TECHNICAL SPECIFICATION FOR VARIOUS CAPACITY HT MOTORS

1) **Service Air Compressor motor:**
   FRAME SIZE: Y2-450-4, POWER (KW): 350KW,
   VOILTAGE (V): 11 KV, CURRENT (A): 29.8A,
   FREQUENCY- 50Hz, RPM: 1485,
   EFFICIENCY – 93.7% or higher,
   CONNECTION: Y (STAR), DUTY: S1, PROTECTION: IP54, INSULATION CLASS: F, MOUNTING: B3

2) **Condensate Extraction Pump Motor:**
   FRAME SIZE: YKKL2200-4/1180-1, POWER (KW): 2200KW,
   VOILTAGE (V): 11 KV, CURRENT (A): 136.8A,
   FREQUENCY- 50Hz, RPM: 1493, Power Factor: 0.89,
   EFFICIENCY – 94% or higher,
   CONNECTION: 2Y, DUTY: S1, PROTECTION: IP54, INSULATION CLASS: F, MOUNTING: Vertical

3) **BA Slurry Motor:**
   FRAME SIZE: YKK450-6, POWER (KW) : 200KW,
   VOILTAGE (V): 11 KV, CURRENT (A):14A,
   FREQUENCY- 50Hz, RPM: 991, Power Factor: 0.82,
   EFFICIENCY – 92.4% or higher,
   CONNECTION: Y, DUTY: S1, PROTECTION: IP55, INSULATION CLASS: F, MOUNTING: Horizontal

4) **Coal Mill Motor:**
   FRAME SIZE: YTM800-6TH, POWER (KW): 2200KW,
   VOILTAGE (V): 11 KV, CURRENT (A):146A,
   FREQUENCY- 50Hz, RPM: 984, Power Factor: 0.83,
   EFFICIENCY – 95.1% or higher,
   CONNECTION: 2Y, DUTY: S1, PROTECTION: IP55, INSULATION CLASS: F, MOUNTING: B3

5) **Open Cycle Cooling Water motor:**
   FRAME SIZE: YKK450-6, POWER (KW): 220KW,
   VOILTAGE (V): 11 KV, CURRENT (A):15.7A,
   FREQUENCY- 50Hz, RPM: 992, Power Factor: 0.8,
   CONNECTION: Y, PROTECTION: IP54, INSULATION CLASS: F, MOUNTING: Horizontal

6) **TDBFP Booster Pump Motor:**
   FRAME SIZE: YKK500-4, POWER (KW): 600KW,
   VOILTAGE (V): 11 KV, CURRENT (A):39.4A,
   FREQUENCY- 50Hz, RPM: 1489, Power Factor: 0.86,
   EFFICIENCY – 93% or higher,
   CONNECTION: Y, PROTECTION: IP54, INSULATION CLASS: F, MOUNTING: Horizontal

Notes:

Please also ensure the below mentioned requirements:

1. Motor Efficiency should be higher than the existing motor.
2. Motor characteristic curve should be identical with existing one.
3. Motor should be one to one interchangeable with existing installed motor.
4. Vendor to ensure all associated motor accessories should be same as existing motor like motor winding / bearing temperature control RTD box for local & remote monitoring etc.
5. Main performance parameter to be provided :
    a. Max. torque / Rated torque
    b. Blocked rotor / Rated torque
    c. Blocked current / Rated current
    d. Moment of inertia of motor
    e. Efficiency
6. Bearings and lubrications should be the identical as per existing motors.
7. Motor must have the sufficient capacity space heater as per ambient requirement.
8. Orientation of power cable & neutral side terminal box should be same as our existing motor.