

| SOW - OLD WIRING & PANELS REPLACEMENT WORKS AT CGR   |  |     | JUL-2018 |
|--|--|-----|----------|
| Sl.No.   | Description of work  | Qty | Unit     |
| 1  | Supply and fix 32amps metal clad twist lock socket(Make:BCH) with 25 amps two pole control MCB(Make:Hager) for the all the air-conditioners with new piping and wiring using 4.0 sq.mm FRLS wires for phase, neutral and earth. Make: Finolex / Orbit  | 20  | circuits |
| 2  | Supply and fix 20amps metal clad twist lock socket(Make:BCH) with single phase ELCB of 10mA, 25 amps (Make: Hager) for all the water heaters, distiller, and washer with new piping and wiring using 4.0 sq.mm FRLS wires for phase, neutral and earth. Make: Finolex / Orbit  | 6   | circuits |
| 3  | Supply and fix the 32amps metal clad twist lock socket(Make: BCH) with two pole control MCB for the dryer (Make: Hager) with new piping and wiring using 4.0 sq.mm FRLS wires for phase, neutral and earth. Make: Finolex / Orbit  | 1   | circuit  |
| 4  | Chip off the walls to replace existing damaged and old wiring works with switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old conduits with wires. Supply and lay 1" PVC conduit and plaster the walls with 1:3 rich cement mortar. Re-lay the wires using 2.5 sq.mm wire phase, neutral and earth to the <b>ground sockets circuits</b> . Ground socket board should consists of two set of 5amps switch and 5amps multi-pin socket, two blanks with 8mle front plate and consealed box Make: MK India. | 95  | nos      |
| 5  | Chip off the walls to replace existing damaged and old wiring works with switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old conduits with wires. Supply and lay 1" PVC conduit and plaster the walls with 1:3 rich cement mortar. Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth to the <b>ground sockets circuits</b> . Ground socket board should consists of one set of 5amps switch and 5amps multi-pin socket, with 3 mle front plate and consealed box Make: MK India.       | 10  | Nos      |
| 6  | Chip off the walls to replace existing damaged and old wiring works in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old conduits with wires. Supply and lay 1" conduit and plaster the walls with 1:3 rich cement mortar. Relay the wires using 2.5 sq.mm FRLS wire for phase, neutral and earth to the <b>lighting and fan circuits</b> . Total no. of light and fan points: 50 nos.   | 50  | Nos.     |
| 7  | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 8 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 8mle front plate which consists of one no. of 2 mle step type fan regulator, 5 nos of 6amps switch and one no. of bell switch(Make: India).  | 6   | Nos      |
| 8  | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of one no. of 2 mle step type fan regulator, 1 nos of 6 amps switch and two nos. of blank.(Make: India).  | 1   | Nos      |
| 9  | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 3 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 3 mle front plate which consists of 2 nos of 6amps switch with one no.of blank(Make: India).   | 7   | Nos      |
| 10   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 3 mle concealed box(Make: MK India). Provide 3 mle front plate which consists of 1 no. of 6amps switch and two blanks(Make: India).   | 20  | Nos      |
| 11   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 3 mle concealed box(Make: MK India). Provide 3 mle front plate which consists of 1 no. of 6amps two way switch and two blanks(Make: India).   | 1   | No.      |
| 12   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 3 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 3 mle front plate which consists of 1 no. of 6amps switch , 1 no. of 6amps two way switch and one blank(Make: India).  | 1   | No.      |
| 13   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of one no. of 4 mledimmer, and 1 nos of 6 amps switch.(Make: India).  | 1   | No.      |
| 14   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of one no. of 6amps multipin socket, 1 nos of 6 amps switch and two nos. of blank.(Make: India).  | 3   | Nos      |
| 15   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of 2nos of 6 amps switch and three nos. of blank.(Make: India).   | 2   | Nos      |
| 16   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of one no. of 6 amps two way switch, 2 nos of 6 amps switch and two nos. of blank.(Make: India).  | 1   | No.      |
| 17   | Chip off the walls to replace existing damaged and old switch boards in the 1 <sup>st</sup> & 2 <sup>nd</sup> floor level. Remove all the old switch board. Supply and install new 5 mle concealed box(Make: MK India). Re-lay the wires using 2.5 sq.mm FRLSwire phase, neutral and earth. Provide 5 mle front plate which consists of one no. of 16 amps switch, and one nos of 16 amps multipin socket (Make: India).   | 2   | Nos      |
| 18   | Supply and install energy saving light fittings in all the bed rooms, hall bathrooms, kitchen and exterior. Total: 60 nos.   | 40  | Nos      |
| 19   | Supply and install one 5kva step down transformer in the main panel area and connect it to the 110v points in the bathrooms and kitchen using 2.5 sqmm FRLS wires for phase, neutr and earth.  | 8   | Nos.     |
| 20   | Replace the entire breaker panel boards with 7 segment panel boards with necessary breakers and accessories. Make: Hager   | 3   | Nos      |
| 21   | Label all the breakers and switch boards.  | 1   | Lot      |
| <b>Note:</b><br>1. During the finishing time of the work, check all the electrical switch boards for loose connection, earth connection and polarity. Rectify it as required.<br>2. Check the loads in each phase and balance it properly.<br>3. Clear all the debris, damaged conduits and scrap wires. |  |     |          |