

# ANNEXURE - IV

| Sl. No. | Description of Investment Item                           | Amount in Rs. Lakhs |
|---------|----------------------------------------------------------|---------------------|
| 1       | Company Project Cost Rs.                                 | 86,76.14            |
| 2       | Subsidy/Grants Project cost Rs.                          | 86,76.14            |
| 3       | Total Project Cost                                       | 173.52              |
| 4       | Capital cost per MW with bank financing                  | 102.25              |
| 5       | Capital cost per MW with Govt. Subsidy                   | 6.12 Rs./kW         |
| 6       | Production cost Rs./kWh                                  | 7.15 Rs./kWh        |
| 7       | Cost of Steam for Boilers Rs./hr                         | 700 Rs./hr          |
| 8       | Total Cost Rs. G. D. rate 2.5.00                         | 3,105.7000          |
| 9       | Cost of Electricity for Boilers and G. D. rate Rs. G. D. |                     |
| 10      | Total cost Rs. G. D.                                     | 3,996.7000          |
| 11      | Capital cost per MW                                      |                     |
| 12      | Cost of Steam for Boilers Rs./hr                         | 1221.50             |
| 13      | Cost of Electricity for Boilers Rs./hr                   | 1,080.50            |
| 14      | Cost of Steam for Boilers Rs./hr                         |                     |
| 15      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 16      | Cost of Steam for Boilers Rs./hr                         |                     |
| 17      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 18      | Cost of Steam for Boilers Rs./hr                         |                     |
| 19      | Cost of Electricity for Boilers Rs./hr                   |                     |
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| 93      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 94      | Cost of Steam for Boilers Rs./hr                         |                     |
| 95      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 96      | Cost of Steam for Boilers Rs./hr                         |                     |
| 97      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 98      | Cost of Steam for Boilers Rs./hr                         |                     |
| 99      | Cost of Electricity for Boilers Rs./hr                   |                     |
| 100     | Cost of Steam for Boilers Rs./hr                         |                     |

\* To substantiate commercial information the Engineering faculty shall provide priority on their demand order cost.

Chief Engineer  
Co-operative

General Manager

**APPENDIX 05 - 30**

| No.<br>Rev. | TECHNICAL DATA                                                                     | SEASON                                         | OFF SEASON                                     |
|-------------|------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 1           | Conditioning Capacity Required                                                     | 1,100                                          |                                                |
| 2           | Conditioning Capacity Required                                                     | 1,100                                          |                                                |
| 3           | Conditioning Capacity Required for Design<br>condition (Average of 7 best 5 years) | 1,100                                          |                                                |
| 4           | Water Parameters: Humidity ratio/Temp of 20°C<br>(Cooling)                         | 8.1 kg/m <sup>3</sup><br>20.6°C/67°F<br>80 TPD | 8.7 kg/m <sup>3</sup><br>22.0°C/72°F<br>80 TPD |
| 5           | Water Parameters: Humidity ratio/Temp of 20°C<br>(Heating)                         | 8.7 kg/m <sup>3</sup><br>20.6°C/67°F<br>80 TPD | 8.7 kg/m <sup>3</sup><br>22.0°C/72°F<br>80 TPD |
| 6           | C.O. Unit Type & capacity (Cooling)                                                | 2000-25 MBH                                    | 1000-10 MBH                                    |
| 7           | C.O. Unit Type & capacity (Heating)                                                | 1000-10 MBH                                    | 1000-10 MBH                                    |
| 8           | Operating Cost                                                                     | 0.0                                            | -                                              |
| 9           | System Refrigerant (R410A)                                                         | 44 TPD                                         | 44 TPD                                         |
| 10          | System Compressor & unit type for design<br>condition                              | 1.0                                            |                                                |
| 11          | System to HP (Heating)                                                             | 1.0 TPD                                        |                                                |
| 12          | System compressor to Chiller (Cooling)                                             | 1.0 TPD                                        |                                                |
| 13          | System compressor to Chiller (Heating)                                             | 1.0 TPD                                        |                                                |
| 14          | System Chiller capacity (MBH)                                                      | 1.0 TPD                                        |                                                |
| 15          | System Chiller efficiency (COP)                                                    | 4.5                                            |                                                |
| 16          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 17          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 18          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 19          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 20          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 21          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 22          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 23          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 24          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 25          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 26          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 27          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 28          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 29          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 30          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 31          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 32          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 33          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 34          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 35          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 36          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 37          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 38          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 39          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 40          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 41          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 42          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 43          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 44          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 45          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 46          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 47          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 48          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 49          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 50          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 51          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 52          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 53          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 54          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 55          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 56          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 57          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 58          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 59          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 60          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 61          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 62          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 63          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 64          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 65          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 66          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 67          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 68          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 69          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 70          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 71          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 72          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 73          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 74          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 75          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 76          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 77          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 78          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 79          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 80          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 81          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 82          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 83          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 84          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 85          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 86          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 87          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 88          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 89          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 90          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 91          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 92          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 93          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 94          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 95          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 96          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 97          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 98          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 99          | System Chiller (COP)                                                               | 4.5                                            |                                                |
| 100         | System Chiller (COP)                                                               | 4.5                                            |                                                |

  
 Professional Engineer  
 Registration