



Specification:

Supply Of General Electrical Material Contract in SGR

1. Scope of Work.

- Prasa-Cres Facilities Management is looking to appoint 3 x service providers that will form a panel of contractors to supply and delivery general electrical materials.
- The scope of works entails the supply and delivery of General Electrical Material on the as and when required basis as per specified items in the Bill of Quantities. The location where the material is to be delivered is Elandsfontein and Langlaagte Prasa-Cres Facilities Depots.

2. General

- Only quality and SABS approved material must be quoted for, material of inferior quality will not be accepted, and the replacement of such material will be to the contractors' cost.
- All material requests will be in the form of a Purchase Order from PRAS-CRES Supply Chain Management department to the contractor. The contractor is expected to deliver the material within 2-days from the time of receiving a Purchase Order.
- Material request and the delivery of such material will only be during normal working hours i.e., from Monday to Friday (07h30 to16h00).
- The contractor will ensure that material delivered is the material requested and false deliveries will be corrected at the contractor own cost.

3. Terms of Payment

- The terms of payment will be monthly and upon receiving the invoice, PRASA-CRES shall pay the contractor within 30 days. This is subject to the invoicing being both correct and free from anomalies.
- Invoices shall show the clear description of the material requested and contract rates. A copy of the signed delivery notice will be attached and invoice as a supporting document.
- If invoices are presented which do not fully comply with the format as detailed, they will be rejected, and PRASA-CRES will accept no liability and/or responsibility for the late payment of the invoices which have been incorrectly addressed by the Contractor.

4. BILL OF QUANTITIES

SUPPLY AND DELIVER GENERAL ELECTRICAL MATERIALS IN SGR.

Item No	Description	Unit	Local Content Designation	Year 1 Rate (Vat Excl.)	Year 2 Rate (Vat Excl.)	Year 3 Rate (Vat Excl.)
1.0	LIGHTING					
1.1	LAMP PL 9 COOL WHITE DULUX S 923 TYPE OSRAM	Ea	NA	R	R	R
1.2	LAMP PL13 2PIN ENERGY SAVING	Ea	NA	R	R	R
1.3	LAMP PL18 4PIN ENERGY SAVING	Ea.	NA	R	R	R
1.4	LAMP PL18 2PIN ENERGY SAVER	Ea	NA	R	R	R
1.5	LAMP PL26, 2PIN ENERGY SAVING	Ea	NA	R	R	R
1.6	LAMP 2 D 16 WATT OSRAM	Ea	NA	R	R	R
1.7	LAMP 2 D 28 WATT	Ea	NA	R	R	R
1.8	12W LED round downlight panel	Ea	100% LED	R	R	R
1.9	9W ES LED STICKS DAY LIGHT	Ea	100% LED	R	R	R
1.10	LAMP. 70 W FOR ONE TYPE HS. SON-E 230 V, 50HZ (INTERNAL IGNITOR)	Ea	NA	R	R	R
1.11	LAMP, SODIUM VAPOUR. E40 BASE 400 W HIGH PRESSURE, TUBULAR. 230V. 47 MM DIA X 283 MM LONG.(55/32906-BAL)	Ea	NA	R	R	R
1.12	LAMP, SODIUM VAPOUR. E40 BASE, 250 W HIGH PRESSURE, TUBULAR. UNIVERSAL BURNING 220V - 230V. USERS DESCRIPTION 47 MM DIA X 257 MM LONG.	Ea	NA	R	R	R
1.3	LAMP, SODIUM VAPOUR. E27 BASE, 70 W HIGH PRESSURE, ELLIPTICAL. INCORPORATING INTERNAL IGNITION DEVICE. UNIVERSAL BURNING 220 - 230V. USERS DESCRIPTION 71 MM DIA X 156 MM	Ea	NA	R	R	R

1.14	LAMP. 70 W FOR ONE TYPE HS. SON-E E-27 230 V, 50HZ (EXTERNAL IGNITOR)	Ea	NA	R	R	R
1.15	LAMP, FLUORESCENT. 1,2 M LONG X 26 MM DIA 36 W COOL WHITE, SWITCH START	Ea	NA	R	R	R
1.16	LAMP, FLUORESCENT 590 MM LONG X 26 MM DIA 18 W ,WHITE, SWITCH START	Ea	NA	R	R	R
1.17	LAMP, FLUORESCENT. 1,5 M LONG X 26 MM DIA.58 W COOL WHITE, SWITCH START ONLY.	Ea	NA	R	R	R
1.18	54 W T5 FLUORESCENT TUBE, 4100 LM, 1200MM	Ea	NA	R	R	R
1.19	35 W T5 FLUORESCENT TUBE, 3300 LM, 1450MM	Ea	NA	R	R	R
1.20	FLUORESCENT LAMP T5 28 WATT COOL WHITE 1150MM	Ea	NA	R	R	R
1.21	14 W T5 FLUORESCENT TUBE, 1100 LM, 550MM,	Ea	NA	R	R	R
1.22	18 W T8 LED 4 FOOT TUBE	Ea	100% LED	R	R	R
1.23	20W T5 LED TUBE 5FEET	Ea	100% LED	R	R	R
1.24	50W LED SPORTLIGHT	Ea	100% LED	R	R	R
1.25	100W LED SPORTLIGHT	Ea	100% LED	R	R	R
1.26	150W LED SPORTLIGHT	Ea	100% LED	R	R	R
1.27	LAMPHOLDER. 250 V. BAYONET-CAP. B.22. BRASS, THREADED 20 MM FOR ELECTRICAL CONDUIT, WITH SHADE RING.	Ea	NA	R	R	R
1.28	LAMPHOLDER. 250 V, EDISON SCREW E.27, PORCELAIN, NON-SKIRTED, BATTEN TYPE, WITH A BASE AND MOUNTING FACILITIES ON THE OUTSIDE	Ea	NA	R	R	R
1.29	LAMPHOLDER. 250 V,GOLIATH EDISON SCREW E40 PORCELAIN, NON-SKIRTED.	Ea	NA	R	R	R
1.30	LAMPHOLDER. 250 V, BAYONET-CAP, B.22, BRASS, THREADED 1/2 (26 TPI), WITH SHADE RING,	Ea	NA	R	R	R
1.31	LAMPHOLDER. 250 V, BAYONET-CAP, B.22, PORCELAIN, NON-SKIRTED, BATTEN TYPE.	Ea	NA	R	R	R

1.32	BALLAST FLUORESCENT 13 WATT FOR 1 * PL/2D LAMP. HARPER NR. C31B1230 OR SIMILAR. 0.17 AMPS. LOW POWER FACTOR	Ea	NA	R	R	R
1.33	BALLAST FOR 2 x 1.200 METRE 36W 230W ELECTRONIC INSTANT START	Ea	NA	R	R	R
1.34	80W T5 ELECTRONICS BALLAST	Ea	NA	R	R	R
1.35	CAPACITOR FIXED, 250 VOLT AC. 50 HZ.20 UF SUITABLE FOR 250 W. MERCURY VAPOUR AND 35/55 W. LOW PRESSURE SODIUM VAPOUR LAMPS.	Ea	NA	R	R	R
1.36	IGNITOR. FOR 250 & 400 WATT METAL HALIDE & HIGH PRESSURE SODIUM LAMPS UP TO 6A.	Ea	NA	R	R	R
1.37	IGNITOR. FOR 250 & 400 WATT METAL HALIDE & HIGH PRESSURE SODIUM LAMPS UP TO 6A.	Ea	NA	R	R	R
2.0	WIRE ELECTRICAL					
2.1	WIRE ELECTRICAL. EARTHING WIRE 4 SQ MM STRANDED ANNEALED COPPER CONDUCTORS. USERS DESCRIPTION EARTHING WIRE	M	90% Electrical Cables	R	R	R
2.2	WIRE ELECTRICAL. 600/1 000 VOLTS 1,5 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS. PVC INSULATED RED, WHITE AND BLACK UNSHEATHED	M	90% Electrical Cables	R	R	R
2.3	WIRE ELECTRICAL. 600/1 000 VOLTS 2,5 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS. PVC INSULATED RED, WHITE AND BLACK UNSHEATHED	M	90% Electrical Cables	R	R	R
2.4	WIRE ELECTRICAL. 600/1 000 VOLTS 4 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED RED, WHITE AND BLACK UNSHEATHED	M	90% Electrical Cables	R	R	R
2.5	WIRE ELECTRICAL. 600/1 000 VOLTS 6 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED RED, WHITE AND BLACK UNSHEATHED	M	90% Electrical Cables	R	R	R
2.6	WIRE ELECTRICAL. 600/1 000 VOLTS 1,5 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED GREEN AND YELLOW UNSHEATHED	M	90% Electrical Cables	R	R	R

2.7	WIRE ELECTRICAL. 600/1 000 VOLTS 2,5 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED GREEN AND YELLOW UNSHEATHED	M	90% Electrical Cables	R	R	R
2.8	WIRE ELECTRICAL. 600/1 000 VOLTS 4 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED GREEN AND YELLOW UNSHEATHED	M	90% Electrical Cables	R	R	R
2.9	WIRE ELECTRICAL. 600/1 000 VOLTS 6 SQ MM SINGLE CORE. STRANDED ANNEALED COPPER CONDUCTORS, PVC INSULATED GREEN AND YELLOW UNSHEATHED	M	90% Electrical Cables	R	R	R
2.10	WIRE ELECTRICAL. 600/1 000 VOLTS 1.5 SQ MM TWO CORE PLUS EARTH FLAT SUFFIX WIRE.	M	90% Electrical Cables	R	R	R
2.11	WIRE ELECTRICAL. 600/1 000 VOLTS 2.5 SQ MM TWO CORE PLUS EARTH FLAT SUFFIX WIRE.	M	90% Electrical Cables	R	R	R
2.12	WIRE ELECTRICAL. 600/1 000 VOLTS 4 SQ MM TWO CORE PLUS EARTH FLAT SUFFIX WIRE.	M	90% Electrical Cables	R	R	R
2.13	WIRE ELECTRICAL. 600/1 000 VOLTS 6 SQ MM TWO CORE PLUS EARTH FLAT SUFFIX WIRE.	M	90% Electrical Cables	R	R	R
3.0	CABLE ELECTRICAL					
3.1	CABLE ELECTRICAL. 600/1 000 VOLTS 6 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS, ANNEALED. PVC INSULATED, PVC BEDDED ECC/SWA PVC SHEATHED.	M	90% Electrical Cables	R	R	R
3.2	CABLE ELECTRICAL. 600/1 000 VOLTS 10 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS, PVC INSULATED, PVC BEDDED. ECC/SWA PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.3	CABLE ELECTRICAL. 600/1 000 VOLTS 16 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS PVC INSULATED, PVC BEDDED. ECC/SWA PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.4	CABLE ELECTRICAL. 600/1 000 VOLTS 25 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R

3.5	CABLE ELECTRICAL. 600/1 000 VOLTS 35 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.6	CABLE ELECTRICAL. 600/1 000 VOLTS 50 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.7	CABLE ELECTRICAL. 600/1 000 VOLTS 70 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.8	CABLE ELECTRICAL. 600/1 000 VOLTS 95 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.9	CABLE ELECTRICAL. 600/1 000 VOLTS 120 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
3.10	CABLE ELECTRICAL. 600/1 000 VOLTS 185 SQ MM FOUR CORE. STRANDED COPPER CONDUCTORS. PVC INSULATED PVC BEDDED. ECC/SWA, PVC SHEATHED	M	90% Electrical Cables	R	R	R
4.0	CONDUIT AND ACCESSORIES					
4.1	CONDUIT BEND GALVANISED,INSPECTION BEND.SCREWED-END20 MM BEND,	Ea	100% Steel Products	R	R	R
4.2	CONDUIT BOX. GALVANISED, MILD STEEL, WITHOUT COVER.SCREWED-END.20 MM CONDUIT OUTLET	Ea	100% Steel Products	R	R	R
4.3	CONDUIT BOX. GALVANISED, MILD STEEL, WITHOUT COVER.THREE-WAY.SCREWED-END.20 MM CONDUIT OUTLET	Ea	100% Steel Products	R	R	R
4.4	CONDUIT,NIPPLE BRASS,HEXAGON HEAD, EXTERNALLY THREADED 20 MM, 11,1 MM LONG.	Ea	N/A	R	R	R
4.5	CONDUIT,NIPPLE BRASS,HEXAGON HEAD, EXTERNALLY THREADED 25 MM, 11,1 LONG.	Ea	N/A	R	R	R
4.6	CONDUIT BUSH BRASS, WITH INTERNAL THREAD, SCREWED 20 MM BUSHING.	Ea	N/A	R	R	R

4.7	CONDUIT BUSH BRASS, WITH INTERNAL THREAD, SCREWED 25 MM BUSHING	Ea	N/A	R	R	R
4.8	CONDUIT SADDLE BLACK ENAMELLED,MILD STEEL,FULL SADDLE,25 MM STRAP,	Ea	100% Steel Products	R	R	R
4.9	CONDUIT, RIGID GALVANISED, MILD STEEL, WELDED SEAM, TYPE A. SCREWED-END.20 MM FITTED WITH COUPLER AT ONE END AND PLASTIC END CAP OTHER END. CONDUIT,METAL,RIGID	Ea	100% Steel Products	R	R	R
4.10	CONDUIT,METAL,RIGID GALVANISED, MILD STEEL, WELDED SEAM, TYPE A. SCREWED-END. 50 MM FITTED WITH COUPLER AT ONE END AND PLASTIC END CAP OTHER END.	Ea	100% Steel Products	R	R	R
4.11	CONDUIT BEND GALVANISED, MILD STEEL, INSPECTION BEND. COMPLETE WITH COVER AND SCREWS TYPE A. SCREWED-END.20 MM BEND	Ea	100% Steel Products	R	R	R
4.12	CONDUIT BOX. GALVANISED, MILD STEEL, WITHOUT COVER. SMALL CIRCULAR TERMINAL. TYPE A SCREWED-END.20 MM CONDUIT OUTLET	Ea	100% Steel Products	R	R	R
4.13	CONDUIT BOX. GALVANISED, MILD STEEL, WITHOUT COVER. SMALL CIRCULAR THREE-WAY. TYPE A. SCREWED-END.20 MM CONDUIT OUTLET	Ea	100% Steel Products	R	R	R
4.14	CONDUIT SADDLE GALVANISED,MILD STEEL,FLUTED FULL SADDLE,20 MM STRAP,RETAINING	Ea	100% Steel Products	R	R	R
4.15	CONDUIT CHASE NIPPLE BRASS,HEXAGON HEAD, EXTERNALLY THREADED 20 MM, 11,1 MM LONG. CHASE NIPPLE,CONDUIT	Ea	100% Steel Products	R	R	R
4.16	CONDUIT CHASE NIPPLE BRASS,HEXAGON HEAD, EXTERNALLY THREADED 25 MM, 11,1 LONG CHASE NIPPLE,CONDUIT	Ea	100% Steel Products	R	R	R
4.17	CONDUIT BUSH BRASS, WITH INTERNAL THREAD, SCREWED 20 MM BUSHING,ELECTRICAL CONDUIT	Ea	100% Steel Products	R	R	R

4.18	CONDUIT BUSH BRASS, WITH INTERNAL THREAD, SCREWED 25 MM BUSHING,ELECTRICAL CONDUIT	Ea	100% Steel Products	R	R	R
4.19	CONDUIT SADDLE BLACK ENAMELLED,MILD STEEL, FLUTED,FULL SADDLE,25 MM STRAP,RETAINING	Ea	100% Steel Products	R	R	R
4.20	CONDUIT BOX. PVC, CIRCULAR BOX, 20 MM, TEE-THREE WAY. TO QUOTED PART NUMBER OR EQUAL CONDUIT OUTLET	Ea	N/A	R	R	R
4.21	CONDUIT BOX. PVC, CIRCULAR BOX, 20 MM, TERMINAL-ONE WAY.	Ea	N/A	R	R	R
4.22	CONDUIT BOX PVC, CIRCULAR BOX, 25 MM THROUGH-TWO WAY.	Ea	N/A	R	R	R
4.23	CONDUIT COUPLING. PVC 20 MM	Ea	N/A	R	R	R
4.24	CONDUIT ELBOW, ELECTRICAL WHITE P.V.C. 20 MM. COMPLETE WITH COVER & SCREWS	Ea	N/A	R	R	R
4.25	CONDUIT BEND PVC. INSPECTION BEND, 20 MM, COMPLETE WITH COVER & SCREWS	Ea	N/A	R	R	R
4.26	CONDUIT TEE PVC, INSPECTION TYPE, 20 MM, COMPLETE WITH COVER & SCREWS	Ea	N/A	R	R	R
4.27	CONDUIT, RIGID PVC, HEAVY GAUGE, 20 MM. 4 METRE LENGTHS	Ea	N/A	R	R	R
4.28	CONDUIT SADDLE 20 MM PVC STRAP SADDLE	Ea	N/A	R	R	R
4.29	CONDUIT BOX. PVC, CIRCULAR BOX, 20 MM, TEE-THREE WAY.	Ea	N/A	R	R	R
4.30	CONDUIT BOX. PVC. CIRCULAR BOX. 20 MM. INTERSECTION-FOUR WAY	Ea	N/A	R	R	R
4.31	CONDUIT COUPLING. PVC 20 MM TO QUOTED PART NUMBER OR EQUAL COUPLING	Ea	N/A	R	R	R
4.32	CONDUIT COUPLING PVC, 25 MM. TO QUOTED PART NUMBER OR EQUAL COUPLING	Ea	N/A	R	R	R

4.33	CONNECTOR PLUG ELECTRICAL FEMALE 3 PIN 2 + E 250 V. 10 A CONNECTOR FOR CLASS 1 APPLIANCES FOR HOT CONDITIONS IN COMPLIANCE WITH GOVERNMENT NOTICE NO.1344 OF JUNE 1978 SCHEDULE 10	Ea	N/A	R	R	R
4.34	CONDUIT BOSAL 20MM GALVANIZED. 4 METRE LENGTHS	M	100% Steel Products	R	R	R
4.35	CONDUIT, RIGID STEEL GALVANIZED, HEAVY GAUGE, 20 MM. 4 METRE LENGTHS	Ea.	100% Steel Products	R	R	R
4.36	COUPLING BOSAL 20MM GALVANIZED	Ea	100% Steel Products	R	R	R
4.37	CONDUIT BOX. PVC. CIRCULAR 4-WAY LOOP-IN BOX, 20 MM BACK OUTLET KNOCK-OUTS	Ea	N/A	R	R	R
4.38	CONDUIT,RACEWAY,NON METALLIC TRUNKING, WIRING AND CABLE TRUNKING PVC WHITE WIDTH 16 MM X DEPTH 16 MM X 2 METRE LONG, COMPLETE WITH SNAP ON LID	Ea	N/A	R	R	R
4.39	CONDUIT BOX. PVC. CIRCULAR 4-WAY LOOP-IN BOX, 20 MM BACK OUTLET KNOCK-OUTS, TO QUOTED PART NUMBER OR EQUAL CONDUIT OUTLET	Ea	N/A	R	R	R
5.0	SOLAR PANELS					
5.1	400 WATT, 41.08(VMP) SOLAR PANEL, MONO CELL	Ea	70%	R	R	R
5.2	105 A/H DEEP CYCLE BATTERIES	Ea	N/A	R	R	R
5.3	INVERTOR 2000W	Ea	70%	R	R	R
6.0	FERRULES AND LUGS					
6.1	FERRULE, CRIMP TYPE SIZE 10 MM SPLICE, CONDUCTOR	Ea	NA	R	R	R
6.2	FERRULE, CRIMP TYPE SIZE 1,5 MM.SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R

6.3	FERRULE, CRIMP TYPE SIZE 2,5 MM. SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.4	FERRULE, CRIMP TYPE SIZE 4,0 MM SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DEMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.5	FERRULE, CRIMP TYPE DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SIZE 6MM SQ SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.6	FERRULE, CRIMP TYPE SIZE 10 MM SQ DESCRIPTION USERS IN ACCORDANC WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.7	FERRULE, CRIMP TYPE SIZE 16 MM.SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.8	FERRULE, CRIMP TYPE SIZE 25 MM.SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.9	FERRULE, CRIMP TYPE SIZE 35 MM.SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.10	FERRULE, CRIMP TYPE SIZE 50 MM.SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.11	FERRULE, CRIMP TYPE SIZE 150 MM. SQ DESCRIPTION USERS IN ACCORDANCE WITH STAMCOR ELECTRIC DIMENSION CHART SPECIFICATIONSBS 2871	Ea	NA	R	R	R
6.12	CRIMPING LUG. CABLE SIZE 1,5 SQ MM CLEARANCE HOLE FOR STUD M4, TERMINAL,LUG	Ea	NA	R	R	R
6.13	CRIMPING LUG CABLE SIZE 1,5 SQ MM CLEARANCE HOLE FOR STUD M6, TERMINAL,LUG	Ea	NA	R	R	R
6.14	CRIMPING LUG. CABLE SIZE2,5 SQ MM CLEARANCE HOLE FOR STUD M5. TERMINAL,LUG	Ea	NA	R	R	R

6.15	CRIMPING LUG. CABLE SIZE 4 SQ MM CLEARANCE HOLE FOR STUD M5. TERMINAL,LUG	Ea	NA	R	R	R
6.16	CRIMPING LUG. CABLE SIZE 4 SQ MM CLEARANCE HOLE FOR STUD M6. TERMINAL,LUG	Ea	NA	R	R	R
6.17	CRIMPING LUG. CABLE SIZE 6 SQ MM CLEARANCE HOLE FOR STUD M6, TERMINAL,LUG	Ea	NA	R	R	R
6.18	CRIMPING LUG. CABLE SIZE10 SQ MM CLEARANCE HOLE FOR STUD M8,	Ea	NA	R	R	R
6.19	CRIMPING LUG. CABLE SIZE16 SQ MM CLEARANCE HOLE FOR STUD M6, TERMINAL,LUG	Ea	NA	R	R	R
6.20	CRIMPING LUG. CABLE SIZE16 SQ MM CLEARANCE HOLE FOR STUD M8,	Ea	NA	R	R	R
6.21	CRIMPING LUG. CABLE SIZE25 SQ MM CLEARANCE HOLE FOR STUD M10,	Ea	NA	R	R	R
6.22	CRIMPING LUG. CABLE SIZE35 SQ MM CLEARANCE HOLE FOR STUD M8,	Ea	NA	R	R	R
6.23	CRIMPING LUG. CABLE SIZE 35 SQ MM CLEARANCE HOLE FOR STUD M10,	Ea	NA	R	R	R
6.24	CRIMPING LUG. CABLE SIZE 50 SQ MM CLEARANCE HOLE FOR STUD M12,	Ea	NA	R	R	R
6.25	CRIMPING LUG. CABLE SIZE 95 SQ MM CLEARANCE HOLE FOR STUD M12,	Ea	NA	R	R	R
6.26	CRIMPING LUG, INSULATED. CABLE SIZES 1,5 TO 2,5 SQ MM CLEARANCE HOLE FOR STUD M3, COLOURED BLUE, SEAMED THIMBLE, RING PALM BETWEEN 8,0 MM AND 8,5 MM WIDE	Ea	NA	R	R	R
6.27	CRIMPING LUG. CABLE SIZE 25 SQ MM CLEARANCE HOLE FOR STUD M8,	Ea	NA	R	R	R
7.0	CONNECTOR STRIP					
7.1	CONNECTOR STRIP, (PVC). 12-WAY, 10 AMP.	Ea	NA	R	R	R
7.2	CONNECTOR STRIP, (PVC). 12-WAY, 15 AMP, WACO	Ea	NA	R	R	R

7.3	CONNECTOR STRIP, (PVC). 12-WAY, 30 AMP, WACO	Ea	NA	R	R	R
7.4	CONNECTOR STRIP, (PVC). 12-WAY, 6 AMP, WACO	Ea	NA	R	R	R
7.5	BLOCK CONNECTOR, (PORCELAIN). TWO-WAY, 6 AMP, WACO	Ea	NA	R	R	R
7.6	CONNECTOR, PLUG, ELECTRICAL ELECTRIC PLUG 3 PIN 250 V 16 A REWIRABLE, MATERIAL. CONNECTOR,PLUG	Ea	NA	R	R	R
7.7	QUICK CONNECT PUSH ON TYPE CABLE SIZES 0,75 TO 1,5 SQ MM FEMALE,20 MM LONG. FOR 6 MM TAB MALE TERMINAL , UTILUX	Ea	NA	R	R	R
8.0	CABLE SPLICING KIT					
8.1	CABLE SPLICING KIT. SUITABLE FOR IN-LINE JOINTING OF PVC INSULATED, PVC BEDDED, SWA, PVC SHEATHED CABLE, RATED FOR 1 000 VOLTS WITH AN OD. BETWEEN 9 MM & 25 MM. MINIMUM MOULD LENGTH 240 MM. KIT TO BE COMPLETE WITH THE NECESSARY MOULDS, RESINS AND TAPES	Ea	NA	R	R	R
8.2	CABLE SPLICING KIT. SUITABLE FOR IN-LINE JOINTING OF PVC INSULATED,PVC BEDDED SWA, PVC SHEATHED CABLE, RATED FOR 1 000 VOLTS WITH AN OD. BETWEEN 22 MM & 40 MM. KIT TO BE COMPLETE WITH THE NECESSARY MOULDS, RESINS AND TAPES	Ea	NA	R	R	R
8.3	CABLE SPLICING KIT. HEAT SHRINK TYPE 6 - 16 MMSQ. 3 CORE 1000 VOLT ARMoured PVC CABLE COMPLETE WITH ALL COMPONENTS	Ea	NA	R	R	R
8.4	HT CABLE SPLICING KIT. SUITABLE FOR IN-LINE JOINTING OF PVC INSULATED,, PVC SHEATHED CABLE, RATED FOR 1 000 VOLTS WITH AN OD. BETWEEN 29 MM & 52 MM. KIT TO BE COMPLETE WITH THE NECESSARY MOULDS, RESINS AND TAPES	Ea	NA	R	R	R
9.0	SOCKET-OUTLETS AND SWITCH-DISCONNECTORS					

9.1	SOCKET-OUTLET 250 VOLT AC. (3 PIN)16 A FLUSH MOUNTING,	Ea	NA	R	R	R
9.2	SWITCHED SOCKET-OUTLET 250 VOLT AC. (3 PIN)16 A FLUSH MOUNTING, RED, DOUBLESWITCHED-SOCKET OUTLET COMPLETE METAL COVER AND COVER SCREWS,	Ea	NA	R	R	R
9.3	SWITCHED SOCKET-OUTLET 250 VOLT AC. (3 PIN) 16 A (DOUBLE) SURFACE MOUNTING, SHUTTERED, INDUSTRIAL TYPE,	Ea	NA	R	R	R
9.4	SWITCHED SOCKET-OUTLET 250 VOLT AC. (3 PIN) 16 A (SINGLE) SURFACE MOUNTING, INDUSTRIAL TYPE,	Ea	NA	R	R	R
9.5	SWITCH-DISCONNECTOR. 500 VOLT AC. 60 AMP THREE-POLE MOULDED CASE SCREW-FIXING TYPE EQUAL TO AND INTERCHANGEABLE WITH SWITCH-KING SK3-60. SWITCH,LEVER SWITCH-KING	Ea	NA	R	R	R
9.6	SWITCH-DISCONNECTOR. 500 VOLT AC. 60 AMP TWO-POLE, MOULDED CASE SCREW-FIXING TYPE EQUAL TO OR INTERCHANGEABLE WITH SWITCH-KING SK2-60. SWITCH,LEVER SWITCH-KING	Ea	NA	R	R	R
9.7	SWITCH-DISCONNECTOR. 500 VOLT AC. 45 AMP TWO-POLE, MOULDED CASE SCREW-FIXING TYPE EQUAL TO AND INTERCHANGEABLE WITH SWITCH KING SK2-45. USERS DESCRIPTION STOVE-ISOLATOR. SWITCH,LEVER SWITCH-KING	Ea	NA	R	R	R
10.0	CIRCUIT BREAKERS					
10.1	EARTH LEAKAGE UNIT. WITH OVERLOAD PROTECTION. SINGLE PHASE AND NEUTRAL. 240 VOLT AC. 5 KA 60A 30MA SENSITIVITY.(HEINEMANN)	Ea	NA	R	R	R
10.2	PHOTOELECTRIC CONTROL UNIT, THERMAL TYPE, 230 V, 10 AMP,	Ea	NA	R	R	R
10.3	CONTACTOR 40A 1POLE	Ea.	NA	R	R	R

10.4	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 5A 1POLE 3KA	Ea	NA	R	R	R
10.5	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 10A 1POLE 3KA	Ea	NA	R	R	R
10.6	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 15A 1POLE 3KA	Ea	NA	R	R	R
10.7	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 30A 1POLE 3KA	Ea	NA	R	R	R
10.8	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 40A 1POLE 3KA	Ea	NA	R	R	R
10.9	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 60A 1POLE 3KA	Ea	NA	R	R	R
10.10	MINIATURE CIRCUIT BREAKER. SINGLE PHASE. 230 VOLTS AC. 80A 1POLE 3KA	Ea	NA	R	R	R
10.11	MINIATURE CIRCUIT BREAKER. SINGLE PHASE AND NEUTRAL. 230 VOLTS AC. 60A 1POLE + N 3KA	Ea	NA	R	R	R
10.12	MINIATURE CIRCUIT BREAKER. SINGLE PHASE AND NEUTRAL. 230 VOLTS AC. 80A 1POLE + N 3KA	Ea	NA	R	R	R
10.13	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 20A 3POLE	Ea	NA	R	R	R
10.14	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 30A 3POLE	Ea	NA	R	R	R

10.15	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 40A 3POLE	Ea	NA	R	R	R
10.16	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 60A 3POLE	Ea	NA	R	R	R
10.17	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 80A 3POLE	Ea	NA	R	R	R
10.18	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 125A 3POLE	Ea	NA	R	R	R
10.19	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 150A 3POLE	Ea	NA	R	R	R
10.20	MINIATURE CIRCUIT BREAKER. THREE PHASE. 400 VOLTS AC. 250A 3POLE	Ea	NA	R	R	R
11.0	MISCELLENIOUS					
11.1	GEYSER, ELECTRIC, WATER, SABS 151 / LATEST 150 LITRE, 230 V, 3 W HIGH PRESSURE GEYSER, TYPE 3 WORKING PRESSURE 400 KPA,HORIZONTAL OR VERTICAL INSTALLATION	Ea	NA			
11.2	THERMOSTAT. FAIL-SAFE TYPE. 250 V WITH 279 MM LONG STEM RANGE 20 TO 75 DEG. CELSIUS.	Ea	NA	R	R	R
11.3	BATTERY PRIMARY DRY CELL 1,5 VOLT ALKALINE(AAA) ONE MAKERS PART NUMBER MN2400	Ea	NA	R	R	R
11.4	BATTERY,PRIMARY DRY CELL 9 VOLT MINIATURE	Ea	NA	R	R	R
11.5	BATTERY,PRIMARY DRY CELL 1,5 VOLT ALKALINE PENLIGHT FOR TEST EQUIPMENT	Ea	NA	R	R	R

11.6	ELEMENT 3 KW FOR 230 V GEYSER 150 LITRE, LOW PRESSURE GEYSER, TYPE 3, WITH COPPER INNER CYLINDER, INLET/OUTLET CONNECTIONS TO BE 20 MM ISO/R228 MALE THREADS HORIZONTEL FLOOR MOUNTING	Ea	NA	R	R	R
11.7	ELEMENT, GEYSER. 230 VOLTS 2 KW 280 MM IMMersed LENGTH, COPPER SHEATH NICKEL PLATED, WITH THERMOSTAT POCKET BUT WITHOUT THERMOSTAT BRASS BOSS 1 1/4" BSP	Ea	NA	R	R	R
11.8	TRANSFORMER OIL	p/l	NA	R	R	R
11.9	SILICA GEL	p/kg	NA	R	R	R
11.10	110MM PVC SLEEVE	M	100% PVC	R	R	R
11.12	150L ELECTRIC WATER GEYSER	Ea	NA	R	R	R
11.13	110m PVC SLEEVE PIPE	Ea	90% PVC	R	R	R
11.14	LITHIUM ION SOLAR BATTERY 12V, 200AH	Ea	NA	R	R	R
12.	MARK-UP ON THE MATERIAL NOT ON THE LIST	%	NA	R	R	R
13.	TRAVEL RATE	R/ KM	NA	R	R	R
			SUB TOTAL	R	R	R