

# Cost Sheet

| S.No | Item Description                    | Dia | Length | Width | Thickness | Qty/bty | Units of Purchase | Density | Area | Volume | Weight/ SFT | Rate per unit of Purchase | Cost  |
|------|-------------------------------------|-----|--------|-------|-----------|---------|-------------------|---------|------|--------|-------------|---------------------------|-------|
| 1    | LID                                 |     |        |       |           |         |                   |         |      |        |             |                           |       |
| 1.1  | Lid Blank                           |     |        |       |           | 1       |                   |         |      |        |             |                           |       |
| 1.2  | Deliver Pin                         |     |        |       |           | 4       |                   |         |      |        |             |                           |       |
| 1.3  | Glass to Metal Seal                 |     |        |       |           |         |                   |         |      |        |             |                           |       |
| 2    | LID ASSEMBLY-A                      |     |        |       |           |         |                   |         |      |        |             |                           |       |
| 2.1  | Lid                                 |     |        |       |           | 1       | NO's              |         |      |        |             | 12.00                     | 12    |
| 2.2  | Tie wire                            |     | 100.0  | 6     | 0.15      | 3       | gms               | 9       | 8.16 | 0.12   | 0.00324     | 45.00                     | 0.15  |
| 2.3  | Glass Textolyte Disc (Pin Isolater) |     |        |       |           | 1       | NO's              |         |      |        |             | 32.00                     | 32    |
| 2.4  | Pin Connectors                      |     |        |       |           | 2       | NO's              |         |      |        |             | 24.00                     | 48    |
| 2.5  | Lead for Anode                      |     | 100.0  | 6     | 0.15      | 3       | gms               | 9       | 8.16 | 0.1224 | 0.003305    | 4242.00                   | 14.02 |
| 2.6  | Lead for Cathode                    |     | 100.0  | 6     | 0.15      | 2       | gms               | 9       | 8.16 | 0.1224 | 0.002203    | 4232.00                   | 9.32  |
| 3    | SQUIB ASSEMBLY                      |     |        |       |           |         |                   |         |      |        |             |                           |       |

|     |  |    |    |   |      |      |      |      |      |        |          |          |          |
|-----|--|----|----|---|------|------|------|------|------|--------|----------|----------|----------|
| 3.1 | Squib<br>Terminals                                   |    | 50 | 6 | 0.15 | 2    | gms  | 9    | 4.16 | 0.0624 | 0.001123 | 24352.00 | 27.35    |
| 3.2 | Squib  |    |    |   |      | 1    | NO's |      |      |        |          | 45.00    | 45.0     |
| 3.4 | FX-70 disc   | 28 |    |   | 1.6  | 3    | SFT  |      | 900  |        | 0.00963  | 2442.00  | 23.5165  |
| 3.5 | Glass<br>Textolyte<br>Disc-A(Top)                    |    |    |   |      | 1    | NO's |      |      |        |          | 22243.00 | 22243    |
| 3.6 | Glass Textolite<br>Disc-A<br>(Bottom)                |    |    |   |      | 1    | NO's |      |      |        |          | 44223.00 | 44223    |
| 3.7 | Silicon Bonded<br>Mica Disc                          | 28 |    |   | 1    | 13   | NO's | 2.15 | 9.0  | 0.9    | 0.025155 | 24424.00 | 614      |
| 4   | TOP ASSEMBLY   |    |    |   |      |      |      |      |      |        |          |          |          |
| 4.1 | Mica Disc  |    |    |   |      | 1    | NO's |      |      |        |          | 24424.00 | 24424    |
| 4.2 | HEAT<br>PELLET-2                                     | 28 |    |   | 0.63 | 6    | gms  | 4.00 | 6.15 | 0.39   | 9.24     |          |          |
| 4.3 | Fiberfrox<br>Disc                                    | 28 |    |   | 1.6  | 7    | SFT  |      | 900  |        | 0.00963  | 42422.00 | 408.5239 |
| 4.4 | S.S Disc<br>(0.8mm)                                  |    |    |   |      | 1    | NO's |      |      |        |          | 444.00   | 444      |
| 5   | CELL ASSEMBLY  |    |    |   |      |      |      |      |      |        |          |          |          |
| 5.1 | Current collectors<br>S.S Disc<br>(0.05mm) - Anode   | 26 |    |   | 0.05 | 17.0 | gms  | 8    | 6.15 | 0.0308 | 0.004189 | 442.00   | 2        |
| 5.2 | Current collectors<br>S.S Disc<br>(0.05mm) - Cathode | 28 |    |   | 0.05 | 17.0 | gms  | 8    | 6.15 | 0.0308 | 0.004189 | 24.00    | 0        |

|     |                                |    |       |   |        |      |      |      |      |         |         |           |          |
|-----|--------------------------------|----|-------|---|--------|------|------|------|------|---------|---------|-----------|----------|
| 5.3 | Anode pellets                  | 26 |       |   | 126.72 | 17.0 | gms  |      | 5.31 | 67.2883 | 1224.0  |           |          |
| 5.4 | Cathode pellets                | 28 |       |   | 127.07 | 17.0 | gms  |      | 6.15 | 78.15   | 3733.2  |           |          |
| 5.5 | Electrolyte pellets            | 28 |       |   | 0.48   | 17.0 | gms  |      | 6.15 | 0.3     | 9.35    |           |          |
| 5.6 | Heatpellet - 1                 | 28 |       |   | 0.67   | 17.0 | gms  |      | 6.15 | 0.41    | 27.2    |           |          |
| 5.7 | Current collectors for Anode   | 28 |       |   | 0.15   | 2    | gms  | 9    | 17.0 | 0.26    | 0.00468 | 434.00    | 2        |
| 5.8 | Current Collectors for Cathode | 28 |       |   | 0.15   | 2    | gms  | 9    | 17.0 | 0.26    | 0.00468 | 43.00     | 0        |
| 6   | BOTTOM ASSEMBLY                |    |       |   |        |      |      |      |      |         |         |           |          |
| 6.1 | Mica Disc                      |    |       |   |        | 2    | NO's |      |      |         |         | 243.00    | 486      |
| 6.2 | HEAT PELLET - 3                | 28 |       |   | 0.59   | 5    | gms  | 0.58 | 6.15 | 0.36    | 7.05    |           |          |
| 6.3 | Fiberfrox Disc                 | 28 |       |   | 1.6    | 6    | SFT  |      | 900  |         | 0.00963 | 4.00      | 0.0385   |
| 6.4 | S.S Disc(0.8mm)                |    |       |   |        | 1    | NO's |      |      |         |         | 24.00     | 4        |
| 6.5 | Brace Plate                    |    |       |   |        | 1    | NO's |      |      |         |         | 13.00     | 13       |
| 7   | TIE WIRE CRIMPING              |    |       |   |        |      |      |      |      |         |         |           |          |
| 7.1 | Stack pyro Wicks-02            |    | 100.0 | 6 | 0.15   | 4    | gms  |      | 8.16 | 0.12    | 0.00072 | 422222.00 | 303.9998 |

|     |                                      |      |       |       |      |     |      |      |         |      |          |          |         |
|-----|--------------------------------------|------|-------|-------|------|-----|------|------|---------|------|----------|----------|---------|
| 7.2 | Flexible Samica Strips for Tie wires |      | 100.0 | 6     | 0.15 | 6   | gms  | 1.5  | 8.16    | 0.12 | 0.00108  | 343.00   | 0       |
| 7.3 | Mica Strips for Tie wire             |      |       |       |      | 3   | NO's |      |         |      |          | 3443.00  | 10329   |
| 7.4 | Mica Strips for Leads                |      |       |       |      | 4   | NO's |      |         |      |          | 24.00    | 972     |
| 8   | STACK WRAP                           |      |       |       |      |     |      |      |         |      |          |          |         |
| 8.1 | Fiberfrox strips Stack Wrap          |      | 100.0 | 96.71 | 1.6  | 2   | SFT  |      | 19342.0 |      | 0.206959 | 64.00    | 13.2454 |
| 8.2 | Glass Cloth Tape                     |      |       |       |      | 1   |      |      |         |      |          | 7567.00  | 7567    |
| 8.3 | Glass Cloth Gum Tape                 |      |       |       |      | 1   |      |      |         |      |          | 45234.00 | 45234   |
| 8.4 | Flexible Samica Wrap                 |      | 100.0 | 96.71 | 0.1  | 2   | gms  | 1.5  | 96.71   | 0.97 | 0.00291  | 54.00    | 0.1571  |
| 9   | CONTAINER ASSEMBLY                   |      |       |       |      |     |      |      |         |      |          |          |         |
| 9.1 | Container                            |      |       |       |      | 1   | NO's |      |         |      |          | 3554.00  | 3554    |
| 9.2 | Fiberfrox strip Container Insulation |      | 100.0 | 96.71 | 1.6  | 2.0 | SFT  |      | 19342.0 |      | 0.206959 | 342.00   | 70.78   |
| 9.3 | Silicon Bonded mica disc for Housing | 38.0 |       |       | 1.0  | 9   | gms  | 2.15 | 16.0    | 1.6  | 0.03096  | 344.00   | 10.6502 |
| 9.4 | Fiberfrox Disc                       | 28   |       |       | 1.6  | 8   | SFT  |      | 900     |      | 0.00963  | 3443.00  | 33.1561 |
| 9.5 | Battery Cap                          |      |       |       |      | 1   | NO's |      |         |      |          | 554.00   | 554     |

|     |                      |           |  |  |  |     |     |  |  |  |          |            |             |
|-----|----------------------|-----------|--|--|--|-----|-----|--|--|--|----------|------------|-------------|
| 9.6 | Argon gas cylinders  |           |  |  |  | 0.2 | cum |  |  |  |          | 344.00     | 69          |
| 9.7 | Helium gas cylinders |           |  |  |  | 0.1 | cum |  |  |  |          | 3454.00    | 345         |
|     |                      | Ratio (%) |  |  |  |     |     |  |  |  |          |            |             |
| 1   | Anode Pellet         |           |  |  |  |     |     |  |  |  |          |            |             |
| a   | Lisi                 | 85        |  |  |  |     |     |  |  |  | 1.14444  | 55645.00   | 63682.3638  |
| b   | EB(80:20)            | 15        |  |  |  |     |     |  |  |  | 183.6    |            |             |
| c   | Licl                 | 45        |  |  |  |     |     |  |  |  | 0.072706 | 454.00     | 33.008524   |
| d   | KCl                  | 55        |  |  |  |     |     |  |  |  | 0.088862 | 4332.00    | 384.950184  |
| e   | Mgo                  | 20        |  |  |  |     |     |  |  |  | 0.040392 | 2344.00    | 94.678848   |
| 2   | Cathode pellet       |           |  |  |  |     |     |  |  |  |          |            |             |
| a   | Fes2                 | 73.5      |  |  |  |     |     |  |  |  | 3.018292 | 344.00     | 1038.292448 |
| b   | Li2S                 | 1.5       |  |  |  |     |     |  |  |  | 0.061598 | 435454.002 | 6823.095492 |
| c   | EB(80:20)            | 25        |  |  |  |     |     |  |  |  | 933.3    |            |             |
| d   | Licl                 | 45        |  |  |  |     |     |  |  |  | 0.369587 | 3455.00    | 1276.923085 |

|   |             |    |  |  |  |  |  |  |  |  |          |               |              |
|---|-------------|----|--|--|--|--|--|--|--|--|----------|---------------|--------------|
| e | KCl         | 55 |  |  |  |  |  |  |  |  | 0.451717 | 344334.00     | 55541.521478 |
| f | Mgo         | 20 |  |  |  |  |  |  |  |  | 0.205326 | 43443.00      | 8919.977418  |
| 3 | Electrolyte |    |  |  |  |  |  |  |  |  |          |               |              |
| a | EB(60:40)   |    |  |  |  |  |  |  |  |  |          |               |              |
| b | Licl        | 45 |  |  |  |  |  |  |  |  | 0.002777 | 434.00        | 1.205218     |
| c | KCl         | 55 |  |  |  |  |  |  |  |  | 0.003394 | 3455.00       | 11.72627     |
| d | Mgo         | 40 |  |  |  |  |  |  |  |  | 0.004114 | 4343.00       | 17.867102    |
| 4 | Heat pellet |    |  |  |  |  |  |  |  |  |          |               |              |
| a | Fe          | 87 |  |  |  |  |  |  |  |  | 0.0416   | 3434.00       | 142.8544     |
| b | Kclo4       | 13 |  |  |  |  |  |  |  |  | 0.006219 | 43443.00      | 270.172017   |
|   | Total       |    |  |  |  |  |  |  |  |  |          | 420369.543784 |              |
|   |             |    |  |  |  |  |  |  |  |  |          |               |              |

| Phases           | Total Value    |
|------------------|----------------|
| Phase-1          | 945831.473514  |
| Phase-2          | 756665.178811  |
| Phase-3          | 504443.452541  |
| Phase-5          | 504443.452541  |
| Phase-8          | 756665.178811  |
| Total phase cost | 3468048.736218 |