Intl Memo no. 912/109 **-** Construction Date: 10-02-2020

Subject: Details for usage of pumps.

There are various types of pumps and sites must carefully order pumps as per recommendation in this circular. Requisition must clearly mention use of pump. Purchase must order only after correlating usage of pump mentioned in requisition with this circular.

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| SlNo | type of pump & usage | Brand/ model no. | Capacity | Approx. cost including of GST |
| 1 | Dewatering of pits or excavation at site – use self priming, mono-block pumps. Use green hose pipe – 5 mtrs for suction and 5 mtrs for delivery. Size of hose pipe must be equal to or slightly larger than suction/delivery of pump. Do not use foot valve. Use strainer for suction – enclose in metal box of about 18”x 18” x 18” using ¾ L angle and covered with chicken mesh. Output to be connected to properly constructed manhole. Avoid use of flat pipes. However, if flat pipes are used connect them to 5 mtr hose pipe and not to the pump. 1HP should be single phase. 3HP/5HP should be 3 phase.  | Kirloskar / Crompton | Typically each site should have one pump of 1HP and one pump of 3HP. Sites with lots of water may also purchase a 5HP pump. | 1HP – Rs. 12,100/-2HP – Rs. 15,470/-3HP – Rs. 19,200/- |
| 2 | Dewatering of large pools of water greater than 50,000 ltrs. Use submersible dewatering pump with auto on/off.  | Kirloskar / Crompton/KSB | 5HP | Rs. 26,000/-  |
| 3 | Dewatering back-up pump. Diesel pump may be used. Do not use for small pits. | Kirloskar  | 3HP or 5HP | Rs. 32,000/-  |
| 4 | Borewells – details of borewell pump size and no. of stages will be determined by supplier based on details given in standard requisition. Upto 1.5HP order single phase and higher capacity in 3phase. | KSB | 1HP to 7.5 HP | 1.5 – Rs. 13,749/-2 – Rs. 17,351/-3 – Rs. 18,511/-4 – Rs.29,045/- 5 – Rs. 22,777/- 7.5 – Rs. 41,950/- |
| 5 | Septic tank – use cutter type sewage pump  | Kirloskar | 1.75 to 2.5 HP | 1.75 HP – Rs. 17,700/-2.5 HP – Rs. 22,700/- |
| 6 | Pressure booster pump – use in villas with low OHT | Vilo | 0.5 to 1HP | 0.5 HP – Rs. 8,600/- |
| 7 | Sumps for water supply – use open well submersible pump. Use 3 phase pumps.  | Kirloskar/ Crompton | 2HP to 7.5HP | 2 HP – Rs. 11,000/-3 HP – Rs. 15,288/-5 HP – Rs. 17,017/- 7.5 HP – |

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| 8 | Sumps for water supply for curing – use open well submersible pump. Single phase pump upto 1.5HP and 3 phase for higher capacity pumps. | Kirloskar/ Crompton | 1 to 2HP for upto 5 floors. 2 to 3 HP for 7 to 9 floors. 3 to 5 HP for 10 to 12 floors.  | 1 HP – Rs. 11,000/-3HP – Rs. 15,288/-5HP – Rs. 17,360/- |
| 9 | Curing using plastic tanks of 500 to 1,000 ltr capacity (for some villa projects). Use single phase mono-block pumps. | Kirloskar/ Crompton | ½ HP to 1HP. | 0.5HP – Rs. 2,350/-1HP – Rs. 4,008/- |

Notes:

1. Pump should be ordered along with rest of fittings like flanges, bends, GI fittings, nipples, nozzle, valve, union, plug, etc.
2. Order electronic starter for all pumps. For small pumps and dewatering pumps (item no. 1 above) use L&T make manual starters.
3. For borewells order HDPE pipes and cable.
4. For pumps upto 3HP use 7/20 Al. service wire. For 3 phase and higher capacity pumps use cable of appropriate size. Provide power upto starter using 4/6/10 sqmm 4 core aluminum armored cable.

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