

Bill of Quantity (BOQ)
Name of work: Supplying of Shallow Trench Materials for Installation of SWT
Type of pipe system use: UPVC

| S.N | Description of the work | Size of pipe | 114 mm OD dia | Required Specifications | Offered Specifications | Unit | Qty | Rate | Amount | Amount in word | Remarks |
|------------------------------------------------------|-----------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------|-------|------|--------|----------------|---------|
| <p>Office Name: AKC Rautahar Formation, Sofi</p> | | | | | | | | | | | |
| <p>A. STW Construction</p> | | | | | | | | | | | |
| <p>Materials</p> | | | | | | | | | | | |
| 1 | UPVC Pipe | 114mm OD dia. | (2.40-2.50kg/RM) | | | mm | 16.0 | | | | |
| 2 | PVC Ribbed Screen Filter | 114mm OD dia. | (2.40-2.50kg/RM) | | | mm | 6.0 | | | | |
| 3 | G.I. Pipe | Class Medium Dia. | 114mm OD/INB | Weight > 16kg (wall thickness > 4.3mm) length 1.50 m, having both side lined and writing office code name with red colour enamel paint | | no. | 1.0 | | | | |
| 4 | G.I. Bottle Tee- reducer | 4"x3"x1.5" | weight - 2.8-3.2 Kg. | | | no. | 1.0 | | | | |
| 5 | G.I. Check valve | Weight | 3.10-3.50kg. | | | no. | 1.0 | | | | |
| 6 | PVC well plug | 4" | PVC for bottom of SWT Hole | | | no. | 1.0 | | | | |
| 7 | MS hand pump small | Weight | 12.3-2.50kg. | | | no. | 4.0 | | | | |
| 8 | Water seal. Head latre | 2(1.9-2.3" | 0.20mm | 0.35g/cm | | roll | 5.0 | | | | |
| 9 | Nylon rope | wt. of one roll | > 36gm. & dia. > 2 mm | | | gm | 100.0 | | | | |
| 10 | M-seal | wt. | 100gm (contains 50gm of Resin) base and 50gm of hardener) | | | ml | 400.0 | | | | |
| 11 | PVC Solvent Cement | PVC content | > 10.5% by mass, use for joining of UPVC pipe and its | | | rm | 1.0 | | | | |
| 12 | Section pipe | Dia | 3" OD. poly(vinyl chloride)(PVC) For 2HP electric motor | | | no. | 1.0 | | | | |
| 13 | Elbow (Band L) | GI dia | 3" for delivery head (outlet) of 2HP electric motor | | | no. | 1.0 | | | | |
| 14 | G.I Nipple | GI dia | 3" & length. 24" for suction and delivery head side(inlet/outlet) of 2HP electric motor | | | no. | 2.0 | | | | |
| 15 | Force nipple | Dia | 3" Bras length > 4" for delivery head side(outlet) of 2HP electric motor | | | no. | 1.0 | | | | |
| 16 | Centrifugal pump (Electric Motor) | Power(Hp) | 2 Size (inlet/outlet) 80mmX50mm Head range - 6 m to 12m, Phase - 1 Voltage - 160V-240V Maximum current - 13.5A, Mini rpm - 2600 rev./min. Mini Discharge 8 lps | Application/Purpose: Used to supply water to the field for irrigation. Block Heavy duty monoblock type Winding Pure copper winding. Leakage proofing. Stainless steel mechanical seal. Impeller: forged brass/Alloy. Pump shaft: Stainless steel. Operating manual english. Certification: IS/BS/ANS. Make: Kirloskar/Bharat industries/Compton/Siemens/CRTI Shrasdha or Equivalent | | set. | 1.0 | | | | |
| <p>Sub-Total</p> | | | | | | | | | | | |
| <p>Total Cost of Materials</p> | | | | | | | | | | | |
| <p>Vat 13%</p> | | | | | | | | | | | |



Handwritten signature and name: **श्री. क. प्रसाद**
 श्री. क. प्रसाद

Bill of Quantity (BOQ)

FY: 2078/079

Name of work: Supplying of Shallow Tubewell Materials (for Installation of SWT)

Type of Pipe System use: HDPE

Size of pipe: 144mm OD dia

Depth: 24m

| S.N. | Description of the work | Required Specifications | Offered Specifications | Unit | Qty | Rate | Amount | Amount in Word | Remarks | |
|-------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|--------|----------------|---------|--|
| A | STW Construction Materials | | | | | | | | | |
| 1 | HDPE Pipe | Dia. 114 mm OD, 6kg pressure, NS 40 or Equivalent | OD/NB- Class Medium Dia. 114mm >18kg wall thickness >4.5mm) length 1.50 m, having both side thread and writing office code name with red colour enamel paint. | rm | 24.0 | | | | | |
| 2 | G.I. Pipe | 100mm weight | | no | 1.0 | | | | | |
| 3 | G.I. Bottle Tee- reduce | 4"x3"x1 5", weight: 2.8-3.2 Kg | | no | 1.0 | | | | | |
| 5 | Hand pump small | MS, wt. 2.2-2.50KG | | m | 5.0 | | | | | |
| 6 | Silver net(Mesh) | material silver, max mesh width: 18" for filter in HDPE Pipe(Filter strait) | | no | 4.0 | | | | | |
| 7 | Water seal tread tape | 19"x23" 0.2mm * 0.35/g/cm | | roll | 5.0 | | | | | |
| 8 | Nylon rope | wt of one roll 236gm & dia. ≥ 2.5mm | | gm | 100.0 | | | | | |
| 9 | M-seal | wt 100gm (contains 50gm of Resin base and 50gm of hardener) | | rm | 1.0 | | | | | |
| 10 | Section pipe | Dia 3" OD/polyvinyl chloride(PVC) For 2HP electric motor | | no | 1.0 | | | | | |
| 11 | Elbow (Bandh) | GI dia. 3", for delivery head (outlet) of 2HP electric motor. | | no | 2.0 | | | | | |
| 12 | G.I. Nipple | GI dia. 3" & length 24", for suction and delivery head side(inlet&outlet) of 2HP electric motor | | no | 1.0 | | | | | |
| 13 | Force nipple | Dia 3" Bras length ≥ 4' for delivery head side(outlet) of 2HP electric motor | | | | | | | | |
| 14 | Centrifugal pump (Electric Motor) | Power(Hp): 2. Size(inlet&outlet) 30mmX80mm Head range: 6 m to 12m Phase -1 Voltage- 160V-240V, Maximum current 13.5A, Mini. rpm: 2600 rev/min. Mini Discharge: 8 lbs | Application/Purpose: Used to supply water to the field for irrigation. Block- Heavy duty monoblock type Winding- Pure copper winding. Leakage proofing- Stainless steel mechanical seal. Impeller- forged brass/Alloy. Pump shaft- Stainless steel. Operating manual- english Certification- ISONS/INS. Make: Kirloskar/Bharat industries/Compton/Saimens/CRIShatarach a or equivalent | Set | 1.0 | | | | | |
| Sub-Total | | | | | | | | | | |
| Total Cost of Materials | | | | | | | | | | |
| Vat 13% | | | | | | | | | | |



Dr. B. Narayanaiah
(Signature)

ಶ್ರೀ ಬಿ. ನಾರಾಯಣಾಚಾರ್ಯ
 ಸಹಾಯಕ ಕರ್ನಾಟಕ ಸರ್ಕಾರ

Dr. Uday K. Thakur
 Agri. Engineer
 2009 Agriculture