



**water & sanitation**

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

**SUPPLEMENTARY WATER USE INFORMATION  
TAKING WATER FROM A WATER RESOURCE  
PUMP TECHNICAL DATA**

**1. PUMP IDENTIFICATION**

1.1 Pump number (if more than one, enter a sequence number starting from 001) 0 0 1

1.2 Installation date Y Y Y Y M M D D

1.3 Geographic location of the pump (use one format only)

S  °  ',  . " or  S  .       or  S  °  ',  . " Cape datum Clarke

E 0  °  ',  . "  E 0  .          WGS-84 datum

**2. PUMPING HOURS**

2.1 Maximum pumping hours per week  h      2.2 Total pumping hours per year  h

**3. PUMP DATA**

3.1 Pump type (mark one with X)

a) Centrifugal       b) Positive displacement       c) Turbine       d) Axial flow

e) Other (specify)

3.2 Pump model

3.3 Pulley diameter  mm

3.4 Speed  rpm

3.5 Impeller size (only for a centrifugal pump)  mm

3.6 Suction hose

3.6.1 Hose material

3.6.2 Hose diameter  mm

3.6.3 Hose length  m

3.7 Type of flow meter (mark one with X)

a) Inline       b) Bypass       c) Doppler effect       d) None       e) Other (specify below)

3.8 Pressure gauge reading      At inlet =  m      At outlet =  m

**4. POWER SOURCE DATA**

4.1 Power source type (mark one with X)

a) Electric    
  b) Diesel    
  c) Petrol    
  d) Tractor    
  e) Wind  
 f) Other (specify)

4.2 Model

4.3 Pulley diameter  mm

4.4 Speed  rpm

4.5 Coupling:

a) Type (mark one with X)

V-belt    
  Flat belt    
  Gearbox    
  Direct    
  Other (specify below)

b) For gearbox coupling or direct coupling, enter the ratio  :

4.6 Power rating  kW

**5. PUMP OPERATION**

	Maximum pressure	Maximum discharge	Average operation	
5.1 Discharge	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	litres / second
5.2 Suction height	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.3 Static height	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.4 Working height	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.5 Friction height	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.6 Other losses	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.7 Total head	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	metres
5.8 Efficiency	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	%
5.9 Power absorbed	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	kilowatts
5.10 Ammeter reading	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	<input style="width: 40px; height: 15px;" type="text"/>	amps

**6. BOREHOLE INFORMATION (where applicable)**

6.1 a) Borehole number

b) Geographic location of the borehole, if different from pump

S ° ', ', '' or  S ° ' or  S ° ', Cape datum Clarke   
 E 0 ° ', ', '' or  E 0 ° ' or  E 0 ° ', WGS-84 datum

6.2 Yield of borehole  litres / second

6.3 Depth of borehole  metres

6.4 Previous authorisation or licensing reference

**7. ESKOM TRANSFORMER (where applicable)**

7.1 a) ESKOM reference number

b) Geographic location of the transformer, if different from pump

<input type="text"/>	°	<input type="text"/>	,	<input type="text"/>	.	<input type="text"/>	”	or	<input type="text"/>	°	<input type="text"/>	”	or	<input type="text"/>	°	<input type="text"/>	,	<input type="text"/>	.	<input type="text"/>	”	Cape datum Clarke	<input type="checkbox"/>		
<input type="text"/>	0	°	<input type="text"/>	,	<input type="text"/>	.	”		<input type="text"/>	0	°	<input type="text"/>	”		<input type="text"/>	0	°	<input type="text"/>	,	<input type="text"/>	.	<input type="text"/>	”	WGS-84 datum	<input type="checkbox"/>

7.2 Power rating of the transformer  kVA

**FOR OFFICIAL USE ONLY**

File number

Water use licence or registration number

Water Management Area

Received by:

Surname	<input type="text"/>	Initials	<input type="text"/>
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Rank

Signature

Captured by:

Initials

*Date stamp of receiving office*