



Client	PMC	LDC & SC	Contractor
Ues áá(Ö) e'íçá ( ^) ó( ^) e'íçá	Ues áá(Ö) e'íçá ( ^) ó( ^) e'íçá	Öes áá(Ö) e'íçá ( ^) ó( ^) e'íçá	T [ á( ^) ] Ö' íçá ( ^) e'íçá

U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá  
 Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá

**Material Submittal (MAT)**

Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input checked="" type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	Á( ^) e'íçá ( ^) ó( ^) e'íçá	U'çá ( ^) e'íçá	Á( ^) e'íçá ( ^) ó( ^) e'íçá
Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>	ITOSCEB B OSCEB B OSPLER OSB0019	06-July-2024	00	
Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	<input type="checkbox"/>	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
Discipline	<input type="checkbox"/>	CE e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>	CE&E	<input type="checkbox"/>
	<input type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>
Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	<input type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>
	<input type="checkbox"/>	(Model)	<input type="checkbox"/>	Á( ^) e'íçá ( ^) ó( ^) e'íçá	<input type="checkbox"/>

Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	F	G	H
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U'É	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	B[ e'íçá ] d[ á( ^) ] e'íçá
F	P4- Makkah - Material Submittal for Grey water Pump - Grundfos / AI Mousa Material Category C3	4MAKA08-MAKA-08-MBL-PL-MAT-00019	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**Material Category C3**

**P4- Makkah - Material Submittal for Grey water Pump - Grundfos / AI Mousa Material Category C3**

**Prime Cost**

U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
P[ e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá

**Lead Design Consultant & Supervision Consultant Comments:**

- The approved vendor has granted approval to the Pump manufacturer. Final approval subjected to client approval as the item is prime cost.
- NPSHR shall be calculated by the contractor based on the site requirement.
- Contractor still not finalized shop drawing, all submitted calculations and graphs without Losses in fittings and valves. Must be re-calculated and verified according to approved shop drawing before ordering materials.
- Shop Drawings: Show layout and connections for pumps. Include setting drawings with templates, directions for installation of foundation and anchor bolts, and other anchorages.
- Wiring Diagrams: Detail wiring for power, signal, and control systems and differentiate between manufacturer-installed and field-installed wiring.
- Operation and Maintenance Data: For each pump specified to include in operation and maintenance manuals specified in Division 1.
- Contractor must follow and comply project specification for warranty from date of substantial completion.
- Contractor to clarify and deal with supplier for extra material as per project specifications.
- All pumps shall be delivered homogeneous throughout and free from visible cracks, holes, foreign inclusions, blisters, dents or other defects are not acceptable.
- Before Material delivery, FAT Test must be done and reports with Manufacturing batch number, date etc, Country of Origin, shall be attached along with delivery note.
- Installation on site shall be done as per approved method of statements and approved drawings following manufacturer recommendation complying HSE requirements.
- Store materials to comply with manufacturer's written instructions to prevent deterioration from moisture or other detrimental effects.
- Engage a factory-authorized service representative to train Employer's maintenance personnel to adjust, operate, and maintain pump units. Refer to Division 1.

S[ e'íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
P[ e'íçá ] d[ á( ^) ] e'íçá	U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá

**Document Status:**

Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	Ö[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá	U[ íçá ( ^) ó( ^) e'íçá ] d[ á( ^) ] e'íçá
	A. Ghonim		