

| ANNEXURE-D VI General Maintenance Tools |                                                                                                            |              |                        |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------|--------------|------------------------|
| Sr. No.                                 | Description                                                                                                | HMEL's Scope | O&M Contractor's Scope |
| 1                                       | Measuring tape-50 mtr.                                                                                     | x            | √                      |
| 2                                       | Measuring tape 5 mtrs                                                                                      | x            | √                      |
| 3                                       | Measuring tape 3 mtrs                                                                                      | x            | √                      |
| 4                                       | Vernier Callipers Least count 0.01mm                                                                       | x            | √                      |
| 5                                       | Micro meter (inside and outside) Size- 0-25 MM, 0-50 Mm. 50-150 Mm & 150-300mm and other sizes as required | x            | √                      |
| 6                                       | Ball type micro meter                                                                                      | x            | √                      |
| 7                                       | Bore Gauge                                                                                                 | x            | √                      |
| 8                                       | Depth vernier                                                                                              | x            | √                      |
| 9                                       | Feelers gauges                                                                                             | x            | √                      |
| 10                                      | Slip gauges                                                                                                | x            | √                      |
| 11                                      | Dial gauge with Magnetic stand                                                                             | x            | √                      |
| 12                                      | Steel ruler (12")                                                                                          | x            | √                      |
| 13                                      | Transparent tube for level measurment                                                                      | x            | √                      |
| 14                                      | Right Angle                                                                                                | x            | √                      |
| 15                                      | MAGNETIC SPIRIT LEVEL                                                                                      | x            | √                      |
| 16                                      | Master Level                                                                                               | x            | √                      |
| 17                                      | Adjustable Spanner                                                                                         | x            | √                      |
| 18                                      | Flat File (big & small)                                                                                    | x            | √                      |
| 19                                      | Half round file (Big & small)                                                                              | x            | √                      |
| 20                                      | Round file ( Big & small)                                                                                  | x            | √                      |
| 21                                      | Hammer Small                                                                                               | x            | √                      |
| 22                                      | Screw driver set                                                                                           | x            | √                      |
| 23                                      | Cutting Plier                                                                                              | x            | √                      |
| 24                                      | Flat chisel                                                                                                | x            | √                      |
| 25                                      | centre punch                                                                                               | x            | √                      |
| 26                                      | All size non-sparking tool                                                                                 | x            | √                      |
| 27                                      | helicoil insertion kit                                                                                     | x            | √                      |
| 28                                      | Drill bit and tap set as required                                                                          | x            | √                      |
| 29                                      | D spanner                                                                                                  | x            | √                      |
| 30                                      | Socket spanner                                                                                             | x            | √                      |
| 31                                      | Nose Plier- short                                                                                          | x            | √                      |
| 32                                      | Nose Plier- Long                                                                                           | x            | √                      |
| 33                                      | Ring spanner                                                                                               | x            | √                      |
| 34                                      | Allen key set ( mm-4 & Inch-2)                                                                             | x            | √                      |
| 35                                      | TORQUE WRENCH 14 - 56 KGFM/ 135 -540 NMT                                                                   | x            | √                      |
| 36                                      | TORQUE WRENCH 7.0 - 14 KGFM/ 68 -135 NMT                                                                   | x            | √                      |
| 37                                      | Pipe wrench - 10", 12" and 18"                                                                             | x            | √                      |
| 38                                      | Sim cutter with spring Size : 8,12                                                                         | x            | √                      |
| 39                                      | Grease gun 10 Kg                                                                                           | x            | √                      |
| 40                                      | Cutting set hose pipe ( Green & Red)                                                                       | x            | √                      |
| 41                                      | Cutting nozzle                                                                                             | x            | √                      |
| 42                                      | Oxygen regulator Single stage, Double stage                                                                | x            | √                      |
| 43                                      | Gas Cutting set                                                                                            | x            | √                      |
| 44                                      | DA regulator(Industrial application)                                                                       | x            | √                      |
| 45                                      | Argon welding set                                                                                          | x            | √                      |
| 46                                      | Flexible grinding M/c                                                                                      | x            | √                      |
| 47                                      | Bench vice                                                                                                 | x            | √                      |
| 48                                      | D Shackle                                                                                                  | x            | √                      |
| 49                                      | Lifting tools tackles sling,belt upto 20 ton weight                                                        | x            | √                      |
| 50                                      | Turn buckle                                                                                                | x            | √                      |
| 51                                      | Chain pulley block                                                                                         | x            | √                      |
| 52                                      | Hack saw frame                                                                                             | x            | √                      |
| 53                                      | Tool Box                                                                                                   | x            | √                      |
| 54                                      | Pipe cutter                                                                                                | x            | √                      |
| 55                                      | Barrel pump(hand)                                                                                          | x            | √                      |
| 56                                      | Funnel (different sizes)                                                                                   | x            | √                      |

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| 57                                      | Measuring cane (1Ltr, 5 Ltr, 10 Ltr)                   | x            | √                      |
| 58                                      | Gas cylinder trolley                                   | x            | √                      |
| 59                                      | Bearing scrapper                                       | x            | √                      |
| 60                                      | F-key                                                  | x            | √                      |
| 61                                      | Letter punch 6mm                                       | x            | √                      |
| 62                                      | Number Punch 6 mm                                      | x            | √                      |
| 63                                      | Plier External                                         | x            | √                      |
| 64                                      | Plier internal                                         | x            | √                      |
| 65                                      | Cylinder Key                                           | x            | √                      |
| 66                                      | Silicone Gun                                           | x            | √                      |
| 67                                      | Welding Holder                                         | x            | √                      |
| 68                                      | centre punch 6"                                        | x            | √                      |
| 69                                      | Bitt Holesaw 2"                                        | x            | √                      |
| 70                                      | Bitt Holesaw 1 1/2"                                    | x            | √                      |
| 71                                      | Bitt Holesaw 1 1/4"                                    | x            | √                      |
| 72                                      | Bitt Holesaw 1 1/8"                                    | x            | √                      |
| 73                                      | Bitt Holesaw 3/4"                                      | x            | √                      |
| 74                                      | White Glass                                            | x            | √                      |
| 75                                      | Black Glass                                            | x            | √                      |
| 76                                      | Hammer Fiber Hammer                                    | x            | √                      |
| 77                                      | FMI Fiber Topline                                      | x            | √                      |
| 78                                      | Hammer 4LB                                             | x            | √                      |
| 79                                      | Wire Brush                                             | x            | √                      |
| 80                                      | Nylon Rope 1" & 1/2"                                   | x            | √                      |
| 81                                      | Minila rope 1" & 1/2"                                  | x            | √                      |
| 82                                      | Combination Piler                                      | x            | √                      |
| 83                                      | Circlip plier                                          | x            | √                      |
| 84                                      | Slide Wrench                                           | x            | √                      |
| 85                                      | Ratchet Spanner set                                    | x            | √                      |
| 86                                      | Flate Chiesel                                          | x            | √                      |
| 87                                      | Honewell Safety Kit 20cal                              | x            | √                      |
| 88                                      | RING SPANNER                                           | x            | √                      |
| 89                                      | D SPANNER                                              | x            | √                      |
| 90                                      | ALLEN KEY SET INCH.                                    | x            | √                      |
| 91                                      | ALLEN KEY SET MM.                                      | x            | √                      |
| 92                                      | COMBINATION PLIER                                      | x            | √                      |
| 93                                      | NOSE PLIER (165MM)                                     | x            | √                      |
| 94                                      | FLATE FILE (ROUGH)                                     | x            | √                      |
| 95                                      | FLATE FILE (SMOOTH)                                    | x            | √                      |
| 96                                      | SCREW DRIVER ( 929)                                    | x            | √                      |
| 97                                      | SCREW DRIVER ( 862)                                    | x            | √                      |
| 98                                      | SCREW DRIVER ( 913)                                    | x            | √                      |
| 99                                      | CHIESEL (4")                                           | x            | √                      |
| 100                                     | TOOL BOX                                               | x            | √                      |
| 101                                     | LOCK WITH KEY                                          | x            | √                      |
| 102                                     | WIRE STRIPPER                                          | x            | √                      |
| 103                                     | SCREW DRIVER (903)                                     | x            | √                      |
| 104                                     | Crimping Tool (Lugs)                                   | x            | √                      |
| 105                                     | HAMMER 500gm.                                          | x            | √                      |
| 106                                     | Soft Faced Hammer                                      | x            | √                      |
| 107                                     | TOOL BAG                                               | x            | √                      |
| 108                                     | CHAMPION SET                                           | x            | √                      |
| 109                                     | LINE TESTER                                            | x            | √                      |
| 110                                     | BIT SET BS 80                                          | x            | √                      |
| 111                                     | MINI HACK SAW 6"                                       | x            | √                      |
| 112                                     | Hydraulic Puller with pump                             | x            | √                      |
| 113                                     | Hydraulic Button Jack with pump (10 MT, 50 MT, 100 MT) | x            | √                      |

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| 114                                     | Portable grinder AG-4, AG-5 and AG-7                                        | x            | √                      |
| 115                                     | Holsaw-12mm                                                                 | x            | √                      |
| 116                                     | Holsaw-25mm                                                                 | x            | √                      |
| 117                                     | Holsaw-50mm                                                                 | x            | √                      |
| 118                                     | Belt cutting Knife                                                          | x            | √                      |
| 119                                     | Hydraulic/ pneumatic torquing tools or ARC contractor for torquing job      | x            | √                      |
| 120                                     | Any other measuring tool required for maintence                             | x            | √                      |
| 121                                     | Electrical insulated tools                                                  | x            | √                      |
| 122                                     | Torch (safe area)                                                           | x            | √                      |
| 123                                     | Torch (intrinsically safe)                                                  | x            | √                      |
| 124                                     | Box spanner set                                                             | x            | √                      |
| 125                                     | Battery powered nut runner                                                  | x            | √                      |
| 126                                     | Operator F keys and Portable ladder/platofrm ( 1-2 ft) for operating valves | x            | √                      |