

### Abstract

**Name of Work :-** Providing & fitting of new gear box to butterfly valve and repairs to leakages through Ø 200 mm KAV with isolating sluice valve of delivery pipe & Rising Main pipe and at Khadakpurna LIS stage - 2  
Dist.Buldhana during 2026-27

| Dist.Buldhana during 2026-27 |                                                                                                                                                                                                                                                            |  |        |    |    |      |     |                |                    |  |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------|----|----|------|-----|----------------|--------------------|--|
| S.N                          | Description of items/work                                                                                                                                                                                                                                  |  |        |    |    | Qty. |     | Rate Rs.       | Amt. Rs.           |  |
| 1                            | Providing & fitting of spares for repairs to leakages through KAV with isolating sluice valve of size Ø 200 mm PN-1.6 . Total Qty. 15 no.                                                                                                                  |  |        |    |    | 1    | No  | 112500         | 112500             |  |
|                              | Low Pressure Float                                                                                                                                                                                                                                         |  | 250    | mm | 15 | no   |     |                |                    |  |
|                              | High Pressure Float                                                                                                                                                                                                                                        |  | 150    | mm | 15 | no   |     |                |                    |  |
|                              | Low Pressure Seat                                                                                                                                                                                                                                          |  | as per |    | 15 | no   |     |                |                    |  |
|                              | High Pressure Seat                                                                                                                                                                                                                                         |  | sample |    | 15 | no   |     |                |                    |  |
| 2                            | Providing Flange gasket for flange jointing 2 no each valve of Ø 200 mm KAV & isolating Sluice valve .Total for 15 no. of KAV & ISV.                                                                                                                       |  |        |    |    | 30   | No  | 205<br>254     | 6150<br>7620       |  |
| 3                            | Labour charges for removing & refitting of Air valve/Kinetic Air Valve/ Tamper proof air valve/ surge supression air valve having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments Size 200 mm dia. |  |        |    |    | 15   | no  | 2130           | 31950              |  |
| 4                            | Labour charges for repalcement of large orifice/small orifice float,cover plate,seat ring of Air valve/Kinetic Air Valve/Tamper proof air valve/surge supression air valve having P.N -1.0 & 1.6 rating.Size 200 mm dia.                                   |  |        |    |    | 15   | no  | 884            | 13260              |  |
| 5                            | Labour charges for removing & refitting of isolating sluice valve for gasket replacing having P.N -1.0 & 1.6 rating as per manufacturers instruction manual with all tools,tackles,lifting equipments etc.including lifting charge.size 200 mm dia.        |  |        |    |    | 15   | no  | 2130           | 31950              |  |
| 6                            | Transportation                                                                                                                                                                                                                                             |  |        |    |    |      |     |                |                    |  |
|                              | Distance from Nearest District Jalna to site Khadakpurna LIS Stage -2 & back by 7.5 MT capacity truck. = 95 Km Per trip. 190 km for 2 trip                                                                                                                 |  |        |    |    | 190  | km  | 53.00<br>50.79 | 10070.00<br>9650.1 |  |
| 7                            | Machinery required for welding of nut & bolts of top cover plate of air valve , air valve pipe welding, cutting of nuts & bolts of air valve on rising main and removing & refitting of safety grill over KAV                                              |  |        |    |    |      |     |                |                    |  |
|                              | Rent for welding set with Generator                                                                                                                                                                                                                        |  |        |    |    | 3    | day | 3130           | 9390               |  |
|                              | Pipe cutter with operator                                                                                                                                                                                                                                  |  |        |    |    | 3    | day | 1681           | 5043               |  |
|                              | Rent for chain pully block with tripod for lifting & handling & refitting ,welding of MS grill cover                                                                                                                                                       |  |        |    |    | 3    | day | 614            | 1842               |  |
|                              | Helper for handling M.S grill cover                                                                                                                                                                                                                        |  |        |    |    | 3    | day | 622            | 1866               |  |
|                              | Fitter for handling M.S grill cover                                                                                                                                                                                                                        |  |        |    |    | 3    | day | 641            | 1923               |  |
|                              | welder                                                                                                                                                                                                                                                     |  |        |    |    | 3    | day | 668            | 2004               |  |
|                              | Gland 12 mm                                                                                                                                                                                                                                                |  |        |    |    | 7.5  | Kg  | 494            | 3705               |  |
|                              | Nuts & Bolts                                                                                                                                                                                                                                               |  |        |    |    | 25   | kg  | 106            | 2650               |  |

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      |           |           |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|-----------|-----------|
| 8                 | Providing and applying anticorrosive Coal Tar black IS 290-1961 paint for upstream side in two coats including surface preparation, chipping the welding, cleaning spatters, dust etc. Complete as directed.                                                                                                                                                                                                                                                                                                                                                                                                                 | 32.18 ✓ | Sqm  | 352.05 ✓  | 11328.9 ✓ |
|                   | KAV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 15      | no   |           |           |
|                   | Isolating Sluice Valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15      | no   |           |           |
| 9                 | Providing supplying & Fitting of new gear box assembly to butterfly valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6 ✓     | no   | 57538 ✓   | 345228 ✓  |
|                   | Size of BFV ø 900 mm PN-1.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |           |           |
|                   | Output Torque capacity -15000 Nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |         |      |           |           |
|                   | Input Torque Capacity - 105 Nm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |      |           |           |
|                   | Ratio - 449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |         |      |           |           |
|                   | Gear Box Worm gear type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |      |           |           |
|                   | Suitable for actuator operation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      |           |           |
|                   | Grease lubricants type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |         |      |           |           |
| 10                | Labour charges for removing and refitting of butterfly valve having P.N-1.0 & 1.6 rating from pipe line for repairs. This include replacing of gasket, all tools & tackles, welding, machinery. ø 900 mm EOBFV                                                                                                                                                                                                                                                                                                                                                                                                               | 6 ✓     | no   | 12245 ✓   | 73470 ✓   |
| 11                | Labour Charges for work of repairing of butterfly valve as per manufacturers instruction manual with all tools, tackles etc. This job includes labours required for replacing worn out/damaged spares like end cover, cottor pin, shaft bearing, drive stub shaft seal, thrust face, o ring, greasing ,overhauling and cleaning of drive end & non drive end housing, removing gear box etc. with satisfactory test & trial etc. P.N-1.0 & 1.6 (Excluding spare, Lifting charges extra as applicable) (For valve above 500 mm, If valve to be repaired in workshop transportation charges will be paid extra. ø 900 mm EOBFV | 6 ✓     | no   | 12010 ✓   | 72060 ✓   |
| 12                | Providing rubber Gasket EPDM for flange joint. ø 900 mm EOBFV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 12 ✓    | no   | 2532 ✓    | 30384 ✓   |
| 13                | Loading in vehicle and unloading & in workshop repairing ø 900 mm EOBFV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |         |      |           |           |
|                   | Crane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18 ✓    | hrs  | 1879 ✓    | 33822 ✓   |
|                   | Helper                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 4 ✓     | no   | 622 ✓     | 2488 ✓    |
|                   | Truck hire charges for 100 km for taking to Workshop for repairs & back to site after repairs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2       | days | 3019 ✓    | 6038 ✓    |
| Total             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      | 808702.07 |           |
| Adding GST @ 18 % |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      | 145566.37 |           |
| Total             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |         |      | 954268    |           |

Total = 8,10,554

GST 18% = 1,45,899.7

Total = 9,56,454.70

(Rs. Nine Lac Fifty Six Thousand Four Hundred Sixty Eight Only

Est Prepared by

Est checked by

D M Murkute  
Sect Engineer

S V Nirkhe

Deputy Engineer

Gate Mfg. & Erection Sub Div No.1

Akola

Amount for Rs 9,56,454/-  
Nine Lac Fifty Six Thousand Four Hundred Sixty Eight only.