 27.3 | Commissioning spares : Gland packing                                                                                                 | 5  | Sets |
| 28.1 | DMCW 98<br>(COMMON FOR BOTH UNIT); DMCW 84<br>(1 NO. FOR EACH UNIT)                                                                  | 3  | Nos. |
| 28.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 3  | Nos. |
| 28.3 | Commissioning spares : Gland packing                                                                                                 | 3  | Sets |
| 29.1 | DMCW 114<br>(COMMON FOR BOTH UNIT)                                                                                                   | 1  | Nos. |
| 29.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 1  | Nos. |
| 29.3 | Commissioning spares : Gland packing                                                                                                 | 1  | Sets |
| 30.1 | DMCW 96<br>(1 NO. FOR EACH UNIT)                                                                                                     | 2  | Nos. |
| 30.2 | Commissioning spares : Bonnet/ Cover Gasket                                                                                          | 2  | Nos. |

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| 30.3 | Commissioning spares : Gland packing            | 2 | Sets |
| 30.4 | Commissioning spares : Actuator O-ring and seal | 2 | Sets |
| 30.5 | Mandatory spares : Complete actuator            | 2 | Sets |
| 31.1 | DMCW 95<br>(1 NO. FOR EACH UNIT)                | 2 | Nos. |
| 31.2 | Commissioning spares : Bonnet/ Cover Gasket     | 2 | Nos. |
| 31.3 | Commissioning spares : Gland packing            | 2 | Sets |
| 31.4 | Commissioning spares : Actuator O-ring and seal | 2 | Sets |
| 31.5 | Mandatory spares : Complete actuator            | 2 | Sets |
| 32.1 | DMCW 60,72<br>(1 NO. FOR EACH UNIT)             | 4 | Nos. |
| 32.2 | Commissioning spares : Bonnet/ Cover Gasket     | 4 | Nos. |
| 33.1 | PW-8,9<br>(COMMON FOR BOTH UNIT)                | 2 | Nos. |
| 33.2 | Commissioning spares : Bonnet/ Cover Gasket     | 2 | Nos. |
| 34.1 | DMCW 75,76<br>(1 NO. FOR EACH UNIT)             | 4 | Nos. |
| 34.2 | Commissioning spares : Bonnet/ Cover Gasket     | 4 | Nos. |
| 35.1 | DMCW 102<br>(1 NO. FOR EACH UNIT)               | 2 | Nos. |
| 35.2 | Commissioning spares : Bonnet/ Cover Gasket     | 2 | Nos. |
| 36.1 | DMCW 04,05,06<br>(1 NO. FOR EACH UNIT)          | 6 | Nos. |
| 36.2 | Commissioning spares : Bonnet/ Cover Gasket     | 6 | Nos. |