

6690/2020/PS-PEM-MAX

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| <b>SUGGESTIVE PRICE FORMAT</b><br><b>ANNEXURE-IV</b><br><b>GUARANTEED POWER CONSUMPTION FORMAT</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    |                                                     | Doc No: PE-PF-463-571-A001 |  |
|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    |                                                     | Rev No: 0                  |  |
|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    |                                                     | Date of issue:16-05-2020   |  |
| NAME OF PROJECT:                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | BRBCL, NABINAGAR STPS 4x250 MW                     |                                                     |                            |  |
| NAME OF PACKAGE:                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | GYPSUM DEWATERING SYSTEM (VACUUM BELT FILTER TYPE) |                                                     |                            |  |
| TECHNICAL SPECIFICATION:                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          | PE-TS-463-571-A101                                 |                                                     |                            |  |
|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    |                                                     |                            |  |
| Sl.No.                                                                                             | Description / Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Working  | Stand by                                           | Power Consumption (KW)<br>(at motor input terminal) | Power Consumption (KW)     |  |
| <b>1</b>                                                                                           | <b>2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>3</b> | <b>4</b>                                           | <b>5</b>                                            | <b>6 = 3 x 5</b>           |  |
| a.                                                                                                 | Vacuum Belt Filter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 1        | 1                                                  |                                                     |                            |  |
| b.                                                                                                 | Vacuum Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1        | 1                                                  |                                                     |                            |  |
| c.                                                                                                 | Cake Wash Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 1        | 1                                                  |                                                     |                            |  |
| d.                                                                                                 | Belt Filter Wash Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1        | 1                                                  |                                                     |                            |  |
| e.                                                                                                 | Belt Filter Vent Fan                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | 1                                                  |                                                     |                            |  |
| f.                                                                                                 | Filtrate Extraction Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1        | 3                                                  |                                                     |                            |  |
| g.                                                                                                 | Seal water Sump Pump                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1        | 1                                                  |                                                     |                            |  |
|                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    | <b>Total Guaranteed power<br/>(KW)</b>              |                            |  |
| <b>Notes</b>                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |          |                                                    |                                                     |                            |  |
| <b>1</b>                                                                                           | Power consumption (KW) of motors shall be measured at motor input terminals when the system operating at the rated capacity. For this purpose, the drives of standby equipment shall not be considered. Duty factor of all mentioned drives should be considered as 1.0 while quoting power consumption.                                                                                                                                                                                                                                                                                                                                                       |          |                                                    |                                                     |                            |  |
| <b>2</b>                                                                                           | The minimum value of the total guaranteed power consumption quoted amongst techno commercially qualified bidders shall be taken as the guaranteed base power for the bid evaluation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                    |                                                     |                            |  |
| <b>3</b>                                                                                           | The total guaranteed power consumption quoted by the bidders at column no. (7) shall be loaded at the rate of USD 1746 per KW for the differential power quoted over the guaranteed base power arrived as mentioned at S.N. 2 above.                                                                                                                                                                                                                                                                                                                                                                                                                           |          |                                                    |                                                     |                            |  |
| <b>4</b>                                                                                           | Power quoted by bidder shall be termed as 'Guaranteed Power consumption' (GPC) and bidder shall be liable to demonstrate compliance to GPC value during PG test/ Demonstration test at site. If the actual power consumption exceeds the guaranteed power consumption, liquidated damages shall be payable by the successful bidder at the rate of 2129 USD per KW excess power consumption, over the guaranteed power consumption indicated by bidder in his bid. Such liquidated damages may be recovered by the BHEL by deduction from the contract price or by enforcing the contract performance guarantee or in any other manner deemed fit by the BHEL. |          |                                                    |                                                     |                            |  |
| <b>5</b>                                                                                           | Any equipment/ item required by bidder as per their proven design to make 'vacuum belt filter' complete/ operational and is operating on continuous basis, shall be considered under S.N. 'a' in the GPC format, i.e., "Vacuum belt filter" and the power consumption shall be quoted accordingly.                                                                                                                                                                                                                                                                                                                                                             |          |                                                    |                                                     |                            |  |
| <b>6</b>                                                                                           | USD conversion rate shall be taken as defined in NIT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |          |                                                    |                                                     |                            |  |