

**SPECIFICATION OF INDEX**

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|---------|----------|--|------------|------------------------------|------------------------------------|--|
| 1       | 1        | Excavation for foundation in Dense or Hard soil incl. sorting out and stacking of useful materials and disposing of the excavated stuff with all lead and lift.  | I          | 22                           | 4.00.B                             | The work shall be carried out for all depth and all lead.  |
| 2       | 2        | Excavation for foundation in Hard Murrum incl. sorting out and stacking of useful materials and disposing of the excavated stuff with all lead and lift.   | I          | 22<br>25                     | 4.00.C<br>4.00.1 C                 | The work shall be carried out for all depth and all lead.  |
| 3       | 3        | Excavation for foundation in Soft Rock not requiring blasting incl. sorting out and stacking of useful materials and disposing of the excavated stuff up to all lead and lift.                                     | I          | 25                           | 4.00.1 D                           | The work shall be carried out for all depth and all lead.  |
| 4       | 4        | Providing and laying cement concrete 1:2:4 (1- Cement : 2- Coarse sand : 4- graded stone aggregates 20 mm nominal size) and curing complete excluding cost of formwork in Foundation and Plinth.                   | I          | 32                           | 5.3.13                             | The work shall be carried out for all depth and all lead.  |
| 5       | 5        | Pro. & laying controlled cement concrete M-250 and curing complete inclu. the cost of form work and foundation, footings, base of column and mass concrete.  | I          | 40<br>55                     | 5.8.3 (A)<br>9.1 A (I)             | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 6       | 6        | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Column FOR all Floor.                 | I          | 37<br>40<br>56               | 5.4.13<br>5.8.3 (D)<br>9.1 G (I)   | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 7       | 7        | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Plinth Beam .                         | I          | 40<br>56                     | 5.8.3 (C)<br>9.1. H (I)            | The payment shall be made for completed item on Cum.   |
| 8       | 8        | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Beam for all floor.                   | I          | 40<br>56<br>37               | 5.8.3( C)<br>9.1. H (I)<br>5.4.13  | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 9       | 9        | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Slab for any thickness for all Floor. | I          | 40<br>56<br>37               | 5.8.3( C)<br>9.1. B (I)<br>5.4.13  | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 10      | 10       | Providing and laying controlled cement concrete M.250 and curing complete excluding the cost of formwork and reinforcement for reinforced concrete work in GRADE Slab  | I          | 40                           | 5.8.3( C)                          |  |
| 11      | 11       | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Stair Case for all floor.             | I          | 39<br>57<br>37               | 5.8.2 E<br>9.1. M<br>5.4.13        | Work carried out in M-250 Grade instead of M-200.The payment shall be made for completed item on Cum. Basis for all floor. |

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| 12      | 12       | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in Lintel for all Floor.      | I          | 40<br>57<br>37                | 5.8.3(C)<br>9.1. (M)<br>5.4.13     | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 13      | 13       | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work for chhajja for all floors.   | I          | 40<br>57<br>37                | 5.8.3(C)<br>9.1. (I)<br>5.4.13     | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 14      | 14       | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work for Fins for all floors.      | I          | 40<br>56<br>37                | 5.8.3 C<br>9.1. C<br>5.4.13        | The payment shall be made for completed item on Cum. Basis for all floor.  |
| 15      | 15       | Providing and laying Controlled cement concrete M 250 and curing complete including the cost of formwork and excluding cost of reinforcement for reinforced concrete work in wall caps/ coping.         | I          | 30<br>56<br>37                | 5.3.14A<br>9.1. H (i)<br>5.4.13    | Work carried out in M-250 Grade instead of M-100.The payment shall be made for completed item on Cum. Basis for all floor. |
| 16      | 16       | Providing and laying cement concrete 1:4:8 (1-cement : 4-Sand : 8-Crust stone aggregate 40mm nominal size) & curing complete excluding cost of formwork in foundation and plinth.                       | I          | 30                            | 5.3.3 A                            |  |
| 17      | 17       | Providing Thermo Mechanical treated bar FE-500D Steel Reinforcement for R.C.C. work including bending, binding and placing in Position complete for all floor.  | II         | --- As per attached sheet --- |                                    |  |
| 18      | 18       | Filling available excavated earth (excluding rock) in trenches. plinth, sides of foundations etc. in layers not exceeding 20cm. in depth consolidating each disposed layer by ramming and watering.     | I          | 27                            | 4.12                               |  |
| 19      | 19       | Filling in foundation and plinth with murrum or selected soil in layers of 20cm. thickness including watering, ramming and consolidating etc. completed.  | I          | 28                            | 4.004                              |  |
| 20      | 20       | Filling in plinth with sand under floors including watering ramming, consolidating and dressing etc. Complete   | I          | 28                            | 4.24                               |  |
| 21      | 21       | Carrying out plinth treatment to post construction / existing structure by spraying chemical solution for termite control treatment including labour and material consistment with I.S.I specification. | I          | 137<br>138<br>139             | 22.00.7<br>22.00.8<br>22.00.9      |  |
| 22      | 22       | Brickwork using common burnt Clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in foundation and plinth in Cement Mortar 1:5. (1- Cement : 5 - fine sand).                      | I          | 43                            | 6.12 (B)                           |  |

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| 23      | 23       | Brickwork using common burnt Clay building bricks having crushing strength not less than 35 kg./Sq.Cm. in super structure in Cement Mortar 1:5. (1- Cement : 5 -fine sand) for all floor.   | I          | 46<br>46                     | 6.19 (B)<br>6.20                   | The work shall be carried out for all floors.   |
| 24      | 24       | Half brick masonry in common brunt clay building bricks having crushing strength not less than 35 Kg/Sq.Cm. in Cement mortar 1:4 ( 1- Cement : 4 -coarse sand ) in Super structure for all floor.   | I          | 47<br>48                     | 6.30. I (B)<br>6.33 (B)            | The work shall be carried out for all floors.   |
| 25      | 25       | Providing and laying 25mm polished kota stone slab flooring over 20mm (Average) thick base of cement mortar 1':6 (1-cement:6-coarse sand) or L.M. 1:1.5 laid over and jointed with grey cement slurry including rubbing and polishing etc comp.   | I          | 85                           | 14.29                              |   |
| 26      | 26       | Providing and laying 600 x 1200 mm double charge Vitrified tiles 10mm thick tiles flooring over 20mm (Average) base of Cement Mortar 1:6 (1-Cement : 6 Coarse Sand) on new surface and jointed finished with 3mm Horizontal grooves filed with coloured epoxy grouting cleaning the surface etc. complete using colour & shade to be approved by Architect. | I          | 90                           | 14.94                              | The work shall be carried out with Double charge vitrified tiles 10mm thick instead of vitrified tiles as directed. |
| 27      | 27       | Providing and laying 600 x 1200 mm double charge Vitrified tiles 10mm thick tiles for skirting over 20mm (Average) base of Cement Mortar 1:6 (1-Cement : 6 Coarse Sand) on new surface and finished with 3mm Horizontal grooves filed with coloured epoxy grouting & cleaning the surface etc. complete using colour & shade to be approved by Architect.   | I          | 89                           | 14.92                              | The work shall be carried out with Double charge vitrified tiles 10mm thick instead of ceramic tiles as directed.   |
| 28      | 28       | Providing and laying 300 x 600mm Glazed ceramic wall tiles with digital prints with matt/glassy finished with 3mm Horizontal grooves filed with coloured epoxy grouting 8mm thick in skirting and dedo on a bed of 10mm thick cement mortar 1:3 (1-cement : 3-coarse sand ) colours, shade and design to be approved by EIC.                                | I          | 89                           | 14.32                              | The work shall be carried out in 300 x 600mm 10mm thick mett finished instead of ceramic tiles                      |
| 29      | 29       | Providing and laying 600 x 600 mm Matt Porcelain Tiles 10mm thick tiles flooring over 20mm (Average) base of Cement Mortar 1:6 (1-Cement : 6 Coarse Sand) on new surface and jointed finished with 3mm Horizontal grooves filed with coloured epoxy grouting cleaning the surface etc. complete using colour & shade to be approved by Architect.           | I          | 85                           | 14.29                              | The work shall be carried out in 600 x 600mm 10mm thick mett finished instead of ceramic tiles                      |
| 30      | 30       | Providing and laying 600 x 600 mm MATT finish GVT tiles 10mm thick tiles flooring over 20mm (Average) base of Cement Mortar 1:6 (1-Cement : 6 Coarse Sand) on new surface and jointed finished with 3mm Horizontal grooves filed with coloured epoxy grouting cleaning the surface etc. complete using colour & shade to be approved by Architect.          | I          | 85                           | 14.29                              | The work shall be carried out in 600 x 600mm 10mm thick mett finished GVT tiles instead of ceramic tiles            |

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| 31      | 31       | Providing and laying white glazed tiles 6mm thick in flooring treads of steps and landing laid on a bed of 12mm thick cement mortar 1:3 (1-cement: 3-coarse sand) finished with flush pointing in white cement.  | I          | 85                            | 14.29                              |   |
| 32      | 32       | Providing and laying white glazed tiles 6mm thick in skirting, risers of steps and dedo on a bed of 10mm thick cement plaster 1:3 (1-cement: 3-coarse sand) and jointed with white cement slurry)  | I          | 85                            | 14.32                              |   |
| 33      | 33       | Providing and fixing 18mm thick black granite stone in Jambs & sills for window over 10mm (Average) thick base of cement mortar 1:3 (1-cement : 3-coarse sand) laid over and jointed with grey cement slurry including rubbing and polishing etc. complete.  | I          | 86                            | 14.36 A                            | The work shall be carried out in 18mm thick granite i/o marble in single piece as per the width of jams / sills including moulding the edges. |
| 34      | 34       | Providing & laying both side POLISHED KOTAH STONE SHELVES to C.B. with making the grooves in the walls and fixing the kotah stone finishing the same with cement mortar 1:2 etc. complete.   | I          | 85                            | 14.29                              | The work shall be carried out in 25 to 40mm thick mirror polished kotah stone shelves in single piece as per width of stair case .            |
| 35      | 35       | Providing and fixing sandwich type platform of 75cm wide and 75cm high from finished floor level using 25mm thick kotah stone slab as a base and 18mm thick mirror polished full round edged granite slab on top , 25mm thick mirror polished /kotah stone supports of 75cm wide at 45cm C/C or as directed including providing /Granite side 'Patta' of 30cm wide on three sides of the platform and S.S. Kitchen Sink of size 610x460x200mm of Nirali or equilant brand as per detailed drawing and as directed. | II         | --- As per attached sheet --- |                                    |   |
| 36      | 36       | Providing and fixing sandwich type platform of 75cm wide and 75cm high from finished floor level using 25mm thick kotah stone slab as a base and 18mm thick mirror polished full round edged granite slab on top, 25mm thick morror polished /kotah stone supports of 75cm wide at 45cm C/C or as directed including providing / Granite side 'Patta' of 30cm wide on three sides of the platform as per detailed drawing and as directed.   | II         | --- As per attached sheet --- |                                    |   |
| 37      | 37       | Providing and laying 50mm thick cement concrete flooring 1:2:4 (1-cement : 2-coarse sand : 4-graded stone aggregate 20mm nominal size) laid in one layer and finished with a floating coat of neat cement.   | I          | 88                            | 14.71 (B)                          |   |
| 38      | 38       | Providing and mixing water proofing materials in cement mortar in proportion recommended by the manufacturer.  | I          | 106                           | 17.70                              |   |

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| 39      | 39       | Providing and laying broken China Mosaic Flooring for Terrace using 12mm to 20mm broken pieces of glazed tiles to be laid over cement mortar 1:3 to plain or slope and to be tempered to bring mortar crême out upto surface using white cement including rounding off junctions and extending them up to 15cm. along the wall, clearing with water and oxalic acid etc. as directed.   | II         | --- As per attached sheet --- |                                    |         |
| 40      | 40       | Providing and fixing 35mm thick flush door of standard quality with both side laminated including all heavy type S.S. fixture & fastenings with mortise lock etc complete.  | II         | --- As per attached sheet --- |                                    |         |
| 41      | 41       | Providing and fixing decorative T.W. Door 30mm thick with existing granite or Marble Frame with style of size 100x30mm bottom rail 100x30mm lock rail 150x30mm of top rail of 150x30mm size with partly 12mm thick water proof plywood and 1mm thick lamination to both side including 20mmx20mm teak wood and top panel with 2mm dia S.S. hollow pipe as safety bar and PVC mosquito net with Velcro fitting including heavy type S.S. fixtures and fastening including French polishing etc complete  | II         | --- As per attached sheet --- |                                    |         |
| 42      | 42       | Providing and fixing FRP of 28mm thick Fibre Glass shutter with 1.5 to 2.0 mm thick fire retardent grade FRP skin in depressed panel design having extra reinforcement on sides & edges & in Gel coat finish. The core of the shutter is to be filled up with injected retardent grade polyurethane foam done in situ alongwith embedded wooden pieces for stiffening & also taking hinges & finitues. The whole FRP frame & shutter is to be water proof ,weather proof, termite proof & resistance to mild acid/alkali. Rates are to be inclusive of S.S hinges with necessary screws & alluminium S.S fixtures & fastenings & fastener sleeve. | I          | 70                            | 10.120 (49)                        |         |
| 43      | 43       | Providing and fixing colour anodized aluminum sliding Four track window having frame bottom section size 124mm x 51mm Of Jindal Section 21203 & side and top section size 124 x 41mm of Jindal section 20837 including shutter frame size 71 x 30mm of Jindal section 20993 with sliding type three shutters with 5mm thick transparent tinted float glass and one shutter for mosquito net of wire gauge including rubber beading PVC virgin, heavy type handle, bearing, fixture and fastening etc. including all labour and material etc. complete.  | II         | --- As per attached sheet --- |                                    |         |

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| 44      | 44       | Providing and fixing colour anodized aluminium sliding three track window having frame bottom section size 124mm x 51mm Of Jindal Section 21203 & side and top section size 124 x 41mm of Jindal section 20837 including shutter frame size 71 x 30mm of Jindal section 20993 with sliding type three shutters with 5mm thick transparent tinted float glass and one shutter for mosquito net of wire gauge including rubber beading PVC virgin, heavy type handle, bearing, fixture and fastening etc. including all labour and material etc. complete. | II         | --- As per attached sheet ---   |   |   |
| 45      | 45       | Providing & fixing coloured anodized aluminium sectional louvered ventilator with frame size 63x38.10mm & 1.80mm thick ground glass and coloured anodized aluminium louvers fixtures and hold fasting etc. complete.   | II         | --- As per attached sheet ---   |   |   |
| 46      | 46       | Structural steel work ( Confirming to IS 4923-1997) riveted, bolted or welded in builtup for all type sections, in framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete as per the structural designs and directions of Engineer in charge.Column ( 122 x 61 x 3.6mm )   | I          | 75                              | 11.4 (D)  |   |
| 47      | 47       | Providing and fixing Colour coated corrugated /semi corrugated Galvalume sheet 0.50 mm thick roofing fixed with GI "J" or "L" hooks bolts and nates 8mm dia with bitumen washer filled with white lead complete excluding cost of purlins, rafters and trusses as directed.  | II         | --- As per attached sheet ---   |   |   |
| 48      | 48       | Providing 15mm thick cement plaster in single coat on Rough (Similar)side of single or half brick walls for interior plastering upto floor two level and finished even and smooth in Cement mortar 1:4 (1-cement :4-sand) for all floor.   | I          | 105<br>107                      | 17.58 II<br>17.94 (I)                                 | The work shall be carried out for 15mm thick mala plaster insted of 10mm thick for all floor.   |
| 49      | 49       | Providing 20mm thick water proof cement plaster for sunk in single coat on brick concrete wall for interior plastering upto floor two level finished even and smooth (ii) Cement Mortar 1:3 (1-Cement:3-sand) and mixing water proofing materials of approved brand and manufacture in cement mortar in proportion recommended by the manufacturer for all floors.   | I          | 106<br>106<br>107<br>107<br>106 | 17.61 (i)<br>17.69<br>17.94 (i)<br>17.94 III<br>17.70 | The work shall be carried out with floating coat of neat cement slurry , waterproofing compound & rate shall be paid forcomp. item on Sqmt. Basis for all floors. |
| 50      | 50       | Filling in foundation and plinth with brick Bats. Chhara in layers of 20cm. thickness including watering, remming and consolidating etc. completed.  | I          | 28                              | 4.00.5<br>4.00.4                                      | The work shall be carried out for all floors in sunk.   |
| 51      | 51       | Providing 10mm thick cement plaster in single coat on ceiling and soffits of stair cases for interior plastering upto floor two level and finished even and smooth in Cement mortar 1:3 (1-cement:3-sand) For all floor.   | I          | 104<br>107                      | 17.58 (i)<br>17.94 (i)                                |   |

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| 52      | 52       | 20mm thick sand faced cement plaster on walls for all height above ground level consisting of 12mm thick backing coat of C.M. 1:3 (1-cement : 3-sand) and 8mm thick finishing coat of C.M. 1:1 (1-cement : 1-sand) etc. complete.  | I          | 107                           | 17.95                              | The work shall be carried out for all height above G. L.  |
| 53      | 53       | Applying Two Coats of Birla or Asian Acrylic Lappy (Putty) and two coats of primer of approved brand and manufacture on New Wall Surface to give an even shade including thoroughly brushing the surface free from mortar dropping and other foreign matter and sand papered smooth.   | II         | --- As per attached sheet --- |                                    |   |
| 54      | 54       | Wall painting (two coats) with plastic emulsion paint of approved brand and manufacture on undecorated wall surface to give an even shade including throughly brushing the surface free from mortar droppings and other foreign matter and sand papered smooth.  | I          | 120                           | 18.57                              |   |
| 55      | 55       | Finishing Wall with Weather Proof Exterior Emulsion Paint on Wall Surface (Two Coats) to give an required shape even shade after thoroghly brushing the surface to remove all dirt, and remains of loose powdered materials etc. complete  | I          | 119                           | 18.51                              | The work shall be carried out with weather proof exterior emulsion paint apex or equivalent including priming coat i/o W.P. cement paint. |
| 56      | 56       | Providing and fixing 90 cm high Stainless steel railing made from anticorrosive 316 grade S S pipe of 50 mm dia (16Gauge) as hand rail with S S 316 grade Baluster of 38 mm dia (16Gauge) as a vertical support fixed in RCC slab at 1.2m c/c including three horizontal S S pipes of 25 mm dia (16Gauge) at eqal distance fixed by 18.75 mm dia (16Gauge) S S pipe with baluster including accessories as per detailed drawing as directed etc. complete. | II         | --- As per attached sheet --- |                                    |   |
| 57      | 57       | Providing and fixing stainless steel SS 316 type railing at 850mm height and of 50mm dia SS pipe with wall support at 1.5mt center to center pipe as 15mm dia at required spacing as per design and SS having 316 grade and 15 guage pipe including fastening, hold fast, clumps, coach bolts for fixing to wall including touching finishing to wall etc complete.  | II         | --- As per attached sheet --- |                                    |   |
| 58      | 58       | Providing and fixing frame type CB shutter of 18mm thick water proof plywood with 1.00mm ISI quality 1.0mm lamination for outside of frame and cupboard and 0.80mm thick lamination to inside of cupboard including necessary , hydraulic type S.S. hinges , fixtures , fastenings of standard quality S.S. with locking arrangement etc complete as per detail drawing and as directed by Engineer-in-charge.   | II         | --- As per attached sheet --- |                                    |   |

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| 59      | 59       | Providing and fixing cupboard with aluminum pipe frame of size 50x25mm filled with non-teak wood and 18mm thick water proof plywood shutter with 6 nos of SS basket two of size 18" x 20" x 4" , two of size 18"x 20" x 6" and two of size 18" x 20" x 8" with necessary intranal arrangement front plywood necessary telescopic channels for drawers and remaining part of two shutter including 1.00mm thick laminated sheet for outer face and 0.8mm sheet for inner face and with 20x20cm teak wood beading including necessary S.S. hinges and S.S. fixtures etc complete. | II         | ---                          | As per attached sheet ---          |   |
| 60      | 60       | Providing and fixing box type cupboard for wardrobe including frame work with 19mm thick water proof plywood rear side with 8mm thick water proof plywood and shutter with 19mm plywood with necessary drawers of same materials with 1.00mm thick lamination sheet for outside and 0.80mm thick laminated sheet for inside work. including cost of all heavy type stainless steel fittings, sliding channels , locking arrangements for shutter and drawers including teak wood beading etc complete as per design and drawings.   | II         | ---                          | As per attached sheet ---          |   |
| 61      | 61       | Providing and fixing 5mm thick glass mirror machine cut belveled edge mounted on wall with special type wall touch SS mirror bracket fixing with necessary plugs.   | II         | ---                          | As per attached sheet ---          |   |
| 62      | 62       | Providing and fixing wash down water closet (European type Wall hung) Jaquar Vignette wall hung size of 615 x 400 x 363mm with Hydraulic seat cover with inlet & outlet gasket, CI chair brackets including concealed type Metropole flush valve 40mm concealed body 100mm square plate of Jaquar or equivalent quality with Health flow set etc. complete.   | II         | ---                          | As per attached sheet ---          |   |
| 63      | 63       | Providing and fixing water closet closet squatting pan (Indian type W.C.pan / Orrissa pan) size 580mm including Foot rest G.I. inlet connection & C.P. Brass Flush cock of 25mm dia. etc. comp.   | II         | ---                          | As per attached sheet ---          |   |
| 64      | 64       | Providing and fixing special type wash basin on counter top of size 610x460mm of CERA or equivalent quality including pillar tap, Stop cock etc. complete.  | II         | ---                          | As per attached sheet ---          |   |
| 65      | 65       | Providing erecting and fixing Tripal layer ISI water tank of required capacity each with all necessary fittings , tank cover and as required connection etc. complete on terrace  | II         | ---                          | As per attached sheet ---          |   |
| 66      | 66       | Providing and fixing Jaguar or equivalent regular body stop cock 15mm dia   | I          | 151                          | 23.96 (A)                          | The work shall be carried out in jaguar or equivalent brand as per EIC. |



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| 67      | 67       | Providing and fixing Heavy type lang body bib tap of Jaguar or Equivalent quality of 15mm dia etc complete.   | I          | 150                           | 23.92 (A)(I)                       | The work shall be carried out in jaguar or equivalent brand as per EIC.   |
| 68      | 68       | Providing and fixing Jaquar single lever high flow diverter with concealed body and expose parts kit of alive or equivalent model and bath tube spout with button attachment for hand shower and shower arm 400 x 25 x 25mm square shape for wall mounted and hand shower for ABS plats with flexible tube 8mm dia and 1.5Mt long with nuts and wall outlet with shower hook and over head shower 200x300mm stainless steel with rubbit system complete as directed by EIC. | II         | --- As per attached sheet --- |                                    |   |
| 69      | 69       | Providing and fixing Stainless steel Heavy Type Brass Towel Rack 600mm considering & 12mm dia rod and one 20mm dia rod including 3 to 4 pegs including C.P. Brass Brackets etc complete   | II         | --- As per attached sheet --- |                                    |   |
| 70      | 70       | Providing and fixing Stainless steel Heavy Type Napkin Ring etc complete  | II         | --- As per attached sheet --- |                                    |   |
| 71      | 71       | Providing and fixing to wall, ceiling and floor galvanized mild steel tubes (Medium grade) of the 50mm nominal bore, tube fittings and clamps including making good the wall, ceiling and floor.  | I          | 142                           | 23.2 (F)                           |   |
| 72      | 72       | Providing and fixing concealed center point to wall ceiling & floor CPVC (SDR 13.5) PIPE having National Sanitation Foundation (NSF) seal for potable water of 15mm dia. nominal bore tube fittings and clamps including making good the wall, ceiling and floor etc. complete.   | I          | 144                           | 23.8.A                             | The work shall be carried out for CPVC (SDR 13.5) 15mm dia pipe with heavy type fittings instead of PVC pipe.                   |
| 73      | 73       | Providing laying and jointing in true line and level 15mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.   | I          | 154                           | 23.8.A                             | The work shall be carried out with UPVC 15mm dia pipe with SCH-80 of JAIN/PRINCE /SUPREM/ASTRAL/ FINOLEX or equivalent quality. |
| 74      | 74       | Providing laying and jointing in true line and level 25mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.   | I          | 154                           | 23.8.B                             | The work shall be carried out with UPVC pipe with SCH-80 of JAIN/PRINCE /SUPREM/ASTRAL/ FINOLEX or equivalent quality.          |

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| 75      | 75       | Providing laying and jointing in true line and level 40mm dia. U.P.V.C. Pipe ( SCH- 40) for cold water including fittings as approved by Engineer In Charge. Pipe shall be fixed on the wall with the help of clamp at every two metre C/C or shall be concealed as directed including necessary fittings etc. including testing of pipe and joints and fixing the same with adhesive solvent, including cost of all materials.  | I          | 154                           | 23.8.D                             | The work shall be carried out with UPVC pipe with SCH-80 of JAIN/PRINCE /SUPREM/ASTRAL/ FINOLEX or equivalent quality. |
| 76      | 76       | Providing and fixing PVC pipe of 6 Kg / F / Sq.M. Water pressure polythene pipe of 90mm inside dia. high density complete including fixing by clamps to wall including making good the wall ceiling and floor etc. comp.   | I          | 144                           | 23.8 E                             | The work shall be carried out with PVC pipe 75mm dia instead of 50mm dia polythene pipe.                               |
| 77      | 77       | Providing, laying and jointing in true line and level 110mm dia U.P.V.C. SWR Type B-Pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering & fitting conforming to IS : 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160mm diameter x 210mm length x 196mm high at every 2000mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pies and joints and jointed with adhesive solvent cement including cost of all materials. | I          | 144                           | 23.80 E                            | The work shall be carried out for 110mm dia UPVC (S.W.R.)pipe Type-B with ISI quality.                                 |
| 78      | 78       | Providing, laying and jointing in true line and level 160mm dia U.P.V.C. SWR Type B-Pipe conforming to IS 13592-1992 with one end plain and other end socketed with rubbering & fitting conforming to IS : 14735-1999 of approved make for drainage system pipe line, pipe shall be jointed with each other with rubber lubricant, pipe shall be fixed on wall using of PVC clamp of the size 160mm diameter x 210mm length x 196mm high at every 2000mm center to center or shall be concealed in walls as directed including necessary fittings such as bends, shoes etc. including testing of pies and joints and jointed with adhesive solvent cement including cost of all materials. | I          | 144                           | 23.80 E                            | The work shall be carried out for 160mm dia UPVC (S.W.R.)pipe Type-B with ISI quality.                                 |
| 79      | 79       | Providing and fixing 25mm dia Gun metal check or non-return fully way wheel valve.   | I          | 152                           | 23.99.B                            | The work shall be carried out for 50mm dia instead of 25mm dia.  |
| 80      | 80       | Providing and fixing 40mm dia Gun metal check or non-return fully way wheel valve.   | I          | 152                           | 23.99.E                            | The work shall be carried out for 50mm dia instead of 40mm dia.  |
| 81      | 81       | Providing and fixing 50mm dia Gun metal check or non-return fully way wheel valve.   | I          | 152                           | 23.99.E                            |  |
| 82      | 82       | Supplying and fixing standard quality (Kranti or equivalent) 50mm dia water meter with flange, nut bolt etc. complete.   | II         | --- As per attached sheet --- |                                    |  |

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| 83      | 83       | Providing and fixing PVC SWR Nahni Trap IS 14735 for drain with jali of the 75mm nominal diameter of self cleansing design with C.I. Scrwed down or hinged grating including the cost of cutting and making good the walls.   | I          | 146                           | 23.87                              | The work shall be carried out with PVC SWR Nahni Trap As per IS 14735 instead of CI Nahni Trap. |
| 84      | 84       | Providing and fixing S.W. gully trap with C.I. grating brick masonry chamber and water tight C.I. cover with frame of 300mm x 300mm size (inside) with standard weight wtih Square mouth traps size of 100mm x 100mm size P type  | I          | 156                           | 24.19 (A)                          |   |
| 85      | 85       | Constructing brick masonry chamber for underground C.I. Inspection chamber and bends with briocks having croshing strength not less than 35Kg. Cm2 in C.M. 1:5 C.I. cover with frame (Light duty) 455mm x 610mm intenal dimensions total weight of cover with frame to be not less than 38Kg. (Wt. of cover 23 Kg.) and Wt. of frame 15Kg. ) (R.C.C. top slabe with 1:2:4 mix (1-cement :2- coarse sand :4-graded stone aggregate 20mm size) foundation concrete 1:5:10 inside plaster 15mm thick with cement mortar 1:3 finished smooth with a floating coat of neat cement on walls and bed concrete etc. complete with Inside dimensions 455mmx 610mm and required depth for single pipe line. | I          | 163<br>163                    | 24.44(I)<br>24.46 (I)              | The work shall be carried out for required depth and as per instruction given by EIC.           |
| 86      | 86       | Providing and fixing Pre-Cast Rubber Dye Inter locking concrete Block 60mm thick with grade of concrete M-200 pnumatic compressed by mechanically pressed and as per approved design including 75mm sand layer for levelling and filling the joint with sand in proper line and level.  | II         | --- As per attached sheet --- |                                    |   |
| 87      | 87       | Providing and fixing Pre-Cast Concrete Kerb Stone of gray cement based concrete block 30cm. length, 30cm. height and 15cm. thick of M-250 Grade concrete as per approved design and including excavation for fixing in proper line and level, filling the joint with C.M. 1:3 (1-Cement : 3-Fine Sand) etc. complete  | II         | --- As per attached sheet --- |                                    |   |
| 88      | 88       | Providing and constructing and junction chamber of size 0.45x0.45x0.45 mt. including necessary excavating 23 Cum. brickwall, beding CC 1:2:4, top RCC slab, 15mm thick plaster and connection of rain water pipes as per detail drawings and as directed by engineer – in – charge.   | II         | --- As per attached sheet --- |                                    |   |
| 89      | 89       | Providing filter chamber of brick work in C.M. 1:5 of size 2.06mt X 1.21 mt x 1.20mt and excavation dimension of 2.66x1.81x1.35mt including C.C. 1:2:4 bed concrete of 0.15mt thick including brick work in C.M. 1:5 for 23cm thick wall including 15mm thick cement plaster inside and out side and 10 cm thick RCC 1:2:4 top over with CRS steel and manhole cover with frame of minimum weight of 35 Kg and filling filter material Kapchi and sand as per detailed Drawing.   | II         | --- As per attached sheet --- |                                    |   |

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| 90      | 90       | Providing recharging pit of size 1.20mt dia and 1.20mt Depth of water logging with excavation filling the pit with brick bats & sand in layer including macking 300mm dia bore depth of 4.5mt & filling bricks bats as per drawing as directed.   | II         | ---                          | As per attached sheet ---          |         |
| 91      | 91       | Providing and fixing Sign board on Alluminium Composite Panel 4 mm thick and letter with sticker sheet including fixing etc complete.   | II         | ---                          | As per attached sheet ---          |         |
| 92      | 92       | Providing and fixing special type clamping system made out from C patti, Z patti, L Clamp, U clamp with Nut/ Bolt and washer as suitable arrangement for water supply and plumbing system like Drainage Line, Rain Water line and supply line for Hot and Cold water etc line fitting from GF to 2nd Floor required as per site condition for fixing etc complete. (A) 15 to 40mm dia Pipe  | II         | ---                          | As per attached sheet ---          |         |
| 93      | 93       | Providing and fixing special type clamping system made out from C patti, Z patti, L Clamp, U clamp with Nut/ Bolt and washer as suitable arrangement for water supply and plumbing system like Drainage Line, Rain Water line and supply line for Hot and Cold water etc line fitting from GF to 2nd Floor required as per site condition for fixing etc complete. (B) 50 to 65mm dia pipe  | II         | ---                          | As per attached sheet ---          |         |
| 94      | 94       | Providing and fixing special type clamping system made out from C patti, Z patti, L Clamp, U clamp with Nut/ Bolt and washer as suitable arrangement for water supply and plumbing system like Drainage Line, Rain Water line and supply line for Hot and Cold water etc line fitting from GF to 2nd Floor required as per site condition for fixing etc complete. (C) 75 to 110mm dia pipe | II         | ---                          | As per attached sheet ---          |         |
| 95      | 95       | Construction of Septic Tank of size 3.50 x 2.00 x 1.80 including excavation, BBCC, RCC, Reinforcement, Brick Masonry, finished by 15mm plaster in cement mortar (1:3) etc complete as per drawing.  | II         | ---                          | As per attached sheet ---          |         |
| 96      | 96       | Drilling of 215mm dia bore hole in overburden strata (alternative layer of lime stone and yellow stridly formation) by DTH regi. up to required depth including fixing of 175/180 dia ERW/PVC pipe if required drilling by 165mm dia bore hole in hard rock strata DTH drilling method up to all depth.   | II         | ---                          | As per attached sheet ---          |         |
| 97      | 97       | Providing and Fixing Curtain make with 100% poly fil fabric of 85 GSM ( $\pm$ 0.05) thickness selected by architect & stitching and fixing with required size of Channels arrangement and required nos of S.S. finished support of approved shape & quality inclusive of all necessary fixtures, fasteners and fitting, material & all labour charges etc. complete or as directed by EIC.  | II         | ---                          | As per attached sheet ---          |         |

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| 98      | 98       | Providing and Fixing Wooden VIP T.V. Unit with using 19mm thick W.P. plywood in sandwiched pattern to make the edges of the unit to be 37mm thick with 1.0mm thick imported decorative laminate & as per design veneer cladding with groove pattern with as required width platform 50mm thick made of ply and finished with 1mm thick full core white laminate and as required drawers made by 19mm thick W.P. plywood telescopic channels with other necessary fixtures and fastening incl. of melamine polishing work etc. complete with necessary electric point and cable arrangements as per drawing /photos and instruction of engineer-in charge.   | II         | ---                          | As per attached sheet ---          |         |
| 99      | 99       | Providing and Supplying Wooden King Size Double Bed of size 1.96 x 1.80 x 0.35 mtr height with using teak wood size in outer framing and internal framing with 19mm thick W.P. plywood & both side of 1mm thick laminate on top and back side Head board panelling with done by veneer finish dark polishing with groove design as per drawing or EIC. Fixing in Back side wall with necessary fixtures and fastening inclusive of melamine polishing work inclusive of two nos of side box of required size with 1 nos of drawer in each box with telescopic channel with necessary fixtures etc. complete or as directed as per drawing and as per instruction of architect and engineer in charge. | II         | ---                          | As per attached sheet ---          |         |
| 100     | 100      | Providing and Supplying Mattress of 150mm thickness of size 1.96 x 1.80mt made of Kurlon primary construction with bonnell spring core with anti corrosive and high carbon wire finished with super soft HR form top most layer with 100 GSM cotton felt layer on top covered with premium knitted fabric with edge support system with reinforce spring support and foam encasing to avoid sagging and edge roll off of branded manufacturer etc. complete or as directed with Bombay Dyeing double Bed Sheet 1 No, Reliance Recon pillow of size 24" x 16" 2 nos with pillow cover, double bed Blanket with cotton cover and bed runner of Polyester & Polyester Blend etc. complete.               | II         | ---                          | As per attached sheet ---          |         |
| 101     | 101      | Pro. And fixing Nylon Pigeon net by fixing with SS hook in Balcony, OTS, Stair etc.   | II         | ---                          | As per attached sheet ---          |         |

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| 102     | 102      | Pro. And fixing single layer water proof gypsum board 12.5 mm thick sections using water proof board of size 1220 mm x 1830 mm x 8.0 mm suspended by GI suspender channel of size 25 mm x 3 mm with intermediate channel of size 18 mm x 40 mm x 0.8 mm at 1220 mm center to center ceiling section of size 40 mm x 35 mm x 0.55 mm at 457 mm c/c and perimeter channel A of size 20 mm x 27 mm x 30 mm x 0.5 mm at edges & drops incl. paper tap sand soffit cleat, anchor fastener, screw bolt connecting cleat, joining compound top coat on ceiling incl. making necessary opening for light fitting, diffuser etc. comp. as per detail drawing as directed   | II         | ---                          | As per attached sheet ---          |         |
| 103     | 103      | Making Any Size of hole or as required on site in RCC beam with core cutting for passing of drainage pipe.  | II         | ---                          | As per attached sheet ---          |         |
| 104     | 104      | Providing and supplying premium quality 3 seater Sofas size of 1610 x 780 x 810mm made out frame constructed with teakwood frame and 19mm thick premium commercial plywood structure. Seat & back & arm rest shall be finished by required thickness high density foam (density not less than 45) this should be again covered with 30kg/sqm density 14mm thick HR foam with Madarpat cover on it and upholstered fabric of suggested shade and finish on seat, back and all visible side as per drawing. Sofas shall be complete with all lining material like fevicol, nails etc. with labour & providing and fixing of leatherite/ tapestry. Legs shall be out of wooden. Fixing of system by machine stitches and spray gluing system. Leatherite/ Tapestry shall be as per approved colour/ shade/ texture by the Engineer in charge. Sofa shall be finished with melamine polish and completed as per Design detail drawings and/or given by the Engineer -in charge. | II         | ---                          | As per attached sheet ---          |         |

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| 105     | 105      | Providing and supplying premium quality 2 seater Sofas size of 1100x780x810mm made out frame constructed with teakwood frame and 19mm thick premium commercial plywood structure. Seat & back & arm rest shall be finished by required thickness high density foam (density not less than 45) this should be again covered with 30kg/sqm density 14mm thick HR foam with Madarpal cover on it and up holstered fabric of suggested shade and finish on seat, back and all visible side as per drawing. Sofas shall be complete with all lining material like fevicol, nails etc. with labour & providing and fixing of leatherite/ tapestry. Legs shall be out of wooden. Fixing of system by machine stitches and spray gluing system. Leatherite/ Tapestry shall be as per approved colour/ shade/ texture by the Engineer in charge. Sofa shall be finished with melamine polish and completed as per Design detail drawings and/or given by the Engineer -in charge. | II         | ---                          | As per attached sheet ---          |         |
| 106     | 106      | Providing and Arranging Rectangle Center table made from 1180mm x 600mm x 419mm C.P. teakwood leg and 19mm thick plywood structure and finished with 1mm thick laminate & top part of table covered with 18mm thick Granite top with edge finish All exposed sedges shall be covered with 8mm thick teak wood beading patti & exposed wooden & veneer faces to be finished with matt finish melamine polish & non visible faces & edges shall be painted with enamel paint of matching shade of other finished surfaces including all materials and labours etc. complete as per drawing and instruction of engineer-in charge.  | II         | ---                          | As per attached sheet ---          |         |
| 107     | 107      | Providing and Arranging Cornor table made from 900mm x 900mm x 419mm C.P. teakwood leg and 19mm thick plywood structure and finished with 1mm thick laminate & top part of table covered with 18mm thick Granite top with edge finish All exposed sedges shall be covered with 8mm thick teak wood beading patti & exposed wooden & veneer faces to be finished with matt finish melamine polish & non visible faces & edges shall be painted with enamel paint of matching shade of other finished surfaces including all materials and labours etc. complete as per drawing and instruction of engineer-in charge.   | II         | ---                          | As per attached sheet ---          |         |
| 108     | 108      | Earthwork for embankment including watering and consolidation with breaking clods, dressing with an all lead and lift.   | II         | ---                          | As per attached sheet ---          |         |

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| 109     | 109      | Providing and laying compacted W.B.M. 150mm thick of grade-II in two layers each of 75mm thick of machine crushed BT metal of size 40mm to 63mm with using 13% stone screenings of 13.2mm size and 7% stone dust as filler including spreading watering and consolidation by vibratory roller etc. comp. in single layers.   | II         | ---                          | As per attached sheet ---          |         |
| 110     | 110      | Providing and casting in situ controlled trimix cement concrete M-250 for average 200mm thick road work laid as directed including adding super plasticizer admixture of IS make and providing and laying M.S. side rail of road thickness with necessary nut bolts plates fixing as per width applying plate vibrator (electric or diesel) on channel compressor with vacuum dewatering system by using all necessary equipments and materials and machinery such as running screed vibrator on pre-laid M.S. channel for leveling, Vacuum pump, floating and power trowelling etc with filling the joints with bitumen as directed etc complete.   | II         | ---                          | As per attached sheet ---          |         |
| 111     | 111      | Painting lines, dashes, arrows, letters etc on roads, Air fields and like in two coats with road marking paint, brushing including cleaning the surface of all dirt, dust and other foreign matter for all width.  | II         | ---                          | As per attached sheet ---          |         |
| 112     | 112      | Distance Informatory / Destination Sign :- Providing and fixing sign boards made out of 2mm aluminium sheet / 4mm ACP (Aluminum composite Panel); size 180x120 cms. rectangular as per design of IRC-67-2012. Pre treated with phosphating process & acid etching; coated with one coat of epoxy primer and two coats of best quality epoxy paint ; reflectorised with High Intensity Prismatic Grade retro reflectivesheeting of Type-4 as per ASTM D-4956 and latest M.O.S.T.Specifications; 4.0mtr (2 Nos.) long stand post of Iron Angle 75 x 75 x 6mm / 65NB Circular MS Pipe as required and frame fabricated from suitable size iron angle of 50 x 50 x 5mm; painted with best quality epoxy coatings in black and white bands. The details of symbol for each board shall be as per the instruction of engineer in charge. The fixing at site shall be in 1:2:4 CC block of size 45 x 45 x 60 Cms. for each leg including excavation, curing etc. complete under the supervision of engineer in charge. A warranty for 7 years for the Retro reflective sheeting from original manufacturer & a certified copy of 3 year outdoor exposure test report from third party test lab for the product offered shall be submitted by contractor. (B) Class-B Type-4 Retro Reflective sheeting | II         | ---                          | As per attached sheet ---          |         |



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| 113     | 113      | Providing and fixing cattle trap of required size and design by providing GI pipes 50mm dia at 10 cm c/c including providing "c" chanel 100x50x6x6mm size including necessary excavation 10 CM thick CC 1:2:4 for foundation complete CC wall of CC 1:2:4 with cement plaster 15mm thick in CM 1:4 etc. complete as directed by Engineer – in – Charge.   | II         | ---                          | As per attached sheet ---          |         |
| 114     | 114      | Providing and fixing RBT fencing with punched tape concertina upto 3 m height of wall with angle iron 'Y' shaped 40 x 40 x 5mm placed 2.4 m or 3.00 m apart and with 6 horizontal R.B.T. reinforced barbed wire,stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre. (Cement concrete for fixing angle will be paid under seperate item) | II         | ---                          | As per attached sheet ---          |         |
| 115     | 115      | Preparing the existing land /soil and removal of unserviceable soil, stone ,unwanted vegetation and disposing of the same as directed.  | II         | ---                          | As per attached sheet ---          |         |
| 116     | 116      | Preparing the land by filling fertile/ selected garden soil, including leveling & fine dressing and mixing manure/bio tech fertilizer/ fertilizer and termite treatment as per requirement.   | II         | ---                          | As per attached sheet ---          |         |
| 117     | 117      | Plantation of carpet type lawn including labour materials , watering and growing etc. as per instruction of EIC.  | II         | ---                          | As per attached sheet ---          |         |
| 118     | 118      | Plantation of flower bed with selected flower plant including planting the same at 45 CM apart and growing the same including as per instruction of EIC.  | II         | ---                          | As per attached sheet ---          |         |
| 119     | 119      | Planting of hedge with selected hedge plant like Golden , Duranta, Red Bhaji or selected plant @ 45 CM apart as per instruction of EIC.   | II         | ---                          | As per attached sheet ---          |         |
| 120     | 120      | Planting of selected shrubb trees like Ticoma, Nerium or other selected plant including preparing pit of size 30 x 30 x 30 CM and filing with selected garden soil including manure, fertilizer and as per instruction of EIC.  | II         | ---                          | As per attached sheet ---          |         |
| 121     | 121      | Providing Three plants having minimum 2.00 mt. hight and healthy growth of various kinds as like peltroform, Gulmahore, Karanj, Ambla, Rain tree, Sapparni, Cherry, Cryjeliya, Spethodiya, Paras Pipala, Garmali, Neem, Borsalli, Kadam, Buch, Chanpo, Asopalav and as suggested etc.   | II         | ---                          | As per attached sheet ---          |         |

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| 122     | 122      | Providing tree plants having minimum 2.00 mt height and health growth of bottle palm tree, Cycus palm and other palm tree planting including 30 x 30 x 30 Cm. pit filling with selected garden soil including manure, fertilizer as per instruction of EIC.  | II         | ---                          | As per attached sheet ---          |         |
| 123     | 123      | Providing and fixing 1.25 x 0.65 granite Top and 0.45cm Ht Kota stone sandwich type seating benches with Molding , edge as per Design drawing including fixing on site as directed.  | II         | ---                          | As per attached sheet ---          |         |
|         |          | <b>Electrical Items</b>  |            |                              |                                    |         |
| 124     | 124      | Point wiring for Tissimo / Modular secondary light point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires, in below type of pipe to be erected complete with earth continuity and necessary connection with primary light with accessories erected on Metal / PVC / wooden box covered with 3 mm thick PC(Polycarbonate) / Acrylic sheet for open / concealed wiring. with necessary Lamp holder / ceiling rose / H.D.Connector as directed.Note:- Maximum up to 6 mtrs length, excess will be considered as Mains for Secondary Point. (j) in existing pipe erected concealed in wall/ceiling complete | II         | ---                          | As per attached sheet ---          |         |
| 125     | 125      | Point wiring for Light / Bell with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length , in below type of pipe erected with 6A Modular type switch / bell push & accessories and earth continuity of following type, erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected, with necessary Lamp holder/ceiling rose / H.D.Connector as directed.(j) in existing pipe erected concealed in wall/ceiling complete. Cat. III  | II         | ---                          | As per attached sheet ---          |         |
| 126     | 126      | (j) in existing pipe erected concealed in wall/ceiling complete. Cat. III (For point wiring in bathroom and W/C and washbasin area in residential quarters reduce overall rate by 50% of point wiring for light.)  | II         | ---                          | As per attached sheet ---          |         |
| 127     | 127      | Point wiring for FAN with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (Green) both are of .ISI marked 1.1 KV Grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected with 6A Modular type switch and hum free EME step type electronic fan regulator mounted and accessories with earth continuity of following type erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured/metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary ceiling rose / H.D.Connector as directed. (j) in existing pipe erected concealed in wall/ceiling complete. Cat. III              | II         | ---                          | As per attached sheet ---          |         |

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| 128     | 128      | Point wiring for Individual Plug with & earth wire of 1.5 sq.mm (Green) both are of ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires up to 10 mtr length, in below type of pipe erected complete with Modular type switch & 5 pin Plug erected on PVC / Metallic/Wooden box covered with appropriate front plate modules erected on / in wall / ceiling as per pipe erected with following type of accessories.[II] For 16A Plug and 16 amp switch with 2-2.5 sq.mm Cu. Wire from mcb db board. (j) in existing pipe erected concealed in wall/ceiling complete. Cat III                       | II         | ---                          | As per attached sheet ---          |         |
| 129     | 129      | Point wiring for on board Looped Plug with 6A Modular type switch & 5 pin socket erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling with following type accessories Cat. III   | II         | ---                          | As per attached sheet ---          |         |
| 130     | 130      | Point wiring for Two Way Controlled Light Point with 2-1.5 sq.mm & earth wire of 1.5 sq.mm (green) both are of .ISI marked 1.1 KV grade FRLS PVC insulated multi strand copper wires erected in below type of pipe with 6A Modular type switches and following type of accessories erected on PVC / Metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate modules erected on / in wall / ceiling as per pipe erected. with necessary batten/angle holder or ceiling rose or H.D.Connector as directed.(j) in existing pipe erected concealed in wall/ceiling complete | II         | ---                          | As per attached sheet ---          |         |
| 131     | 131      | Providing following type of Modular Type Accessories mounted with PVC / metallic/Wooden box, single mounting base frame covered with textured / metallic/white front plate , modules erected with necessary connections as per site situation directed by Engineer In charge. (4) TV Co-axial Socket outlet Cat.III  | II         | ---                          | As per attached sheet ---          |         |
| 132     | 132      | (5) Electronic hum Free steps EME Fan regulator Cat.III  | II         | ---                          | As per attached sheet ---          |         |
| 133     | 133      | (7) Blank Plate Single Cat.III   | II         | ---                          | As per attached sheet ---          |         |
| 134     | 134      | (10) 16Amp. Universal socket.Cat.III   | II         | ---                          | As per attached sheet ---          |         |
| 135     | 135      | (14) 16A Double Pole Modular MCB Switch Cat.III  | II         | ---                          | As per attached sheet ---          |         |
| 136     | 136      | Providing and erecting ISI mark Medium class RIGID PVC PIPES of following size complete to be erected on/in wall or ceiling erected with necessary PVC fittings & Junction boxes fixed with adhesive solution & Clamps with following dia of pipes, in approved manner as directed (b) 25 mm   | II         | ---                          | As per attached sheet ---          |         |
| 137     | 137      | Providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected concealed in /flushed on wall/ceiling, with 1.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (E) in existing pipe. (b) 2 wire 2.5 sq. mm   | II         | ---                          | As per attached sheet ---          |         |

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| 138     | 138      | providing and erecting Mains with 1.1 KV grade FRLS PVC insulated ISI marked stranded Copper conductor wire in following type of pipe to be erected in / on wall / ceiling with 2.5 sq. mm copper conductor FRLS PVC insulated stranded wire of green colour for earth continuity of following size. (E) in existing pipe. (a) 2 wire 4 sq. mm  | II         | ---                          | As per attached sheet ---          |         |
| 139     | 139      | (E) in existing pipe. (c) 2 wire 10 sq. mm (use earth wire of 4 sq.mm )   | II         | ---                          | As per attached sheet ---          |         |
| 140     | 140      | Supplying and erecting Flexible PVC insulated multi strand multi core 1.1 kv grade ISI marked copper wires of following size to be erected as directed. (e) 1.50 Sq.mm 3 core round PVC sheathed  | II         | ---                          | As per attached sheet ---          |         |
| 141     | 141      | Providing & Erecting approved make following size of TV Co-axial flexible cable comprising inner conductor of solid bare copper insulated with Foam PE & Secondary conductor made of poly - Aluminium film bonded Al. Braids @ suitable coverage overall sheathed with black PVC insulation. (b) RG-6   | II         | ---                          | As per attached sheet ---          |         |
| 142     | 142      | Bakelite adppter for Holder to be erected.  | II         | ---                          | As per attached sheet ---          |         |
| 143     | 143      | Decorative call bell Ting-tong box type 250 volts complete erected  | II         | ---                          | As per attached sheet ---          |         |
| 144     | 144      | Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/ aluminium die cast powder coated and high U.V. & corrosion resistance with diffuser with company mark/name 160V to 270V, Power Factor more than 0.95, THD < 15%,CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt ,LED driver efficiency > 85 % (fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.) (A) Tube Light with integral driver (iv) 22-24 Watts, Surge - 2KV,IP-20, conventional 4 feet Cat-III   | II         | ---                          | As per attached sheet ---          |         |
| 145     | 145      | Supplying and erecting LED indoor fittings with LEDs of wattage 0.2 Watt to 0.5 Watt assembled on single MCPCB, with housing used as a heat sink shall be made of thick sheet Steel conforming to IS: 513/CRCA/aluminium pressure die cast powder coated and high U.V. & corrosion resistance with diffuser housed in aluminium casted body with company mark/name 160V to 270V,Power Factor more than 0.95, THD < 15 %,CCT 3000 K to 6500K, Luminaire efficacy> 85 lumens/watt,LED driver efficiency > 85 % ( fitting required LM-79 & LM-80 Certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings.The Engineer incharge may select any wattage capacity between the ranges shown.)(A) Square/ Circular shaped Surface/Recessed Mount Downlight with provision for spring loaded mounting clips complete.IP20.(ii) 15 watts, Surge- 2 KV Cat III | II         | ---                          | As per attached sheet ---          |         |
| 146     | 146      | (G) Step Light having Aluminium die cast and ABS Plastic material.(i) 5 watts, Direct/Indirect luminaire.Cat III  | II         | ---                          | As per attached sheet ---          |         |

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| 147     | 147      | (H) Mirror Light 9 Watts, wall mounted minimum 1 feet long.   | II         | ---                          | As per attached sheet ---          |         |
| 148     | 148      | Supplying and erecting LED street light / Flood light fittings with High power White LEDs wattage of 3 Watt and above assembled on single MCPCB, efficiency more than 130 lm/w and corrosion free High pressure die cast aluminum housing with smooth finish powder coated and heat sink extruded aluminium with diffuser and Polycarbonate optics/ lenses, with toughened glass with company mark/name engraved or embossed 160 to 270 V, Power Factor more than 0.95, THD < 10 %, CCT 3000 K to 5700K, Uniformity ratio > 0.45, Luminaire efficacy > 100 lumens/watt . LED driver efficiency > 85 %.( fittings required LM-79 & LM-80 certificates)(NOTE: Below description have shown ranges of Wattage capacity of LED fittings. The Engineer incharge may select any wattage capacity between the ranges shown.)(B) Flood Light (IP-65), Surge protection -4KV integral and ,Light must have 440VAC line supply with over-voltage protection. (ii) 50 to 60 Watts. Cat III | II         | ---                          | As per attached sheet ---          |         |
| 149     | 149      | (C) Post Top Lantern LED fitting comprises of finish cast aluminum spigot and spun aluminum canopy fixed with opal polycarbonate, pipe arrangement for vertical mounting driver and accessories wired upto terminal block. IP 65 (ii) 40W Cat-III   | II         | ---                          | As per attached sheet ---          |         |
| 150     | 150      | Supply of Approved make Iron Clad or metal clad four pole change over switch 415V. confirming to IS of following capacity (B) 32A Cat. II   | II         | ---                          | As per attached sheet ---          |         |
| 151     | 151      | providing and erecting Miniature circuit breaker single pole 2A system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark. Cat III  | II         | ---                          | As per attached sheet ---          |         |
| 152     | 152      | providing and erecting Miniature circuit breaker single pole 10 A to 25A suitable to operate on 240 V A.C. system and having breaking capacity 10 KA to be erected in existing box. confirming to IS 8828/1996 with ISI Mark Cat. III   | II         | ---                          | As per attached sheet ---          |         |
| 153     | 153      | Providing & erecting 240 V MCB double pole switch for lighting Load (B Curve) having 10 KA breaking capacity & confirms to IS : 8828 in existing box having following capacity.(B) 40 Amp. Cat. III   | II         | ---                          | As per attached sheet ---          |         |
| 154     | 154      | Sheets steel powder coated enclosure suitable for incorporating One/Two nos. MCB.   | II         | ---                          | As per attached sheet ---          |         |
| 155     | 155      | Providing and erecting Sheet Steel powder coated MCB distribution board - flush / surface mounted fitted with busbar, neutral link, earth bar and DIN rail, Conforms to IS 8623-1 & 3, IEC 61439-1 & 3 without MCB to house appropriate nos. of MCBs. (The DBs should be used of same company of MCB to be used) suitable for (A) single phase incoming and horizontal single phase outgoing (b) sheet steel double door (IP-43) (iv) 12 way  | II         | ---                          | As per attached sheet ---          |         |

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| 156     | 156      | Providing and erecting Approved make RCCBs conforming to IS: 12640 and having sensitivity of 30 mA and Short Circuit withstand capacity of 10 KA and suitable for operation on single phase 240 V,50Hz. having characteristic of quick action & tripping with all advance feature & do not incorporate any electronic component. for following Max. rating erected as directed (ii) 40Amps. DP Cat. III   | II         | ---                          | As per attached sheet ---          |         |
| 157     | 157      | Providing and erecting Annealed bare Copper wire 8 to 12 SWG.   | II         | ---                          | As per attached sheet ---          |         |
| 158     | 158      | Supplying & erecting earth pit of minimum bore dia.150mm size approved make Earthing Electrode consisting Pipe-in-Pipe Technology as per IS 3043-1987 made of corrosion free hot dipped G.I.Pipes having Outer pipe dia of 50mm having 80-200 Micron galvanising, Inner pipe dia of 25 mm having 200-250 Micron galvanising, connection terminal dia of 12mm with constant ohmic value surrounded by highly conductive compound with high charge dissipation suitable for following type of applications with chamber and heavy duty cover. (A)(approved make OEM has to submit test certificate including value of earth resistance of installation duly stamped and signed by agency and officer Incharge has to ensure the value of earthing resistance mentioned in test Certificate) & having back filling compound of (B) Inner chemical (CCM Compound)-Resistivity:- 0.2 ohm / meter testing as per IEC 62561-2017, Voltage drop:- < 1 volt at no load & dry form, Sulphur content:- <2%(C) Back fill Compound :- Earthing compound should be capable to retain moisture for long time Necessary test report must be submitted by Agency. (a) For Electrical Installation up to 440V in normal soil<br>Length of pipe - 1 Mtr<br>Back filling compound - 1 Nos Bag of 15 Kg. | II         | ---                          | As per attached sheet ---          |         |
| 159     | 159      | Providing and erecting XLPE(IS:7098)(I)-88 ISI armoured cable Aluminium conductor for 1.1 KV. to be laid on wall with necessary clamps or in existing trench / pipe of following size of cables. (B) 2 core 6 Sq. mm  | II         | ---                          | As per attached sheet ---          |         |
| 160     | 160      | Making trench in soft soil of suitable width of 90 cm deep for laying cable or locating the fault all over the run and back filling the same and making the surface as normal ground.   | II         | ---                          | As per attached sheet ---          |         |
| 161     | 161      | Making trench in Hard Murrum / Tar Road of suitable width of 90 cm or required depth for laying any size of cable or locating the fault all over the run and back filling the same and making the surface as normal ground.   | II         | ---                          | As per attached sheet ---          |         |
| 162     | 162      | Supplying following size of Light duty "A" Class G.I . Pipe & erecting as directed by Engineer-in-charge. (C) 80 mm dia.  | II         | ---                          | As per attached sheet ---          |         |
| 163     | 163      | Providing & laying approved make Double walled corrugated pipes (DWC) of polyethylene(conforming to IS 14930 II )with necessary connecting accessories of same material at required depth in existing trench for laying of cable. below ground / road surface for enclosing cable (A)50 mm outer dia  | II         | ---                          | As per attached sheet ---          |         |

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| 164     | 164      | Providing & laying approved make ISI marked HDPE 6Kg / cm <sup>2</sup> (Class-3) as per IS:4984:1995 PE-80 to be erected at road crossing on or floor as directed for laying of cable. The pipes as following size of dia & weight per 6 mtr.(B) 50 mm inner Dia.  | II         | ---                          | As per attached sheet ---          |         |
| 165     | 165      | Providing & erecting Approved make Power Saving 50 Watt Ceiling Fan with double ball bearing ISI mark with Condenser 230 volt A.C. 50 Hz 1200 mm sweep complete having 3blades with aluminium blades with , canopy & 30 cm. down rod erected with earthing.(Make shall be approved by Engineer in charge))   | II         | ---                          | As per attached sheet ---          |         |
| 166     | 166      | Supplying & erecting fan hook box of 10 mm M.S. round bar bounded to the RCC bars up to 50mm length each side and pierced through a 16 Gauge M.S. box / Heavy Duty PVC box complete erected concealed in Ceiling with necessary finishing.   | II         | ---                          | As per attached sheet ---          |         |
| 167     | 167      | Providing 2.5mm.thick laminated acrylic sheet to cover the fan hook or Fan box.  | II         | ---                          | As per attached sheet ---          |         |
| 168     | 168      | Supplying & erecting approved make low noise decorative exhaust fan having square frame ABS body with inbuilt lowers & square frame.250mm with 1350 RPM Cat.II   | II         | ---                          | As per attached sheet ---          |         |
| 169     | 169      | Supplying & erecting approved make SMC press moulded composite FRP. loop-in, loop-out approx. 2mm thick box complete with Bakelite connector strip 5way(3P+N+E),DIN rail for mounting mob & hinged doors as per requirement having locking arrangements with mounting clamp with nuts, bolts & washers suitable for erection on pole with cable clamps& earth bolt of following size of box. (C)150mm x 125mm x 100mm [deep] | II         | ---                          | As per attached sheet ---          |         |
| 170     | 170      | Supplying and erecting insulated pair of soft copper tubing open or concealed including power and control cable,necessary PVC drain pipes for Split AC machine up to 4 TR capacity   | II         | ---                          | As per attached sheet ---          |         |
| 171     | 171      | Rigid UPVC drain pipe of 10 Kg/cm <sup>2</sup> . rating with 9 mm thick.nitrile rubber insulation.(A) 50 mm dia.   | II         | ---                          | As per attached sheet ---          |         |
| 172     | 172      | Supplying and erecting horizontal / vertical mounting type storage water heater with copper container housed in M.S./S.S./ABS body insulated with glass wool/puff complete with heating elements,adjustable thermostats 300C to 850C, indicating lamp, safety valve, fusible plug, etc.complete erected with coach bolts, nuts. washers & cementation (B)15 Ltr.-with 2 /3K.W. heating element Cat.III                       | II         | ---                          | As per attached sheet ---          |         |
| 173     | 173      | Providing & erecting open well horizontal mono block pump set with cast iron body, complete for three phase submersible motor having. [B] For 2 HP 3 phase open well horizontal mono block pump set suitable for 200 LPM @ 25 mtr head suitable for 50 mm dia delivery pipe Cat.II   | II         | ---                          | As per attached sheet ---          |         |

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| 174     | 174      | Supplying & erecting approved make motor control cubical panel (Direct - on - line) made from 16 G. CRCA sheet duly epoxy powder painted inside and outside with hinged doors and locking, arrangement consisting of suitable size of ON- OFF isolator (AC - 3/23duty) main fuses, single phasing preventer, indicating lamps for R-Y - B phases, overload relay, Automatic water level controller, Ammeter, Voltmeter each with two way selector switch incoming, wires duly socket crimped, main contactor & overload relay, start - stop push buttons, to be erected on angle iron frame grouted on wall as directed. The isolator, overload relay & contactors will be of L & T, Siemens or BCH make only.(A) DOL up to 5.0 H.P.   | II         | ---                          | As per attached sheet ---          |         |
| 175     | 175      | S.I.T.C. submersible pump set suitable for bore of 100 mm. dia. or more having three phase motor capacity 5 H.P. with following capacity . Lifting and Lowering taken extra.(A) (25 stage) 120 to 125 LPM discharge at 155 to 120 mtrs. head respectively suitable for 50 mm dia. delivery pipe.Cat III  | II         | ---                          | As per attached sheet ---          |         |
| 176     | 176      | Lowering of submersible motor pump set at the depth of following ,complete with required. Nos. and size of casing pipes erected by means of proper chain pulley block & pipe wrenches after checking of threads of each pipe with coupling to take the load of the pump set and pipe assembly filled up with water.(C)Above 120 mtr.   | II         | ---                          | As per attached sheet ---          |         |
| 177     | 177      | Providing and erecting ISI marked PVC insulated PVC Sheathed Flat flexible Submersible copper cable approved make of following Size. (C) 3 Core x 4 Sq. mm   | II         | ---                          | As per attached sheet ---          |         |
| 178     | 178      | Providing Water proof straight Joint in PVC insulated flat flexible copper cable by using insulating material, water proofing material, & making the joint complete. (B) 16 to 35 Sq. Mm   | II         | ---                          | As per attached sheet ---          |         |
| 179     | 179      | Supply of following size of TOP & BOTTOM accessories i.e. Adaptor set (CI) long, pump guard set, starter pipe Rubber ring for submersible pump & UPVC column pipe as directed by Engineer - in - charge with necessary plumbing as desired.[D] 50 mm dia   | II         | ---                          | As per attached sheet ---          |         |
| 180     | 180      | Supply, Installation, Testing & Commissioning of following size of Grid Tied Solar Power Plant with Solar Panels (ALMM approved): Frame Material : Anodized Aluminum alloy Frame With Twin Wall Profile, Front Cover : High Transmission Low-Iron Tempered Glass (AR Coated), High efficiency and positive power tolerance Pmax: 0/+5, Module Efficiency should be approx. 19.5%-22%, Normal operating temperature 45°C, Junction Box with Waterproof IP67 & MC4 Compatible and Enclosed with Bypass diodes, 100% Electroluminescence test to ensure error free Modules, Thep. temp. co-efficient of the PV module shall equal or better than -0.45%/degree C. Solar PV modules of minimum fill factor 75% to be used. Unit Production:- More than 4.5 Unit /kw /day (Actual)(1Year Avg) With 10 year Product warranty and 25 year Linear Power Warranty | II         | ---                          | As per attached sheet ---          |         |



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|         |          | <p>includes all mechanical and electrical parameters of the Solar panel. Modules must be complied to the DCR(Domestic content requirements). The Ratio of AC to DC is 5:6 for the Installation capacity which are given in AC KW.</p> <p>Solar Inverter: MPPT Range: MPPT Range: 80-1000 V , Max efficiency: 97.5% - 98.9%, O/p Frequency: 50/60Hz, Operating Altitude (m) ≤4000, O/p Power Factor: ~1, O/P THDi: &lt;3%, Operating Temperature Range: -25~60°C, Integrated protection of Inverter are Anti-islanding Protection, Input Reverse Polarity Protection, Insulation Resistor Detection, Ground fault protection, Residual Current Monitoring Unit, Output Over Current Protection, Output Short Circuit Protection, Output Over Voltage Protection, PV array string fault Protection. Protection Degree: IP65, User Interface LCD &amp; APP, Datalogger &amp; Communication: GPRS / Wi-Fi.</p>  | II         | ---                          | As per attached sheet ---          |         |
|         |          | <p>Integrated, Input Reverse Polarity Protection<br/>Integrated, Insulation Resistor Detection<br/>Integrated, Residual Current Monitoring Unit<br/>Integrated, Output Over Current Protection<br/>Integrated, Output Short Circuit Protection<br/>Integrated, Output Over Voltage Protection<br/>Integrated, Protection Degree: IP65, User Interface LCD &amp; APP, Datalogger &amp; Communication: GPRS / Wi-Fi, Module Mounting Structure: The mounting (Rectangular pipe / square pipe / circular pipe) with requisite cross bars, nuts and bolts, etc. shall be Hot deep galvanized with minimum 80micron coating. The Rectangular / square /circular hollow pipe section used for the structure should have a minimum thickness of 2.0 mm. other than above, the material thickness should be minimum 2.5 mm. A certificate of a structural engineer certifying the strength and stability of the mounting structure to withstand the weight and wind speed of 150 km/hour throughout the life span of 25 years of the system, shall be submitted by the vendors.</p> | II         | ---                          | As per attached sheet ---          |         |

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|         |          | <p>Hot Dipped Galvanized steel coils. suitable arrangement for base plate for foundation , solar panel mounting, the structure should be suitable for carry the load of solar panel,wiring, sprinkler system etc. with necessary foundation work/wall mount, j bolt, anchor fastner etc. the nut bolt used for installtion of stucture should be (SS 304) quality.The ground clearance of the bottom most edge of solar panel shall not be less than 300 mm to 1200 mm or as per site's technical/feasibility requirement.</p> <p>a. Column –The minimum section (thickness) should be 60MM*40MM b. Rafter - The minimum section (thickness) should be 60MM*40MM c. Purlin - The minimum section (thickness) should be 40MM * 40MM Balane of System with necessary Swichgears (Suitabel size and protection of ACDB &amp; DCDB), inter connecting wiring, earthing system as per the CEIG drawing approval, lightning arrester system as per the CEIG drawing approval, all liasoning work with various gov. dipartment like state nodal agency,DISCOM &amp; CEIG is included in agency scope</p> | II         | ---                          | As per attached sheet ---          |         |
|         |          | (Excluding All charges namely GEDA Application fees, Solar connectivity Charges, Meter connectivity Charges, Meter testing Charges and system stability/strenthning charges.) (B) Grid Tied Solar Power System: 7 - 10 kW (3 - phase)   | II         | ---                          | As per attached sheet ---          |         |

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