

SCOPE MATRIX

| Sl.NO | DESCRIPTION | SUPPLY | | ERECTION & COMMISSION | | BHEL REPLY |
|-------|---|--------|--------|-----------------------|--------|--|
| | | CLIENT | VENDOR | CLIENT | VENDOR | |
| 1 | MCC Panel | X | | X | | Noted. |
| 2 | Incomer cable to MCC panel | X | | X | | |
| 3 | Power, control and signal cables for bidder supplied drives and instruments | X | | X | | Noted, however any special cable required (Example: Co-axial cables between Level sensor and controller) is in the scope of Vendor. |
| 4 | Cable Trays, Cable glands and lugs for Above mentioned cables | X | | X | | |
| 5 | PLC (If required) | X | | X | | |
| 6 | PLC to DCS Connection | X | | X | | |
| 7 | Instruments to JB, JB to PLC & MCC/LCP to PLC complete Instrument cables | X | | X | | Noted, however any special cable required (Example: Co-axial cables between Level sensor and controller) is in the scope of Vendor. |
| 8 | UPS for PLC and Instruments | X | | X | | |
| 9 | Plant Lighting | X | | X | | |
| 10 | Above & Below Ground Earthing | X | | X | | |
| 11 | A/C, Ventilation | X | | X | | |
| 12 | All electrical Approvals | X | | X | | Drawing/Documents shall be approved by RRVUNL/TCE, Vendor shall depute his engineer to customer office for approval. |
| 13 | Instruments | | X | | X | Including Hardware required for mounting the Instruments. |
| 14 | Local Control cum power panel for Clarifloculator | | X | | X | Noted. |
| 15 | Local Control cum power panel for Sludge Sump | | X | | X | |
| 16 | LPBS | | X | | X | |
| | | | | | | Design, Supply, Unloading ,Storage, E&C, Trial run and Operation of Motors/LPBS/Local Control Panels/Field Instruments & mounting Hardware/Special cables required, All the Electrical and C&I drawings, Control Philosophy ,Protocol Preparation, PG Test and Handing over to RRVUNL is in the scope of bidder. |