

Tender No. 65.12.8016
TECHNICAL SPECIFICATION OF FITTER TOOLS & GUGES

1 Major parameter

The fitter tools consist of following different set of tools.

S.No.	Description	Qty.
1	Socket set	08 Set
2	Ratchet Reversible	12 Nos.
3	Double open end spanner	25 Set
4	Bi-hexagonal Ring spanners	25 Set
5	Combination ring & open end wrenches	12 Set
6	Single open end spanners	16 Set
7	Adjustable wrench	16 Set
8	Combination pliers	20 Set
9	Circlip plier	20 Set
10	Long nose plier	16 Nos.
11	Pipe wrench	05 Set
12	Heavy duty riveters	01 Set
13	Heavy duty rivet cutters	01 No.
14	Impact wrench	01 Set
15	Dic grinders	01 No.
16	Heavy duty grinders	01 No.
17	Vertical sanders & Grinders.	01 No.

The details technical specification of each tools are as under:

1. **Socket sets:** Manufactured from premium grade Chrome Vanadium Alloy steel.
 - (A) The each socket set consist of 22 sockets i.e. 8,9,10,11,12, 13,14,15,16,17,18,19,20,21,22,23,24,26,27,28,30,32 MM.
 - (B) Each socket set consists of 06 accessories as under.
 1. Extension bar 125 mm
 2. Extension 250 mm
 3. Unversed joint
 4. Sliding handle 300 mm
 5. Speed brake 410 mm
 6. Ratched reversible 265 mm

Note : Each socket with all accessories should be supplied in Good quality carrying case.

2. **Ratchet Reversible :**

Finish - Stain chrome finish

Product to based on DIN 3122/IS : 7975 Part II

Length = 265 mm

3. Double open end spanner : Manufactured from Drop Forged, chrome vanadium steel with each head set at a 15 angle.

Finish - CS (Chrome plated)

Product to based on IS : 2028

Double open end spanner should consist of following size of spanner 6x7, 7x8, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 22x24, 25x28 30x32mm.

4. **Bi hexagonal Ring spanners :-** This walled chamfered rings ideal to reach recessed fasteners drop forged chrome vanadium steel.

Finish - Chrome plated polished head

Product to based on DIN : 838, IS- 2029

Bi hexagonal ring spanners should consist of following spanners

6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x26, 25x27, 30x32mm.

5. **Combination ring and open end wrenches:** Should have equal openings at both ends. Bi hexagon ring end set at 15 degree angle & open set at 15 degree angle.

Finish - Drop forged chrome vanadium steel.

One set consist of 12 Pcs. i.e. 6,7,8,9,10,11,12,13,14,17,19 & 22 mm.

6. **Single open end spanners :** Should be drop forged chrome vanadium steel with head set as 15 angle,

Finish - Black finish

Product confirmed to IS : 2028

One set consist of 11 Pcs. i.e. 7,8,14,30.32.34.36,38, 41,46 & 50 mm

7. **Adjustable wrench :** Should be thin tapered jaws, slender handle specially designed for narrow openings.

Drop : Forged chrome vanadium steel

Finish - Black finish

One set consist of 03 Pcs. i.e. Length 150, 200 & 250mm

8. **Combination pliers** : Should be sleek design with side cutting and crushing facility for burnt PVC insulated wires, induction hardened edges, injection molded insulated sleeves to with stand upto 1000 volts.
Made of Drop : forged chrome vanadium steel
Finish - Black finish
One set consist of 03 Pcs. of size 150, 175 & 210mm

9. **Circlip pliers** :
Length - 175 mm

10. **Long nose pliers** : Fine serrations diagonally opposite enabling arippina of thinnest wires & components. Injection moulded sleeves.
Made of Drop : forged chrome vanadium steel
Length - 160 mm
Finish - Black finish

11. **Pipe wrench** : Should be made of drop forged chrome vanadium steel.
Finish - Handle Red powder coated.
One set consist of 04 Pcs. of size 200, 250, 300 & 450mm

12. **Heavy duty riveters** : One set consst of following capacity heavy duty riveters.

Riviting cap in steel (Hot) mm	Belows per minute	Appro. Wt. Kg./	Overall length in mm	Air inlet connection	Type of handle	Std. Equipment
20	1500	08	430	RC 1/2"	Pistol grip	Snap click retainer
24	1320	10	470	RC 1/2"	Pistol grip	Snap click retainer
30	1200	10	523	RC 1/2"	Pistol grip	Snap click retainer

13. **Heavy duty rivet cutters** :

Riviting cap in steel (Hot) mm	Belows per minute	Appro. Wt. Kg./	Overall length in mm	Air inlet connection	Type of handle	Std. Equipment
27	720	15	660	RC 1/2"	Pistol grip	Chisel retainer 02 nos. rubber bumbers.

2 Minor parameters

1. Impact wrenches : One set consist of following capacity impact wrenches.

Riviting cap in steel (Hot) mm	Belows per minute	Torque in N-m	Appr. Wt. Kg./	Overall length in mm	Size to centre mm	Air inlet connection
19	3/4	388	5.4	235	47	RC 1/4"
32	01	1835	9.6	362	60	RC 1/2"

2. Die Grinders

Free speed	Spindel thread size	Collect cap.in mm	Wheel cap. ox width in mm	Appr. Wt. Kg./	Overall length in mm	Out side dia in mm	Air inlet connection
21000	M 10	6	40 x 20	2.5	317	51	RC 3/8"

3. Heavy duty Grinders

Free speed	Spindel thread size	Collect cap.in mm	Wheel cap. ox width in mm	Appr. Wt. Kg./	Overall length in mm	Out side dia in mm	Air inlet connection
6000	M16		150x25	5.2	535	89	RC 1/2"

4. Vertical sanders & Grinders

Free speed	Spindel thread size	Wheel cap. Ox width in mm	Appr. Wt. Kg./	Overall length in mm	Air inlet connection
6000	M 16	150 Rosined cup	5.4	178	RC 1/2"

3. Warranty Requirement

The contractor shall provide warranty for a period of 24 months from the date of commissioning of the machine as per IRS condition.

4. Special requirement

Machine to be delivered to SSE (C&W) Rewa (MP), West Central Railway.

For Controller of Stores