

Cost Sheet

| S.No | Item Description | Dia | Length | Width | Thickness | Qty/bty | Units of Purchase | Density | Area | Volume | Weight SFT | Material Cost | 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 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 Textolyte Disc-A(Top) | | | | | 1 | NO's | | | | | 22243.00 | 22243 |
| 3.6 | Glass Textolite Disc-A (Bottom) | | | | | 1 | NO's | | | | | 44223.00 | 44223 |
| 3.7 | Silicon Bonded Mica Disc | 28 | | | 1 | 13 | NO's | 2.15 | 9.0 | 0.9 | 0.025155 | 24424.00 | 614 |

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|-----|--|----|--|--|--------|------|------|------|------|---------|----------|----------|----------|
| 4 | TOP ASSEMBLY | | | | | | | | | | | | |
| 4.1 | Mica Disc | | | | | 1 | NO's | | | | | 24424.00 | 24424 |
| 4.2 | HEAT PELLET-2 | 28 | | | 0.63 | 6 | gms | 4.00 | 6.15 | 0.39 | 9.24 | | |
| 4.3 | Fiberfro Disc | 28 | | | 1.6 | 7 | SFT | | 900 | | 0.00963 | 42422.00 | 408.5239 |
| 4.4 | S.S Disc (0.8mm) | | | | | 1 | NO's | | | | | 444.00 | 444 |
| 5 | CELL ASSEMBLY | | | | | | | | | | | | |
| 5.1 | Current collectors S.S Disc (0.05mm) - Anode | 26 | | | 0.05 | 17.0 | gms | 8 | 6.15 | 0.0308 | 0.004189 | 442.00 | 2 |
| 5.2 | Current collectors S.S Disc (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 | Fiberfro 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 |

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|-----|--------------------------------------|-----------|-------|-------|------|-----|------|------|---------|------|----------|-----------|----------|
| 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 | Fiberox 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 | Fiberox 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 | Fiberox 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 | | | | | | | | | | | | |

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|---|----------------|------|--|--|--|--|--|--|--|--|----------|-----------|---------------|
| 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 | 435454.00 | 26823.095492 |
| c | EB(80:20) | 25 | | | | | | | | | 933.3 | | |
| d | LiCl | 45 | | | | | | | | | 0.369587 | 3455.00 | 1276.923085 |
| e | KCl | 55 | | | | | | | | | 0.451717 | 344334.00 | 155541.521478 |
| 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 |

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|--|-------|---------------|
| | 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 |