**BILL OF QUANTITIES**

**NAME OF WORK:- Rural Water Supply Scheme Yameen Palari Taluka Thana Bula Khan (District Jamshoro**)

Description and rate of item based on Composite schedule of Rates

|  |  |  |  |  |  |
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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
|  |  | **GROUP ‘A’ INSTALLING TUBE WELL** |  |  |  |
| 01 |  | Boring tube well in water bearing soil from G.I. upto 100’ft depth i/c sinking and with drawing of cashing pipe.  (PHS.I.NO;1, P/36) |  |  |  |
|  | 100.0 Rft | 15” dia | 877/- | P/Rft | 87,700/- |
| 02 |  | Boring for tube well in all water bearing Soil from depth 100.1 to 200’ft or 30.51to 61meter below ground level i/c sinking and withdrawing of casing pipes  (P.H.S.I.NO;2, P/36) |  |  |  |
|  | 100.0 Rft | 15” dia | 988/- | P/Rft | 98,800/- |
| 03 |  | Boring for tube well all water bearing soil from depth 200.1 to 300.ft or 60.01 to 91.50 meter below ground level i/c sinking andwith drawing of casing pipe (P.H.S.I.NO;3, P/36) |  |  |  |
|  | 50.0 Rft | 15” dia | 1048/- | P/Rft | 52,400/- |
| 04 | 10 Nos: | Providing strong substantially build wooden locked box with compartments for preserving 2 lbs (1 kg) samples of strats. (P.H.S.I.NO:5, P/36) | 3530/- | Each | 35,300/- |
| 05 | 13 Nos: | Taking & preserving in box 2 lbs (1 kg) sample of starts from bore holes (P.H.S.I NO:6, P/36) | 101/- | Each | 1,703/- |
| 06 | 13 Samples | Taking samples of water from bore holes and placing in two separate bottles.(P.H.S.I.NO: 7, P/37) | 131/- | P/Sample | 1,703/- |
| 07 |  | Supply and installing PVC Blind pipe “D” Class of approved design quality and make i/c necessary socket etc: complete.(P.H.S.I NO:12, P/44) |  |  |  |
|  | 150.0 Rft | 8” dia ‘B’ Class | 911/01 | P/Rft | 136,652/- |
| 08 |  | Supplying and installing PVC strainer ‘D’ Class of approved design quality and make i/c necessary socket etc: complete.(P.H.S.O.M.I.NO;iii, P/112) |  |  |  |
| 09 | 100.0 Rft | 8” dia ‘B’ Class | 979/05 | P/Rft | 97,905/- |
| 10 | 250.0 Rft | Shrouding with graded bajri (3/8” to 1/8” or 9 to 3 mm) in between bore and blind pipe for the following diameter or strainers (P.H.S.I.NO:13, P/38) | 105/- | P/Rft | 26,250/- |
| 11 | 1 No; | Mobilization for construction of tube well (N.S.I) | 10086/- | Each | 10,086/- |
| 12 | 24 Hours | Testing and development of charges of tube well(R.A.ATTACHED) | 2222/- | P/Hour | 51,735/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 13 | 1 No; | Air lift sample water at any depth (R.A Attached) | 23584/- | Each | 23,584/- |
| 14 | 13 Nos; | Providing and fixing suspension clamps Centralizer (M.R) | 500/- | Each | 6,500/- |
| 15 | 1 No; | Supplying and installing M.S. Bail plug (P.H.S.I.NO; 8 (b) P/43) | 2607/- | Each | 2,607/- |
| 16 | 1 No; | Supplying fixing C.I. (P.H.S.I.NO:13,P/15) | 1218/75 | Each | 1,219/- |
| 17 | 1 No: | Construct concrete 1:2:4 around well hand casing complete (M.R) | 1285/- | Each | 1,285/- |
|  |  |  |  | **Total** | **637,568/-** |
|  |  | **GROUP ‘B’ P/I SUBMERSIBL PUMP 15 BHP.** |  |  |  |
| 01 | 1 Sets | Providing and installing in position i/c transportation site of work at Yameen Palari Taluka Thana Bula Khan H.M.A Submersible Pump type HVP -17-18-15 HP motor 15 BHP x3x400vx2 pole 50 HZ 2900 2 pole capable to discharge G.P.M. against a head of 400 ft 15 BHP motor setting Depth 230’ft  HMA Complete stainless steel submersible pump type HVP  Submersible Motor 15 HP (3x400Vx50 HZ x 2 pole) 2900 RPM.  M.S. Riser pipe 2½” x23 Nos:  M.S. Top set 2½” x 1 No:  M.S. Nipple 2½” x 01 No;  Drop cable 3x16mm2 x 260’feet  Cable Termination Kit.  15 BH Motor control Unit (Fully loaded)  G.I. Motor Jacket 5  SS Electrode with Electrode cover  Electrode cable 3/29  15 H.P. Motor control unit consist of metallic box circuit breaker am-meter selector switch, electronic over current relay magnetic contractor under/over voltage relay (EVR) dry running protection relay in dictation lamps & on/off switch i/c Electrodes and cable 168 m drop cable 3 x 6 mm 84 meter, cable clamps 45 Nos; cable termination kit (CTK) x 01 No: and making necessary arrangement for testing of complete pumping set against the required head for 72 hours etc: complete. | 1028000/ | P/Set | 10,28,000/- |
| 02 |  | Providing G.I. Pipe of Heavy quality (P.H.S.M.I.NO;H, P/125) |  |  |  |
|  | 30.0 Rft | 3” dia | 338/17 | Each | 10,145/- |
| 03 | 06 Nos: | Manufacturing supplying M.S. flange of different dia made out Of M.S. Steel of 3/8” thick i/c cutting drilling holes and welding Of flange with M.S pipe etc: | 500/89 | Each | 3,005/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 04 | 29.11 Kg: | C.I. Tapper flat bottomed or central tapered flanged ends with holes Including turning and facing turning and facing of flanges for all size (P.H.S.I.M.I.NO;80, P/98) | 120/- | P/Kg: | 3,493/- |
| 05 |  | Reflex valve heavy pattern test pressure 300 lbs/sq; inch (P.H.S.(M)I-16, P/97) |  |  |  |
|  | 1 No: | 3” dia | 1543/75 | Each | 1,544/- |
| 06 |  | C.I. Sluice valve heavy pattern (Test pressure 21.0 kg/sq: cm) or 300 lbs /sq: inch (imported) (P.H.S.I.NO;2,P/11) |  |  |  |
|  | 1 No; | 3” dia | 4290/- | Each | 4,290/- |
| 07 |  | Jointing C.I/M.S flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints to the specified pressure etc: complete. (NON SCHEDULE ITEM) |  |  |  |
|  | P/Joint | 3” dia | 499/- | P/joint | 4,999/- |
|  |  |  |  | **Total** | **10,55,467/-** |
|  |  | **GROUP ‘C’ CONSTRUCTION OF PUMP HOUSE (10 X 12)** |  |  |  |
| 01 | 180.00 Cft | Excavation in foundation of building bridges and other structures including dabbling dressing refilling around structures with excavated earth watering and ramming lead upto 5’ft (in Soft soil)  (G.S.I.NO;18,. P/4) | 3176/25 | P%0cft | 572/- |
| 02 | 75.00 cft | Cement concrete brick or stone ballast 1½” to 2” gauge Ratio 1:4:8)(G.S.I.NO;4(b)P/16) | 9416/28 | P%cft | 7,062/- |
| 03 | 218.00 Cft | Random rubble masonry i/c hammer dressing in cement sand mortar (Ratio 1:6)  (G.S.I.NO;2 (iv) P/23) | 17723/- | P%cft | 38,636/- |
| 04 | 59.00 Sft | Damp proof course with cement sand and shingle 1:2:4 i/c two coats of asphalt mixture 2” thick (G.S.I.NO;27, ( c ),P/19) | 3912/85 | P%sft | 2,309/- |
| 05 | 109.00 Cft | Filling watering and ramming earth under floor with new earth (Excavated from out side)Lead upto one chain and lift upto 5’ft  (GSINO;21, P/04) | 1512/50 | P%0cft | 165/- |
| 06 | 300.00 Sft | Providing & laying 1:3:6 C.C. solid block masonry above 6” thick masonry (G.S.I.NO;23 P/18) | 14621/44 | P%sft | 43,864/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 07 | 103.67 Cft | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering currying rendering and finishing the exposed surface)(including screening and washing of shingle)(a)R.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in situe or precast laid in position complete in all respect(i)Ratio 1:2:4)90 lbs cement 2 cft sand 4 Cft shingle 1/8” to ¼” gauge.(G.S.I.NO;6(a)(i)P/17) | 337/- | P/cft | 34,937/- |
| 08 | 4.16 Cwt | Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars. (G.S.I.NO;7(ii)(a)P/20) | 5001/70 | P/Cwt | 20,870/- |
| 09 | 28.00 Sft | Making and fixing steel grated door with 1/16” thick sheeting i/c angle iron frame 2”x2”x3/8” and ¾” square bars 4” center to center with locking arrangement (G.S.I.NO;24, P/92) | 726/72 | P/Sft | 20,348/- |
| 10 | 2.03 Cwt | Fabrication of heavy steel work with angles, tees, flat iron iron and sheet iron for making trusses, girders tank etc; including cutting riverting handling assembling and fixing but excluding errectin in position  (G.S.I.NO;2, P/9) | 4928/49 | P/Cwt | 10,005/- |
| 11 | 2.03 Cwt | Errection and fitting in position of trusses stagin of water tank etc: (G.S.I.NO;3, P/91) | 271/04 | P/Cwt | 550/- |
| 12 | 24.00 Sft | Supplying and fixing in position iron / steel grill of ¾” x ¼” size flat iron of approved design i/c painting 3 coats etc: complete (weight not to be less than 3.7 lbs/sq: feet of finished (G.S.I.NO:26, P/92) | 180/50 | P/sft | 4,332/- |
| 13 | 120.00 Sft | Providing & laying 3” thick topping cement concrete (1:2:4) i/c surface finishing and dividing into panels (G.S.I.NO;16( c ) P/43) | 3275/50 | P%sft | 3,931/- |
| 14 | 865.00 Sft | Cement plaster (1:4) ½” thick upto 11’ height (G.S.I.NO;11, P/52) | 2283/93 | P%sft | 19,756/- |
| 15 | 78.00 Sft | Painting flush on stone work (in cement mortar (1:3) (G.S.I.NO;20(ii)P/59) | 1758/08 | P%sft | 1,371/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 16 | 204.00  Sft | White washing (2 coats)  (G.S.I.NO;26, P/55) | 425/84 | P%sft | 869/- |
| 17 | 865.0 Sft | White washing (1 Coat)(GSI.NO;25, P/26) | 416/63 | P%Sft | 3,604/- |
| 18 | 865.00Sft | Colour washing (2 coats)  (G.S.I.NO;25, P/55) | 859/90 | P%sft | 7,438/- |
| 18 | 104.0 Sft | **PAINTING NEW SURFACE**  Preparing surface and painting of doors and windows in any type (3coats)  (G.S.I.NO;5, P/77) | 2116/41 | P%Sft | 2,201/- |
| 19 | 1.44 Cwt | Supply of M.S. Girders 8”x4” (P.H.S.O.M.I.NO;140, P/72) | 3850/- | P/Cwt | 2,201/- |
|  |  |  |  | **Total** | **228,364/-** |
|  |  | **GROUP ‘D’ CONSTT; OF L.S.R** |  |  |  |
| 01 | 241.00 cft | Excavation in foundation of building bridges and other structures including dabbling dressing refilling around structures with excavated earth watering and ramming lead upto 5’ft (in ordinary soil)(GSINO;18. P/4) | 3172/25 | P%0cft | 765/- |
| 02 | 57.00 Cft | Cement concrete brick or stone ballast 1½” to 2” gauge (Ratio 1:4:8)  (G.S.I.NO:4, P/17) | 9416/28 | P%cft | 5,361/- |
| 03 | 56.46 Cft | Cement concrete plain i/c placing compacting finishing and curing complete (i/c screening and washing of stone aggregate without shuttering Ratio 1:3:6 (G.S.I.NO:5, P/18) | 12595/- | P%cft | 7,111/- |
| 04 | 159.00 Cft | Reinforced cement concrete work including all labour and material except the cost of steel reinforcement and its labour for bending and binding, which will be paid separately. This rate also includes all kinds of forms moulds, lifting, shuttering currying rendering and finishing the exposed surface)\ (including screening and washing of shingle)(a) R.C.C. Work in roof slab, beams, columns, rafts, lintels and other structural members laid in suite or precuts laid in position complete in all respect (i) Ratio 1:2:4) 90 lbs cement 2 Cft sand 4 Cft shingle 1/8” to ¼” gauge.  (G.S.I.NO;6(a) (i)P/19) | 337/- | P/Cft | 53,583/- |
| 05 | 6.38 Cwt | Fabrication of mild steel reinforcement for cement concrete including cutting bending laying in position making joints and fastenings including cost of binding wire (also includes removal of rust from bars (G.S.I.NO;7(ii)(a)P/20) | 5001/70 | P/Cwt | 31,911/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 06 | 60 Kg: | Providing and fixing C.I. Main hole cover with frame i/c cost of material (P.H.S.I.NO:1, P/23) | 140/- | P/Kg: | 8,400/- |
| 07 | 197.41 Cft | Randum rubble masonary i/c hammer dressing in foundation and plinth in cement sand motor (1:6) (G.S.I.NO;1(iv) P/26) | 17723/- | P%cft | 34,987/- |
| 08 | 583.40 Sft | Cement plaster (1:4) ¾” thick upto 20’ height (G.S.I.NO;11, P/52) | 2283/93 | P%sft | 13,324/- |
| 09 | 26.71  Cft | Filling and watering and ramming earth under floor with new earth (excavated from out side) lead upto one chain and lift upto 5’ft (G.S.I.NO:21, P/04) | 1512/50 | P%0cft | 40/- |
| 10 |  | Providing G,I, Pipe of heavy quality (S.S.O.M.I.NO;1, P/12) |  |  |  |
|  | 57 Rft | 2½” dia | 310/47 | P/Rft | 17,697/- |
|  | 12 Rft | ¾” dia | 95/79 | P/Rft | 1,149/- |
| 11 |  | Supply of G.I. Bend (S.S. .NO;7, P/87) |  |  |  |
|  | 2 Nos: | Bend 2½” dia | 720/- | Each | 1,440/- |
| 12 |  | Providing & fixing full way gun metal valve with wheels threaded or flanged ends with rubber washing (light pattern) (S.S.I.NO8(ii) P/17) |  |  |  |
|  | 2 Nos: | 2½” dia | 1225/84 | Each | 2,452/- |
| 13 |  | Supplying fixing ¾” dia brasis or bib cosk slaid piston (S.S.I.NO;1(ii)P/16) |  |  |  |
|  | 6 Nos: | ¾” dia | 348/92 | Each | 2,094/- |
| 15 | 1 No: | Providing and fixing C.I. ventilator weight not less then 90lbs once in roof of tank approved Design rain with water right joints including painting etc complete  (PHSI.No.4 P-55) | 4870/- | Each | 4,870/- |
| 16 | 3.00 Kg: | Supply of dampo Padlo  (S.O.M.INO:39, P/04) | 125/- | P/Kg: | 375/- |
| 17 | 31.83 Rft | Providing “Construction joint” in concrete work of” 9 wide corrugated PVC water stop with bulb i.e soldering cost of material and labour Etc: complete.(P.H.S.I.NO:2, P/56) | 86/- | P/Rft | 2,737/- |
| 18 | 7.65 Cft | Cement concrete plain i/c placing compacting finishing and Currying complete (i/c screening and washing of stone aggregate without shuttering (Ratio 1:2:4) (G.S.I.NO; 5(a) p/18) | 14429/25 | P%cft | 1,104/- |
| 19 | 92.00 Kg: | Manufacturing & supplying M.S. Flange of different dia made of M.S. Sheet of various thickness including cutting drilling holes and welding of flanged with M.S. pipe etc: complete (P.H.S.I.NO;1, P/32) | 945/- | P/Kg: | 21,659/- |
| 20 |  | Jointing C.I/M.S flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints to the specified pressure etc: complete.  (P.H.S.I.NO;1, P/40) |  |  |  |
|  | 03 Joints | 3” dia | 499/- | P/Joint | 1,497/- |
|  |  | Cost for 3 Nos: 3 x 231498 = Rs:694,494/- |  | **Total** | **2,12,556/-** |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
|  |  | **GROUP’E’ P/L/J PVC PIPE 3” DIA** |  |  |  |
| 01 | 18500.0 Cft | Excavation for pipe lines into trenches and pits in Hard soil i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer incharge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5’ft(1.52m) and lead upto one chain (30.5mm) (P.H.S.I.NO; 3, P/61) | 3900/- | P%0cft | 72,150/- |
| 02 | 37000.0 Cft | Excavation for pipe lines into trenches and pits in soft soils i/c trimming and dressing sides to true alignment and shape leveling of beds of trenches to correct level and grade cutting joint holes and disposal of surplus earth within a one chain as directed by Engineer incharge providing fence guards lights flags and temporary crossing for non vehicular traffic where ever required lift upto 5’ft(1.52m) and lead upto one chain (30.5mm) (P.H.S.I.NO; 3, P/60) | 3600/- | P%0cft | 1,33,200/- |
| 04 |  | Providing PVC pipe of class ‘B’ (equivalent make)fixing in trenches i/c cutting and jointing with “Z” joints with one rubber rings i/c testing with water to head of 61meter or 200’ft.(P.H.S.I.NO;1, P/21) |  |  |  |
|  | 9250.0 Rft | 3” dia | 90/- | P/Rft | 832,500/- |
| 04 |  | C.I. Sluice valve heavy patter (Test pressure 21.0 Kg:/Sq; cm or 300 lbs/sq(Imported) (P.H.S.I(M)2, P/9) |  |  |  |
|  | 4 Nos: | 3” dia | 4290/- | Each | 17,160/- |
| 05 |  | PVC ‘Z’ jointing (P.H.S.M.I.NO;18,P/112) |  |  |  |
|  | 2 Nos: | i)Tee 3” dia | 900/- | Each | 1,800/- |
|  | 3 Nos: | ii)900 Bend 3’ dia | 731/- | Each | 2,193/- |
|  | 4 Nos: | Socket 3’ dia | 405/- | Each | 1,620/- |
| 06 |  | C.I. Tail piece for PVC Pipe  (P.H.S.(M) I.NO;14, P/29) |  |  |  |
|  | 8 Nos: | 3” dia | 375/- | Each | 3,000/- |
| 07 | 9 Nos: | Air valve tee double acting coal (S.M.I.NOP;8, P/12) | 4000/- | Each | 36,000/- |
| 08 | 9 Nos: | Fire Hydrent tee (SMI.NO;10, P/16) | 1375/- | Each | 12,376/- |
| 09 |  | Making joints C.I. specials fitting (i/c laying of specials and cost of solvent cement of required diameter and testing the joints alongwith PVC Pipe line ‘B’ ‘C’ and ‘D’ class of the specified pressure and making Good to all leaky joints etc: complete (P.H.S.I.NO:1, P/35) |  |  |  |
|  | 10 Nos: | 3” dia | 59/- | Each | 590/- |

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| **Item No:** | **Quantity** | **Description of Item to be executed at site** | **Rate** | **Unit** | **Amount** |
| **01** | **02** | **03** | **04** | **05** | **06** |
| 10 |  | Jointing C.I/M.S flanged pipes and specials flanged and inside a trenches i/c supplying rubber packing of the required thickness nuts bolts with washers etc and other tools required for jointing and testing the joints to the specified pressure etc: complete. (P.H.S.I.NO;1, P/35) |  |  |  |
|  | 07 Joints | 3” dia | 499/- | Each | 8,453/- |
| 11 | 13 Nos: | Providing chamber 2½”x2½” (750x750mm) inside dimension 4½”(1372 mm) deep as per approved design for sluice valve 3” to 12” dia with 18” (457mm) dia inside cast iron cover and frame (wt= 1 cwt 3 qr) fixed in RCC 1:2:4 (102 mm) thick with 5 lbs steel per cft)9” (299 mm) thick brick masonary wall set in 1:6 cement mortar 6” (1152mm ) thick cement concrete 1:3:6 in foundation 1” thick cement concrete 1:2:4 flooring ½” (12.5mm) thick cement plaster 1:3 to all inside wall surface and to top i/c providing and fixing M.S. foot beyond 2½” depth curring excavation back filling and disposal of surplus earth etc; complete (P.H.S.I.NO:1, P/40) | 18820/- | Each | 244,660/- |
| 12 | 49950.0 Cft | Refilling the excavated stuff in trenches 6” thick layers i/c watering ramming to full compaction etc: complete  (P.H.S.I.NO;24, P/53) | 2760/- | P%0cft | 137,862/- |
|  |  |  |  | **Total** | **15,03,593/-** |

**ABSTRACT**

|  |  |  |
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| A | Installation of tube well | Rs: 637,568/- |
| B | P/I 15 BHP Electric Submersible Pumping set. | Rs: 10,55,467/- |
| C | Constt: Pump House 1 No; | Rs: 2,28,364/- |
| D | Constt: of L.S.R 3 Nos: | Rs: 6,94,494/- |
| E | Providing Laying Jointing and testing PVC Pipe line 3” dia | Rs:15,03,593/- |
|  | **Total;** | **Rs:41,19,486/-** |

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**Amount Total (a) + (b) Rs:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

\_\_\_\_\_\_\_\_% above / below on the rates of CSR, Amount to be added / deducted on the basis

Total (b) of premium quoted \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Total (A) = a + b in works &

Figures\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Contractor EXECUTIVE ENGINEER**

**PUBLIC HEALTH ENGG:DIVISION**

**JAMSHORO**