

Specifications (5 H.P Diesel operated pump trolley mounted)

Specification no BHEL/JHS/FCX/PUMP/01 (R)

PI no 37120062 dt 4/12/2012

Supply ,installation and commissioning of directly coupled diesel operated 5.0 HP pump Backpull out self priming with starter for dewatering application ,self priming pumpset inclusive suitable trolley for transportation

1. Total Head : 12 Metres(Min)
2. Capacity : 25 KL/hr (min)
3. Temperature: upto 40 degree centimeter
4. Casing and impeller - cast iron
5. Shaft : Chrome steel
6. Suitable for operation under submerged condition in mud water.
7. Motors is water imersed and fitted with good quality oil seal.
8. Suitable for applications where wide water level fluctuations take place in suction side.
- 9.All internal parts of motor should be specially coated with primer to prevent rusting for longer life.
- 10.All rotating parts are dynamically balanced for longer bearing life and vibration free smooth and silent operation.
 11. Type : Water cooled
 12. No. of Cylinder: 1
 13. kW: 3.7
 14. BHP: 5
 15. Speed (RPM): 1500
 16. Bore (mm):80
 17. Stroke (mm):110
 18. No of stroke: 4
 19. Fuel Tank Capacity (Litre):6.5(min)
 20. Lub. Oil Consumption (g/kWh) :2.45(approx)
 21. Sleeve: Brass
 22. Impeller: Graded Cast Iron
 23. Bracket : Graded Cast Iron
 24. Suction Flange : Graded Cast Iron
 25. Volute Casing: Graded Cast Iron
 26. Gland Packing Set: Threaded Graphite Cotton
 27. Lantern Ring :Brass 8
 28. Fly Wheel: Graded Cast Iron
 29. Delivery Flange: Graded Cast Iron
 30. Pipe Size : 100 X100 mm
 31. Speed : 1500 RPM
 32. Rotation : clockwise while facing the flywheel end
 33. Moving Trolley :M S fabricated
 34. Type of pump: Back pull out
 35. Fuel supply: Fuel pump by gravity feed through tank
 36. Starting: Hand start or battery start
 37. Liquid Water

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| 38. Efficiency at duty point: 65% (min) | Vendor to specify |
| 39. Dimensions of pump set: | Vendor to specify |
| 40. Weight of pump set: | Vendor to specify |
| 41. Make and model of Diesel engine : | Vendor to specify |
| 42. <i>Detail of suitable trolley :</i> | Vendor to specify |
| 43. Compression Ratio: | Vendor to specify |
| 44. Cubic Capacity (Litre): | Vendor to specify |
| 45. Fuel Consumption (g/kWh): | Vendor to specify |
| 46. Lub. Oil Sump Capacity (Litre): | Vendor to specify |
| 47. Centre Ht.of Crank Shaft (mm): | Vendor to specify |
| 48. Engine Bare Wt. (kg. Apprx.): | Vendor to specify |
| 49. Packed Weight (kg. Apprx.): | Vendor to specify |
| 50. Packing Case Volume (Cu.M.): | Vendor to specify |
| 51. Pump Coupling: Graded Cast Iron | Vendor to specify |
| 52. Governor: | Vendor to specify |
| 53. Make-KIRLOSKAR/TATA / BHARAT SHAKTI /CATER PILLER/BOTLIBOY OR REPUTED BRAND ONLY | |

QUALIFYING CRITERIA

Offer of Manufacturer and their Authorised Dealers/Distributors of above make shall be accepted only. In case of Dealers/distributors, please submit their authorisation certificate along with their offer.


(K D Gupta)
Dy Mgr- FCX