

उप मुख्य सामग्री प्रबंधक कार्यालय
Dy. CMM/CRWS/BHOPAL

No. 68.12-WB- 42

Date: 06.11.2012

Tender to be closed on...**20.11..2012**..... at 14:30 Hrs .

सुपुर्दगी का स्थान : उप मुख्य सामग्री प्रबंधक,सडिपुका,मेन स्टोर,भोपाल
Place Of Delivery : Dy. CMM (CRWS) BPL {AT MAIN STORES}
सुपुर्दगी अवधि : ३० दिन ँ भंडार उपलब्धता के अनुसार
Delivery Terms : **30 Days / Ex stock**

1	68.12.5786	H.S.S.P/Shank twist drill size -6.4mm to IS:5101/97,Make-IT,Addison,Mirinda	700 Nos
2	68.12.5787	Set of Ladder one set consisting Col=08 Nos,Col-II=01,Col – III=01No ,to IS:1079/94,2062/99,FE-410,WA ICF/M/D/SP-102,SCN,5-6-4-506 Alt-g.	20 Set
3	68.12.5788	Non Welding safety goggles plain white as per attached ,Make-3m or similar.	500 Nos
4	68.12.5789	Number plate plate for AC 2Tier sleeper car 1 to 46 ,As per Drg.No.-AW/64118 to IS: 737/86 & 737/86.	17 Set
5	68.12.5790	Adhesive remover for berth ,Rexine & Coach (inside).Body-Gun+Stain cleaner. Packing in 5Kgs plastic jar.Make-SATOL,STENZA.	60Kg
6	68.12.5791	H.S.S.Parralled shunk twist drill size-5.2 mm,As per IS:5101/1991. Make- IT,Addition ,Totam,or Mirinda.	500 Nos
7	68.12.5792	Flam proof cotton canvas size-91.4cm width in suclad FPC-700,As per RDSO, Spec.No. RDSO/PE/SPEC/AC/0136-2009 (Rev-0) & As per IS:1424-83 Varity-2.	120 Mtrs.
8	68.12.5798	M.S.Quick release coupling single shut off. As per technical specification enclosed .Make-Airmx/Puma.	100 Nos
9	68.12.5799	Bush OD=42MM Xid=32.5 x25mm. as per T-0-3-659 alt.4 item 5	1800 Nos
10	68.12.5800	Set of Hex Headbolt M-16 X1.5X50MM with Hex Nut M-16 X1.5 PITCH.SPRING WASHER m-16 & Lock Nut M-16 X1.5 Pitch in Assembled condition.as per Drg.No. ICF/SK-2-1-011 Alt."y"Item No a4,a5,a6 &21.	2600 Nos

11	68.12.5801	Alternator Bracket of 16 T,Bogie as per Drg.No. WTAC,0-3-310 Alt.2 k Col-I ITEM No.1,2 &3 in Loose condition.	50 Nos
12	68.12.5802	¾" Sq drive black oxidized impact Socket size 36mm, Standard with ¾" Sq.drive sliding T Handle Black Oxidized for impact socket size 500mm .Make-Tristar,Mac Master,Top Tool or Trackson.	10 Set
13	68.12.5803	Hex Lock Nut M-20(Galvanized) to IS:1364 (pt.-4) 04-85 Tab.1 as per Drg.No. T-3-2-803 Alt.5 & k item 15.	12000 Nos
14	68.12.5804	FRP Top cover for AC-3TIER COACHES AS PER Drg.No. RCF/AC-44411 Alt.-B.	10 Nos
15	68.12.5805	M.S.Plain Moulding size 700x25x3mm.	2000 Nos
16	68.12.5806	Petroleum Jelly suitable for Lead Acid Train Lighting Battery to IS:6887-1980 First Revision.	400 KG
17	68.12.5731	Set of Dummy plug (Solid) Size-20mm ATY=01 No and size-32mm qty=01No. as per IS:1239/Pt-II/Table-20 (One set consist of =02Nos.)	180 Set
18	68.12.5497	Plastic Handle Screw driver size=12 inches long blade size=10mm . Blade TIP Dimension (10mm x1.5mm).Make- TAPARIA OR Hira or Jhalani.	150 Nos
19	68.12.5720	M.S.Hexagonal head bolt size-16x40mm,standard item to IS:1363 Part – II 1984 FULL THREADED.	230 KG
20	68.12.5726	M.S.Hex Head Bolt Half Thread Size 16x90MM As per IS: 1363 Part –I, 01No with plain punched washer as per IS:2016,m-16,02No. Nut M-16 Asper IS:3063 Part –III ,01 No's and sprit pin size 3x40mm ,01No's with 32mm Hole at the end of bolt (Bright zinc plated alt stem).	1000 Nos
21	68.12.5653	Set of spares for signotron make charge-discharge battery charger model No- CDRI 310 V-25 A, List of spare enclosed herewith. One set consists of (1XA+6XB+1XC+2XD+6XE+4XF+6XG+6XH).	07Set.
22	68.12.5730	Set of spares for 1210SE TATA Truck .One set consiting as per Enclosed Annexure.	01 Set
23	68.12.5642	Set of Spare parts of monoblock pump. One set consisting of as per Annexure 'A' (at the time of supply proof of purchased from OEM/Authorised Dealer must be submitted	01 set

24	68.12.5474	Set of Electrical harness material of under frame arrangement with e-beam cables including Aluminium alloy conduit for GS type model lake Coach .One set consisting of 62 items as per annexure 'A' E-beam cables ,polyimide conduit its accessories should be of RDSO/RCF/ICF'S Approved Make. OEM Certificate for e-beam cable, polyimide conduit and its	01 Set
25	68.12.5637	Transformer Box of per – cooling Rectifier 135 V. 200 A. CRWS/BPL/EL/SK/09/03.	08 Nos
26	68.12.5473	Set of Electrical harness material of under frame arrangement with e-beam cables including Aluminium alloy conduit for GSCN Coach .One set consisting of 69 items as per annexure 'A' E- beam cables ,polyimide conduit its accessories should be of RDSO/RCF/ICF'S Approved Make. OEM Certificate for e-beam cable, polyimide conduit and its accessories must be submitted.	01 Set
27	68.12.5355	Recoil spring washer as per dDrg.NO. W/BD-350.	500 Nos
28	68.12.5808	Heavy duty Dry cell 1050 R20 1.5V Leak Proof Guarantee up to 0.6C.V.,Contact points of cell should be sealed .At the time of delivery shelf life should be retained for one year .ISI Marked ,Make- Eveready,Nippo or Nivino	738 Nos
29	68.12.5707	Fully insulated open head electrode holder 600 Amps of Make- ESAB or Jackson, USA or Lincoln, USA, Model similar to Jackson A-3 with feature (a) suitable for 95 mm core dia, Aluminum cable (b) Holder should embossed/ cast. Identification mark of manufacture of holder	50 Nos

Annexure of Tender No.68.12.5798 due on 20.11.2012.

Technical specification for M.S.QUICK Release coupling single shut off.

1. Operating Pressure- up to 10kg /cm².
2. Temperature- 80° C
3. Media-AIR
4. Connection type-Male Hose to Suit 8MM Pneumatic hose.
5. Size-3/4''

AMM/CRWS/BPL

Annexure of tender no.68.12.5653 Due on 20.11.2012

ITEM Sr.No.	Description
A	Main Control Card
B	Pulse Card
c	Phase Fail Card
d	Power Supply card
e	SYNC Transformer
f	Rotary Switch
g	Pot 10K
H	Pot 100K

AMM/CRWS/BPL

**Annexure of Tender No.68.12.5730 due on 20.11.12.
List of spares for TATA 1210 SE Truck**

Sr,No	Description	Qty
1	Chasis U Bolt	12 Nos
2	Hub Bolt M22 X125 MM.Make-TVS/Unbserko/UPS	32 Nos
3	Steering worm assembly	01 No.
4	Cabin mounting	04 Nos
5	Clutch plate assembly Make-CA/LUK/TELCO.	02 Nos
6	Pressure plate assembly.Make-CA/LUK/TELCO	02 Nos
7	Release bearing	02 Nos

AMM/CRWS/BPL

**Annexure of Tender NO.68.12.5642 due on 20.11.12
Set of spares parts of Monoblock pump .One set consisting of following items:**

Sr.No.	Description	Qty
1	Impeller	50 Nos
2	Delivery Casing	10 Nos
3	SEAL	50 Nos
4	ANDLE	10 Nos
5	Terminal Board	10 Nos
6	Fan Cover	20 Nos
7	Flanges(Suction/Delivery)	100 Nos
Total		250 Nos

Note: one set consist of 07 items=250 Nos.

AMM/CRWS/BPL

**ANNEXURE of Tender No.68.12.5473 due on 20.11.2012
REQUISITION NO.96511304 DATE.05.07.2012**

One Set is consisting of following 69 items.

SN.	Description	IS No.	Detail drg./ Spec.	Unit	Qty. per S
1	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Red " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 ,with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
2	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Blue " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 ,with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
3	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " grey " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 ,with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
4	4.0 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Red " working voltage up to 750 V.	NIL	EDTS 132,REV-C, AM1,Data sheet-2	Mtrs	10
5	4.0 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Blue " working voltage up to 750 V.	NIL	EDTS 132,REV-C, AM1,Data sheet-2	Mtrs	10
6	FRLT Cotton insulation tape blue	NIL	ICF/ELEC/921,Rev-0	Nos	2
7	FRLT Cotton insulation tape Red	NIL	ICF/ELEC/921,Rev-0	Nos	2
8	Copper crimping socket 10 sqmm	NIL	EDTS -201 REV-A, Amnd-1,TAB-1 Item no-13	Nos	10
9	Copper crimping socket 10 sqmm	NIL	EDTS -201 REV-A, Amnd-1,TAB-1 Item no-1	Nos	5
10	Copper crimping socket 10 sqmm	NIL	EDTS -201,TAB-1 Item no-2	Nos	30
11	Copper crimping socket 4 sqmm	NIL	EDTS -201,TAB-1 Item no-8	Nos	10
12	Cable markers for Under frame & roof wiring for conventional SCN coaches	NIL	SE 70109	SET	1
13	Polyamide Flexible conduit of PG-48 with dimension as per EDTS 291 Rev-0 with cor-1 & 2 , Table-1 item-10	NIL	RDSO/PE/SPEC/AC/0138 -2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 & 2	Mtrs	5

14	Tube clamp SGB-48 with dimension as per EDTS 291 Rev-0 with cor-1 &2 , Table-10 item-8	NIL	RDSO/PE/SPEC/AC/0138 -2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	3
15	End fitting PG-48 as per EDTS 291 Rev-0 with cor-1 &2 , Table-3 item- 9	NIL	RDSO/PE/SPEC/AC/0138 -2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	4
16	Hexagonal lock nut with PG thread GMM-48 with dimension as per EDTS 291 Rev-0 with cor-1 &2 , Table-12 item-10	NIL	RDSO/PE/SPEC/AC/0138 -2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	4
17	Rubber gromate A-19/E-3.9 for NW 48	IS 5270-69 TY2	NIL	Nos	10
18	PVC Sleeve ID 16mm Red	IS-1951-61	NIL	Mtrs	5
19	PVC Sleeve ID 16mm Blue	IS-1951-61	NIL	Mtrs	5
20	Junction box complete	NIL	SE11128	Nos	1
21	Junction box complete	NIL	SE11133	Nos	1
22	Junction box complete	NIL	SE11134	Nos	1
23	Junction box complete	NIL	SE11124	Nos	2
24	Cable box	NIL	SE11179	Nos	1
25	Cable box	NIL	SE11178	Nos	1
26	Conduit dia 50 X 1460 mm	IS 9537-1981 part-2	NIL	Nos	1
27	Conduit dia 50 X 910 mm	IS 9537-1981 part-2	NIL	Nos	1
28	Bend conduit dia 32 mm	NIL	SE11140	Nos	3
29	Conduit dia 32 X 1320 mm	IS 9537-1981 part-2	NIL	Nos	3

30	Conduit dia 32 X 3000 mm	IS 9537-1981 part-2	NIL	Nos	3
31	Conduit dia 32 X 2700 mm	IS 9537-1981 part-2	NIL	Nos	3
32	Conduit dia 25 X 126 mm	IS 9537-1981 part-2	NIL	Nos	2
33	Conduit dia 20 X 3000 mm	IS 9537-1981 part-2	NIL	Nos	1
34	Conduit dia 20X 325 mm	IS 9537-1981 part-2	NIL	Nos	1
35	Conduit dia 20 X 250 mm	IS 9537-1981 part-2	NIL	Nos	1
36	Conduit dia 20 X 150 mm	IS 9537-1981 part-2	NIL	Nos	1
37	Conduit dia 20 X 780 mm	IS 9537-1981 part-2	NIL	Nos	1
38	Coupler dia 50 mm	NIL	CC 72100	Nos	1
39	Coupler dia 32 mm	IS 2667-88	NIL	Nos	3
40	Coupler dia 20 mm	IS 2667-88	NIL	Nos	1
41	Lock nut dia 50 mm	IS 3837-76 TAB-6	NIL	Nos	2
42	Lock nut dia 32 mm	IS 3837-76 TAB-6	NIL	Nos	18
43	Lock nut dia 25 mm	IS 3837-76 TAB-6	NIL	Nos	4
44	Lock nut dia 20 mm	IS 3837-76 TAB-6	NIL	Nos	8
45	Internally screwed bush dia 50mm	NIL	ICF/SK-7-2-230 Item no-13	Nos	2
46	Internally screwed bush dia 32 mm	NIL	ICF/SK-7-2-230 Item no-11	Nos	18
47	Internally screwed bush dia 25 mm	NIL	ICF/SK-7-2-230 Item no-10	Nos	4

48	Internally screwed bush dia 20 mm	NIL	ICF/SK-7-2-230 Item no-9	Nos	8
49	Angle for clamping	NIL	SE 11154	Nos	5
50	Angle for conduit clamping	NIL	SE 11153	Nos	7
51	Mounting chanel	NIL	SE 11182	Nos	1
52	Bracket for EFT	NIL	SE11181	Nos	1
53	Bracket complete	NIL	SE 11150	Nos	2
54	Bracket complete	NIL	SE 11151	Nos	2
55	Bracket	NIL	CC 71107	Nos	1
56	Bracket	NIL	CC 71108	Nos	3
57	Bracket	IRS.M.41.97	NIL	Nos	3
58	Clamp dia 50 mm	NIL	T-7-1-756 ALT e ITEM no-11	Nos	8
59	Clamp dia 32 mm	NIL	T-7-1-753 ALT b ITEM no-7	Nos	11
60	Clamp dia 20 mm	NIL	T-7-1-756 ALT e ITEM no-3	Nos	194
61	Hex head bolt M-6 X 65 mm	IS 1364 PT-1 -92 5.6 CE	LIHW01	Kg	2
62	Hex nut (DC) M-6	IS 1364 PT-3-92 -.6 item no-11	LIHW08	Kg	1
63	Spring washer B - 6	IS 3063 - 1994 item no-19	LIHW09	Kg	0.5
64	Plain washer B-6	IS 2016-1967, steel item no-5	LIHW09	Kg	0.5
65	Hex head screw M-6 X 20 mm	IS 1364 PT-2 -92 5.6 CE item no-5	LIHW02	Kg	1
66	Hex head screw M-10 X 50 mm	IS 1364 PT-2 -92 5.6 CE item no-22	LIHW02	Kg	0.5

67	Hex nut (DC) M-10	IS 1364 PT-3-92 -.6 item no-13	LIHW08	Kg	0.5
68	Spring washer B - 10	IS 3063 - 1994 item no-21	LIHW09	Kg	0.5
69	Plain washer B-10	IS 2016-1967, steel	NIL	Kg	0.5

Note:-1. ALL conduits & pipes shall be threaded 50 mm length at both ends to IS :9537-81 PT-2 APPX. B

Note:-2. Internally screwed bushes to be provided at open ends of conduits and pipes terminating in junction boxes.

Note:-3. Screwed coupler of suitable dia to be used for joining of conduits & pipes to be provided on all conduits & pipes terminating near equipments .

Note:-4.Length of conduits & pipes inside the junction box to be kept minimum possible after provision of lock nut & bushes.

Note:-5. conduits to IS 9537 -81 PT-2 with high protection (hot deep galvanized coating as per clause 5.1 C & mechanical properties should be as per 5.1 C -3 may also be used.

Note:-6.Alluminum alloy conduits to threadable quality to designation 63400 WP condition of IS 1285-75 suitable for electrical wiring and dimensions conforming to IS 9537 -81 PT-2

Annexure of Tender No.68.12.5474 due on 20.11.2012.

Annexure of Tender No..68.12.5474 due on 20.11.2012.

One Set is consisting of following 62 items.

Sn	Description	IS No.	Detail drg./ Spec.	Unit	Qty. per S
1	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Red " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 , with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
2	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Blue " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 , with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
3	10 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " grey " working voltage up to 750 V.	NIL	ELRS/SPEC/ELC/0019 ,Rev-2 , with RDSO's letter no-EL/6.6.3 dated 23.03.2009	Mtrs	25
4	4 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Red " working voltage up to 750 V.	NIL	EDTS 132,REV-C, AM1, Data sheet-2	Mtrs	10
5	4 sq.mm Thin walled flexible elastomeric cables with copper conductors colour " Blue " working voltage up to 750 V.	NIL	EDTS 132,REV-C, AM1, Data sheet-2	Mtrs	10

6	FRLT Cotton insulation tape blue	NIL	ICF/ELEC/921,Rev-0	Nos	2
7	FRLT Cotton insulation tape Red	NIL	ICF/ELEC/921,Rev-0	Nos	2
8	Copper crimping socket 10 sqmm	NIL	EDTS -201 REV-A, Amnd-1,TAB-1 Item no-13	Nos	10
9	Copper crimping socket 10 sqmm	NIL	EDTS -201 REV-A, Amnd-1,TAB-1 Item no-1	Nos	5
10	Copper crimping socket 10 sqmm	NIL	EDTS -201,TAB-1 Item no-2	Nos	30
11	Copper crimping socket 4 sqmm	NIL	EDTS -201,TAB-1 Item no-8	Nos	10
12	Cable markers for Under frame wiring for conventional GS coaches	NIL	SG 70010 Alt -C	SET	1
13	Polyamide Flexible conduit of PG-48 with dimension as per EDTS 291 Rev-0 with cor-1 &2 , Table-1 item-10	NIL	RDSO/PE/SPEC/AC/0138 - 2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Mtrs	5
14	Tube clamp SGB-48 with dimension as per EDTS 291 Rev-0 with cor-1 &2 , Table-10 item-8	NIL	RDSO/PE/SPEC/AC/0138 - 2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	3
15	End fitting PG-48 as per EDTS 291 Rev-0 with cor-1 &2 , Table-3 item-9	NIL	RDSO/PE/SPEC/AC/0138 - 2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	4
16	Hexagonal lock nut with PG thread GMM-48 with dimension as per EDTS 291 Rev-0 with cor-1 &2 , Table-12 item-10	NIL	RDSO/PE/SPEC/AC/0138 - 2009 Rev-0 (latest version) & dimensions as per data sheets of EDTS 291 Rev-0 with cor-1 &2	Nos	4
17	Rubber gromate A-19/E-3.9 for NW 48	IS 5270-69 TY2		Nos	10
18	PVC Sleeve ID 16mm Red	IS-1951-61		Mtrs	5
19	PVC Sleeve ID 16mm Blue	IS-1951-61		Mtrs	5
20	Junction box complete	NIL	SE11128	Nos	1

21	Junction box complete	NIL	SE11133	Nos	1
22	Junction box complete	NIL	SG11121	Nos	1
23	Junction box complete	NIL	SE11124	Nos	1
24	Cable box	NIL	SE11179	Nos	1
25	Cable box	NIL	SE11178	Nos	1
26	Conduit dia 50 X 1460 mm	IS 9537-1981 part-2	NIL	Nos	1
27	Conduit dia 50 X 910 mm	IS 9537-1981 part-2	NIL	Nos	1
28	Conduit dia 32 X 1065 mm	IS 9537-1981 part-1	NIL	Nos	3
29	Conduit dia 32 X 3000 mm	IS 9537-1981 part-2	NIL	Nos	3
30	Conduit dia 32 X 2730 mm	IS 9537-1981 part-2	NIL	Nos	3
31	Conduit dia 25	IS 9537-1981 part-2	SG11125	Nos	2
32	Conduit dia 20 mm	NIL	SG11124	Nos	1
33	Conduit dia 20 X 600 mm	IS 9537-1981 part-2	NIL	Nos	1
34	Conduit dia 20 X 1260 mm	IS 9537-1981 part-2	NIL	Nos	1
35	Conduit dia 20 X 100 mm	IS 9537-1981 part-2	NIL	Nos	1
36	Coupler dia 50 mm	NIL	CC 72100	Nos	1
37	Coupler dia 32 mm	IS 2667-88	NIL	Nos	3
38	Lock nut dia 50 mm	IS 3837-76 TAB-6	NIL	Nos	2
39	Lock nut dia 32 mm	IS 3837-76 TAB-6	NIL	Nos	12
40	Lock nut dia 25 mm	IS 3837-76 TAB-6	NIL	Nos	4

41	Lock nut dia 20 mm	IS 3837-76 TAB-6	NIL	Nos	8
42	Internally screwed bush dia 50mm	NIL	ICF/SK-7-2-230 Item no-13	Nos	2
43	Internally screwed bush dia 32 mm	NIL	ICF/SK-7-2-230 Item no-11	Nos	12
44	Internally screwed bush dia 25 mm	NIL	ICF/SK-7-2-230 Item no-10	Nos	4
45	Internally screwed bush dia 20 mm	NIL	ICF/SK-7-2-230 Item no-9	Nos	8
46	Angle for clamping	NIL	SE 11154	Nos	7
47	Angle for conduit clamping	NIL	SE 11153	Nos	7
48	Mounting chanel	NIL	SE 11182	Nos	1
49	Bracket for EFT	NIL	SE11181	Nos	1
50	Bracket complete	NIL	SE 11150	Nos	2
51	Bracket	NIL	CC 71107	Nos	1
52	Bracket	NIL	CC 71108	Nos	3
53	Clamp dia 50 mm	NIL	T-7-1-756 ALT e ITEM no-11	Nos	4
54	Clamp dia 32 mm	NIL	T-7-1-753 ALT b ITEM no-7	Nos	11
55	Hex head bolt M-6 X 65 mm	IS 1364 PT-1 -92 5.6 CE	LIHW01	Kg	2
56	Hex nut (DC) M-6	IS 1364 PT-3-92 -.6 item no-11	LIHW08	Kg	1
57	Spring washer B - 6	IS 3063 - 1994 item no-19	LIHW09	Kg	0.5
58	Plain washer M-6	IS 2016- 1967, steel item no-5	LIHW09	Kg	0.5
59	Hex head screw M-10 X 50 mm	IS 1364 PT-2 -92 5.6 CE item no-22	LIHW02	Kg	0.5

60	Hex nut (DC) M-10	IS 1364 PT-3-92 -.6 item no-13	LIHW08	Kg	0.5
61	Spring washer B - 10	IS 3063 - 1994 item no-21	LIHW09	Kg	0.5
62	Plain washer M-10	IS 2016- 1967, steel	NIL	Kg	0.5

Note:-1. ALL conduits & pipes shall be threaded 50 mm length at both ends to IS :9537-81 PT-2 APPX. B

Note:-2 Internally screwed bushes to be provided at open ends of conduits and pipes terminating in junction boxes.

Note:-3. Screwed coupler of suitable dia to be used for joining of conduits & pipes to be provided on all conduits & pipes terminating near equipments .

Note:-4.Length of conduits & pipes inside the junction box to be kept minimum possible after provision of lock nut & bushes

Note:-5. conduits to IS 9537 -81 PT-2 with high protection (hot deep galvanized coating as per clause 5.1 C & mechanical properties should be as per 5.1 C -3 may also be used.

Note:-6.Alluminum alloy conduits to threadable quality to designation 63400 WP condition of IS 1285-75 suitable for electrical wiring and dimensions conforming to IS 9537 -81 PT-2

AMM/CRWS/BPL