

MUNICIPAL CORPORATION OF DELHI

NOTICE INVITING TENDER

AFES/52

EF
JEE/52

1. Item rate/percentage rate tenders are invited on behalf of the Municipal Corporation of Delhi from approved and eligible contractors of Municipal Corporation of Delhi.

Construction of a Public toilet for Ladies Gents near Sonia Camp ward no. 152 in Sec-7 RK Puram in ward no. 152/52 in RK Puram

Sub Head: - Provision of EF and Fan

- 1.1 The work is estimated to cost Rs. 135521/-
This estimate, however, is given merely as a rough guide.
- 1.2 Tenders will be issued to eligible MCD contractors provided they produce definite proof from the appropriate authority, which shall be to the satisfaction of the competent authority, of having satisfactorily completed similar works of magnitude specified below:—
- 1.3 Criteria of eligibility for issue of tender documents
- | | |
|--|--|
| 1.3.1 For work estimated to cost above Rs. 25 Lacs but upto Rs. 2 Crores | Three similar works each costing not less than Rs. _____ Lacs during last 5 years. |
| 1.3.2 For works estimated to cost above Rs. 2 Crores but upto Rs. 3 Crores | Three similar works each costing not less than Rs. 75 Lacs during last 5 years. |
| 1.3.3 For works estimated to cost above Rs. 3 Crores but upto Rs. 5 Crores | Three similar works each costing not less than Rs. 1 Crore during last 5 years. |
| 1.3.4 For works estimated to cost above Rs. 5 Crores | Three similar works each costing not less than Rs. 2 Crores or two similar works of aggregate cost not less than Rs. 6 Crores during last 7 years. |

For the purpose of this clause 'similar work' means the works of P/O EF & Fan.

2. Agreement shall be drawn with the successful tenderer on prescribed Form No. A-33/A-34 which is available as a MCD Publication. Tenderer shall quote his rates as per various terms & conditions of the said form which will form part of the agreement.
3. The time allowed for carrying out the work will be 30 days from the 10 th day after the date of written orders to commence the work or from the first date of handing over of the site, whichever is later, in accordance with the phasing, if any, indicated in the tender documents.

4. The site for the work is available. YES

OR

The site for the work shall be made available in parts as specified below :—

N/A

5. Receipt of applications for issue of forms will be stopped by 1600 Hrs. four days before the date fixed for opening of tenders. Issue of tender forms will be stopped three days before the date fixed for opening of tenders.

Tender documents consisting of plans, specifications, the schedule of quantities of the various classes of work to be done and the set of terms & conditions of contract to be complied with by the contractor whose tender may be accepted and other necessary documents can be seen in the office of the EEE / SZ between hours of 11-00 A.M. & 04-00 P.M. everyday except on Sundays and Public Holidays. Tender documents, excluding standard form, will be issued from his office, during the hours specified above, on payment of Rs. 590 /- in ONLINE

6. The tenderer must produce an Income Tax Clearance Certificate in the revised form as modified under Ministry of Finance O.M. No. 67/30/69/ITAL dated 2-7-1970 as amended from time to time before tenders papers can be sold to him.

7. Tenders, which should always be placed in sealed envelope, with the name of work and due date written on the envelopes, will be received by the EEE / SZ upto 03-00 P.M. on _____ and will be opened by him or his authorised representative in his office on the same day at 03-30 P.M.

8. The tender shall be accompanied by earnest money, (Unless exempted) of Rs. 2750/- in cash/Deposit at Call receipt of a Scheduled Bank issued in favour of COMMISSIONER, MCD the amount being credited to _____. A contractor exempted from depositing earnest money in individual cases, shall attach with the tender an attested copy of the letter exempting him from depositing earnest money and shall produce the original when called upon to do so.

9. The description of the work is as follows :—
AS DETAILED IN SCHEDULE ABSTRACT ATTACHED

Copies of other drawings and documents pertaining to the works will be open for inspection by the tenderers at the office of the above-mentioned officer.

Tenderers are advised to inspect and examine the site and its surroundings and satisfy themselves before submitting their tenders as to the nature of the ground and sub-soil (so far as is practicable), the form and nature of the site, the means of access to the site, the accommodation they may require and in general shall themselves obtain all necessary information as to risks, contingencies and other circumstances which may influence or affect their tender. A tenderer shall be deemed to have full knowledge of the site whether he inspects

it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The tenderer shall be responsible for arranging and maintaining at his own cost all materials, tools & plants, water electricity access, facilities for workers and all other services required for executing the work unless otherwise specifically provided for in the contract documents. Submission of a tender by a tenderer implies that he has read this notice and all other contract documents and has made himself aware of the scope and specifications of the work to be done and of conditions and rates at which stores, tools and plant, etc. will be issued to him by the department and local conditions and other factors having a bearing on the execution of the work.

- 10. The competent authority on behalf of M.C.D. does not bind himself to accept the lowest or any other tender, and reserves to himself the authority to reject any or all of the tenders received without the assignment of a reason. All tenders in which any of the prescribed conditions are not fulfilled or are incomplete in any respect are liable to be rejected.
- 11. Canvassing whether directly or indirectly, in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection.
- 12. The competent authority on behalf of MCD reserves to himself the right of accepting the whole or any part of the tender and the tenderer shall be bound to perform the same at the rate quoted.
- 13. The contractor shall not be permitted to tender for works in the MCD Circle (responsible for execution of contracts) in which his near relative is posted as Divisional Accountant or as an officer in any capacity between the grades of Superintending Engineer and Assistant Engineer (both inclusive). He shall also intimate the names of persons who are working with him in any capacity or are subsequently employed by him and who are near relatives to any category A/B officer in the MCD. Any breach of this condition by the contractor would render him liable to be removal from the approved list of contractors of this department.
- 14. No Engineer of Assistant Engineer rank or other officer equivalent to Assistant Engineer rank employed in Engineering or Administrative duties in an Engineering Department of the MCD/ Govt. is allowed to work as contractor for a period of two years after his retirement from Government service, without the previous permission of the department in writing. This contract is liable to be cancelled if either the contractor or any of his employees is found any time to be such a person who had not obtained the permission of the department as aforesaid before submission of the tender or engagement in the contractors service.
- 15. The tender for the works shall remain open for acceptance for a period of 30 days from the date of opening of tenders. If any tenderer withdraws his tender before the said period or makes any modifications in the terms & conditions of the tender which are not acceptable to the department, then the Government shall, without prejudice to any other right or remedy, be at liberty to forfeit 50% of the said earnest money as aforesaid.

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Name of
Puram
S.

16. This Notice Inviting Tender shall form a part of the contract document. The successful tenderer/ contractor, on acceptance of his tender by the Accepting Authority, shall, within 15 days from the stipulated date of start of the work sign the contract consisting of:—

(a) The Notice Inviting Tender, all the documents including additional conditions, specifications and drawings, if any, forming the tender as issued at the time of invitation of tender and acceptance thereof together with any correspondence leading thereto.

(b) Standard MCD Form A-33/A-34.

17. Upto date amendments to general conditions of contract for CPWD Works 1978 applicable.

Signature of


Divisional Officer/
Sub-Divisional Officer

.....
For & on behalf of Municipal Corporation of Delhi

This DNIT amounting to Rs. 129069/- may be approved please .

Asham
EEE/ SZ


AEE - / SZ


30/04/2020
JEE / SZ

Name of Work:- Construction of a Public toilet for Ladies Gents near Sonia Camp ward no. 152 in Sec-7 R K Puram in ward no. 152/SZ in RK Puram. Sub Head:- Provision of EI and Fans.

S.No	Particulars	Qty.	Unit	Rate	Amount (Rs.)
1	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable etc. as required. Group B	29.000	point	1362	39498.00
2	Wiring for light/ power plug with 2X4 sq.mm FRLS/HFFR PVC insulated copper conductor single core cable in surface/ recessed steel conduit along with 1 No. 4 sq. mm FRLS PVC insulated copper conductor single core cable for loop earthing as required.	40	PM	480	19200.00
3	Wiring for circuit/ submain wiring along with earth wire with the following sizes of FRLS/HFFR PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required. 2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	35	PM	311	10885.00
4	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.(a) Single pole	4	Each	285	1140.00
5	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.(b) Single pole and Neutral	1.000	each	643	643.00
6	Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 25A	1.000	Each	2141	2141.00
7	Supply of 12" (300mm) sweep 1400 rpm exhaust fan heavy duty complete with shutters, blades etc as reqd.	4	Each	2567	10268.00
8	Installation, Testing and Commissioning of exhaust fan in the existing opening, including making good the damage, connection, testing, commissioning etc. as required.(a) Up to 450 mm sweep	4	Each	556	2224.00
9	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 3 pin 5/6 A modular socket outlet and 5/6 A modular switch, connections etc. as required.	4.000	each	545	2180.00
10	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 A modular socket outlet and 15/16 A modular switch, connections etc. as required.	4.000	each	659	2636.00

11	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator). 8 way, Double door	1.000	each	2773	2773.00
12	SITC of single/three phase monoblock pump set complete with all accessories worable on 240/415 volts, 50 Hz ac supply (a) 1 HP (0.75kw) single phase pump set, head from 12-30 metre suction delivery head from 12-30 metre sunction and delivery 25x25 mm.	1.000	each	8535	8535.00
13	Earthing with G.I. earth pipe 4.5 Meter long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal/ coke and salt) as required.	1.000	Set	5958	5958.00
14	Providing and fixing 6 SWG dia G.I. wire on surface or in recess for loop earthing along with existing surface/ recessed conduit/ submain wiring/ cable as required.	20.000	Metre	50	1000.00
15	LED Batten light (System lumen efficacy $\geq 105 < 120$ lm/Watt). Supplying, Installation, Testing & Commissioning of LED surface mounted Batten light of following body material and construction as per IS : 10322 with driver (Replaceable) as per the requirement with Driver efficiency $> 85\%$, Operating voltage AC 140-270 Volt, frequency 50/60 hz, Operating temp range -5°C to 40°C , internal surge protection of 2.5 KV with Short & Open circuit protection, THD $< 10\%$, P.F. ≥ 0.95 , IP20, CRI > 80 , Flicker free, (flicker should be below 5 %), life time (LED, Driver & electrical circuitry), of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends, CCT $3000^{\circ}\text{K} / 4000^{\circ}\text{K} / 5700^{\circ}\text{K} / 6500^{\circ}\text{K}$ (As per ANSI Bin), SDCM(Standard Deviation Colour Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Colour Matching) < 3 , Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard. Manufactures Word Mark/ Name Engraved/ Embossing/ Screen printing on housing. complete in all respect i/c external connections with 1.5 sq mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy $\geq 105 < 120$ lm/Watt output . LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C) Powder coated die cast /Extruded aluminium Body (Thickness > 1.20 mm). 18- 22 Watt	22	Nos.	681	14982.00

16	<p>LED Flood Light, powder coated pressure die cast aluminium (System lumen efficacy >135 lm/Watt) Supplying, Installation, Testing & Commissioning of Flood Light, powder coated pressure die cast aluminium body with built in or separate driver as per the requirement with Driver efficiency >85%, Input voltage: Input voltage: 140-270 Volt AC, frequency 50/60 hz, Operating temp range -5 0C to 50 0C, internal surge protection of 5 KV L,N,E as per IEC 61000-4-5, Driver efficiency >85%,THD < 10% as per IEC 61000-3-2, P. F. ≥ 0.95, IP-66,IK-10, CRI>70, under voltage and over voltage protection,EMI-EMC as per CISPR-15, lenses for beam angle 30 deg-120deg as per the application and the project requirement., suitable tilt able fitting, life time (LED, Driver & electrical circuitry) of minimum 50000 Burning Hours with 70% of initial Lumen maintained till life ends as per LM80 extrapolation IES TM-21-11 report, CCT 3000°K / 4000°K / 5700°K /6500°K (As per ANSI Bin) , SDCM(Standard Deviation Colour Matching) <5, Maximum power consumption should not more than the specified rating and Fixture shall be of relevant BIS standard complete in all respect i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required with Minimum 5 year OEM warranty. System lumen efficacy >135 lm/Watt output. LM79 & LM80 Test report and all testing required for LED fixtures as per BIS shall be submitted. Shape size and CCT shall be as approved by Engineer-in-Charge as per requirement. (Thermal management: heat sink of aluminium housing such that LED junction temperature shall not rise above 90°C). 50 watt</p>	1	Each	2089	2089.00
17	<p>Providing and fixing circular/ Hexagonal cast iron or M.S. sheet box for ceiling fan clamp, of internal dia 140 mm, 73 mm height, top lid of 1.5 mm thick M.S. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron/ M.S. sheet box by means of 3.3 mm dia round headed screws, one lock at the corners. Clamp shall be made of 12 mm dia M.S. bar bent to shape as per standard drawing.</p>	1	Each	220.65	220.65

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18	Brush Less Direct Current (BLDC) Fan without Remote Supply, Installation, Testing and Commissioning of ceiling fan with Brush Less Direct Current (BLDC) Motor, class of insulation: B, 3 nos. metal(Aluminium alloy) blades, 30 cm long down rod, 2 nos. canopies, shackle kit, safety rope, copper winding, steel/Al body Power Factor not less than 0.9, Service Value.(CM/M/W) minimum as below, 350 RPM (tolerance as per IS : 374-2019), THD (Total Harmonic Distortion) less than 10%, suitable for operation with regulator for speed control and all remaining accessories including safety pin, nut bolts, washers, temperature rise=75 OC (max.), insulation resistance more than 2 mega ohm, suitable for 230 V, 50 Hz, single phase AC supply, Ceiling Fan compliant to IS 374:2019 fan i/c external connections with 1.5 sq.mm FRLS/HFFR, PVC insulated copper conductor single core cable and earthing etc. as required.1200mm, service value ≥ 6.0 CM/Min/Watt, air delivery 210 CM/Min (Minimum)	1	nos.	2695	2695.00
				Sub Total	129067.7

DNIT amounting to Rs. 1,29,068/- only may kindly approve please


EEE/SZ


30/04/20
AEE/SZ


30/04/20
JEE/SZ

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PROFORMA OF SCHEDULES A TO F	SOUTH DELHI MUNICIPAL CORPORATION
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PROFORMA OF SCHEDULES
 (Separate Performa for Civil, Elect. & Hort. Works In case of Composite Tenders)
 (Operative Schedules to be supplied separately to each intending tenderer)

SCHEDULE 'A'
 Schedule of quantities *Attached*

SCHEDULE 'B'
 Schedule of materials to be issued to the contractor. *NA*

S.No.	Description of item	Quantity	Rates in figures & words at which the material will be charged to the contractor	Place of issue
1	2	3	4	5

SCHEDULE 'C'
 Tools and plants to be hired to the contractor

S.No.	Description of item	Hire charges per day	Place of issue
1	2	3	4

SCHEDULE 'D'
 Extra schedule for specific requirements/document for the work, if any. *NA*

SCHEDULE 'E'
 Reference to General Conditions of contract.

Name of Work: *Provisioning of a Public toilet & Ladies Gents near Sonia Camp ward no-152 in Sec-7 RK Puram in ward no-152/52 in RK Puram. Sub Head: - Provisioning of EI and Fern.*

Estimated cost of work : Rs. *1,35,521/-*

- (i) Earnest Money : Rs. *27,500/-* (to be returned after receiving performance guarantee)
- (ii) Performance Guarantee : 5% of tendered value
- (iii) Security Deposit : 2.5% of tendered value

Or

2.5% of tendered value plus 2.5% of PG for contracts involving maintenance of the building and services/ other work after construction of same building and services/ other work

SCHEDULE 'F'

GENERAL RULES & DIRECTIONS :

Officer Inviting tender *EEA/52*
 Maximum percentage for quantity of items of work to be executed beyond which rates are to be determined in accordance with Clauses 12.2 & 12.3:

(17)

PROFORMA OF SCHEDULES A TO F SOUTH DELHI MUNICIPAL CORPORATION

Definitions:

2(v) Engineer-in-Charge E.E.E/S.2
2(viii) Accepting Authority SEE
2(x) Percentage on cost of materials and Labour to cover all overheads and profits: 15%
2(xi) Standard Schedule of Rates D.S.R. E.F.M. 2015 & A.R.
2(xii) Department Electrical
9(ii) Standard SDMC Contract Form SDMC Form A-33/A-34 modified & Corrected up to date

Clause 1

- (i) Time allowed for submission of Performance Guarantee, programme chart (time and progress) and applicable labour licenses, registration with EPFO, ESIC and BOCW welfare Board or proof of applying thereof from the date of issue of letter of acceptance 07 days
(ii) Maximum allowable extension with late fee @ 0.1% per day of Performance Guarantee amount beyond the period provided in (i) above 0.7 days* (1 to 15 days to be filled by NIT approving authority)

Clause 2

Authority for fixing compensation under clause 2 SEE

Clause 2A

Whether Clause 2A shall be applicable Yes / No
Applicable clause 2/clause 2A

Clause 5

Schedule of handing over the site.
Applicable clause 5/clause 5A

Table with 4 columns: Part, Portion of Site, Description, Time period for handing over reckoned from date of issue of letter of intent. Rows include Part A (Full, 10), Part B (NA, NA), Part C (NA, NA).

Schedule of Issue of Designs.

Table with 4 columns: Part, Portion of design, Description, Time period issue of design reckoned from date of receipt of tender. Rows include Part A (NA, NA), Part B-1 (NA, NA), Part B-2 (NA, NA), Part B-3 (NA, NA).

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PROFORMA OF SCHEDULES A TO F SOUTH DELHI MUNICIPAL CORPORATION

Clause 5.2 Nature of Hindrance Register (either Physical or Electronic) Physical

Clause 5.4 Schedule of rate of recovery for delay in submission of the modified programme in terms of delay days

Table with 3 columns: S.No., Contract Value, Recovery (Rs.). Rows I-IV with values ranging from 500 to 5000.

Number of days from the date of issue of letter of acceptance for reckoning date of start 10 days

Mile stone(s) as per table given below :-

Table with 4 columns: S.No., Description of Milestone (Physical), Time allowed in days (from date of start), Amount to be with-held in case of non-achievement of milestone.

Time allowed for execution of work. 30 Days Months.

Authority to decide :

- (i) Extension of time S.E.E. (Engineer in Charge or Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)
(ii) Rescheduling of mile stones S.E.E. (Superintending Engineer in Charge or Superintending Engineer in Charge of Major Component in case of Composite contracts, as the case may be)
(iii) Shifting of date of start in case of delay in handing over of site S.E.E. (Superintending Engineer in Charge or Superintending Engineer in Charge of Major Component in case of Composite Contracts, as the case may be)

Clause 6, 6A

Clause applicable - (6 or 6A)

- (i) For works having estimated cost more than Rs. 15 lacs - Clause 6A
(ii) For works having estimated cost Rs. 15 lacs or less - Contractor's option either of Clause 6 or Clause 6A (to be exercised at Tender Submission)

Clause 7

- Gross work to be done together with net payment /adjustment of advances for material collected, if any, since the last such payment for being eligible to interim payment

Rs.

Clause 7A

Whether Clause 7A shall be applicable

Yes/No

Clause 8 B

- (i) This shall not apply for maintenance or up gradation contracts not involving any services.
(ii) For other works, the limit shall be as below :

Table with 3 columns: S.No., Contract Value, Limit (Rs.). Rows I-IV with values ranging from 2000 to 50000.

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PROFORMA OF SCHEDULES A TO F SOUTH DELHI MUNICIPAL CORPORATION

Clause 10A

List of testing equipment to be provided by the contractor at site lab.

- 1. Meggax 2. Multimeter 3. Screw Gauge 4. Vernier Caliper 5. Earth Tester 6.

Clause 10B(ii) N.A.

Whether Clause 10 B (ii) shall be applicable

Clause 10C N.A.

Yes / No

Component of labour expressed as percent of value of work = %

Clause 10CA N.A.

Table with 4 columns: S.No., Material covered under this clause, Nearest Materials (other than cement*, reinforcement bars and the structural steel) for which All India Wholesale Price Index to be followed, Base Price and its corresponding period of all Materials covered under clause 10 CA**

* includes Cement component used in RMC brought at site from outside approved RMC plants, if any.

**Base price and its corresponding period of all the materials covered under clause 10 CA is to be mentioned at the time of approval of NIT. In case of recall of tenders, the base price may be modified by adopting latest base price and its corresponding period. (Modified vide OM DG/CON/260 dt. 27.02.2012)

Clause 10CC N.A.

Clause 10 CC to be applicable in contracts with stipulated period of completion exceeding the period shown in next column 12 months

Schedule of component of other Materials, Labour, etc. for price escalation.

Component of civil (except materials covered under clause 10CA) /Electrical construction Materials expressed as percent of total value of work. - Xm %

Component of Labour - expressed as percent of total value of work. Y %

Note : Xm% should be equal to (100) - (materials covered under clause 10CA i.e. Cement, Steel, POL and other material specified in clause 10CA + Component of Labour)

Clause 11

Specifications to be followed for execution of work

C.P.W.D. specification

Clause 12

Type of work Project

***To be filled by NIT approving authority either Project and original work or Maintenance works including works of up-gradation, aesthetic, special repair, addition/ alteration in buildings.

The items related to road work like up-gradation/ improvement of footpath & central verge, improvement of carriage way by patch repair or annual/periodical repairs of road surface and A/R & M/O works pertaining to road shall be treated as maintenance work.

New road construction works and the strengthening of road surface shall be considered as original works. (Modified vide OM DG/CON/270 dt. 11.06.2012)

12.2 & 12.3 Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for building work

N.A.

(14)

PROFORMA OF SCHEDULES A TO F SOUTH DELHI MUNICIPAL CORPORATION

12.5 (i) Deviation Limit beyond which clauses 12.2 & 12.3 shall apply for foundation work (except items mentioned in earth work sub head in DSR and related items) N.A. (ii) Deviation Limit for items mentioned in earth Work sub head of DSR and related items. N.A.

Clause 16 Competent Authority for deciding reduced rates

Clause 18 List of mandatory machinery, tools & plants to be deployed by the contractor at site:- 1. Meggar 2. Multimeter 3. Screw Gauge 4. Vernier Caliper 5. Earth Tester 6. 7. 8. 9.

Clause 25 Constitution of Dispute Redressal Committee (DRC) Chairman - N.A. Member - N.A. Member - N.A.

Clause 36 (i) Requirement of Technical Representative(s) and recovery Rate

Table with 7 columns: S. No., Minimum Qualification of Technical Representative, Discipline, Designation (Principal Technical/ Technical Representative), Minimum Expenditure, Number, Rate at which recovery shall be made from the contractor in the event of not fulfilling provision of clause 36(i) (Figure, Words). The table is mostly empty with a diagonal line drawn through it.

Assistant Engineers retired from Government services that are holding Diploma will be treated at par with Graduate Engineers.

Diploma holder with minimum 10 year relevant experience with a reputed construction co. can be treated at par with Graduate Engineers for the purpose of such deployment subject to the condition that such diploma holders should not exceed 50% of requirement of degree engineers.

Clause 42 (i) (a) Schedule/statement for determining theoretical quantity of cement & bitumen on the basis of Delhi Schedule of Rates

..... printed by C.P.W.D.

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PROFORMA OF SCHEDULES A TO F | **SOUTH DELHI MUNICIPAL CORPORATION**

- (ii) Variations permissible on theoretical quantities:
 - (a) Cement
 - For works with estimated cost put to tender not more than Rs. 5 lakh. 3% plus/minus.
 - For works with estimated cost put to tender more than Rs.5 lakh. 2% plus/minus.
 - (b) Bitumen All Works 2.5% plus & only & nil on minus side.
 - (c) Steel Reinforcement and structural steel sections for each diameter, section and category 2% plus/minus
 - (d) All other materials. Nil

RECOVERY RATES FOR QUANTITIES BEYOND PERMISSIBLE VARIATION

S.No.	Description of Item	Rates in figures and words at which recovery shall be made from the Contractor	
		Excess beyond Permissible variation	Less use beyond permissible variation
1.	Cement		
2.	Steel Reinforcement		
3.	Structural Sections		
4.	Bitumen issued free		
5.	Bitumen issued at stipulated fixed price		

ANNEXURE TO CLAUSE 34 (x)

SOUTH DELHI MUNICIPAL CORPORATION

- 13. 5 cm thick bitumen concrete surfacing using stone aggregate 4.8 cum (60% 25 mm nominal size and 40% 20mm nominal size) per 100m² and coarse sand 2.4 cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen 370 sqm
- 14. 6cm thick bitumen concrete surfacing using stone aggregate 5.8 cum (60% 40mm nominal size and 40% 25mm nominal size) per 100 Sqm and coarse sand 3.9 cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen. 280 sqm
- 15. 7.5 cm thick bitumen concrete surfacing using stone aggregate 7.3 cum (60% 50mm nominal size and 40% 40mm nominal size) per 100 Sqm and coarse sand 3.65 cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen. 230 sqm
- 16. 2.5 cm bitumastic sheet using stone aggregate 1.65 cum (60% 12.5mm nominal size and 40% 10mm nominal size) per 100 Sqm and coarse sand 1.65 cum per 100 Sqm and hot cut back bitumen over a tack coat of hot cut back bitumen. 750 sqm
- 17. 4cm bitumastic sheet, using stone aggregate 2.6 cum (60% 12.5mm nominal size and 40% 10mm nominal size) per 100 Sqm and coarse sand 2.5 cum per 100 Sqm and hot cut back bitumen over a tack coat of hot bitumen. 560 sqm
- 18. Laying full grouted surface using stone aggregate 40 mm nominal size 6.10cum per 100 Sqm with binder, binding with 20mm to 12.5mm nominal size stone grit. 1.83 cum per 100 Sqm and seal coat of binder and stone grit 10mm nominal size, 1.07cum per 100 Sqm, the binder being hot bitumen or tar as specified. 460 sqm
- 19. Laying full grouted surface using stone aggregate 50mm nominal size 9.14 cum per 100 Sqm grouting with binder with stone grit 20 mm to 12.5 mm nominal size, 1.83 cum per 100 Sqm and seal coat of binder and stone grit 10mm nominal size 1.07 cum/100 Sqm the binder being hot bitumen or tar. 370 sqm
- 20. 4cm thick premix macadam surfacing using stone aggregate 25mm nominal size 4.57 cum per 100 Sqm and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 cum per 100 Sqm and seal coat of hot bitumen and stone aggregate 10mm nominal size 1.07 cum per 100 Sqm. 560 sqm
- 21. 5cm thick premix macadam surfacing with stone aggregate 25 mm nominal size, 6.10 cum per 100 Sqm and hot bitumen binding with stone aggregate 12.5 mm nominal size 1.52 cum per 100 Sqm and seal coat of hot bitumen and stone aggregate 10mm nominal size 1.07 cum per 100 Sqm. 460 sqm

SPECIAL CONDITIONS OF CONTRACT (which shall prevail over GCC):

1. No payment shall be made for work, estimated to cost Rs. twenty lacs or less till after the whole of the work shall have been completed and certificate of completion given. For works estimated to cost over Rs. twenty lacs, the interim or running account bills shall be submitted by the contractor for the work executed on the basis of such recorded measurements on the format of the Department in triplicate on or before the date of every month fixed for the same by the Engineer-in-Charge. The contractor shall not be entitled to be paid any such interim payment if the gross work done together with net payment/ adjustment of advances for material collected, if any, since the last such payment is less than the amount specified in Schedule 'F', in which case the interim bill shall be prepared on the appointed date of the month after the requisite progress is achieved. Engineer-in-Charge shall arrange to have the bill verified by taking or causing to be taken, where necessary, the requisite measurements of the work. In the event of the failure of the contractor to submit the bills, no claims whatsoever due to delays on payment including that of interest shall be payable to the contractor. Payment on account of amount admissible shall be made by the Engineer-in-Charge certifying the sum to which the contractor is considered entitled by way of interim payment at such rates as decided by the Engineer-in-Charge. An amount of ad-hoc payment not less than 75% of the net amount of the bill under check, shall be made within 10 working days of submission of the bill by the Contractor to the Engineer-in-Charge or his Authorized Engineer together with the account of the material issued by the department, or dismantled materials, if any. The remaining payment is also to be made after final checking of the bill within 28 working days of submission of bill by the contractor. In case of delay in payment of intermediate bills after 45 days of submission of bill by the contractor, provided the bill submitted by the contractor found to be in order, a simple interest @ 5% (five percent) per annum shall be paid to the contractor from the date of expiry of prescribed time limit. All such interim payments shall be regarded as payment by way of advances against final payment only and shall not preclude the requiring of bad, unsound and imperfect or unskilled work to be rejected, removed, taken away and reconstructed or re-erected. Any certificate given by the Engineer-in-Charge relating to the work done or materials delivered forming part of such payment, may be modified or corrected by any subsequent such certificate(s) or by the final certificate and shall not by itself be conclusive evidence that any work or materials to which it relates is/are in accordance with the contract and specifications. Any such interim payment, or any part thereof shall not in any respect conclude, determine or affect in any way powers of the Engineer-in-Charge under the contract or any of such payments be treated as final settlement and adjustment of accounts or in any way vary or affect the contract. Pending consideration of extension of date of completion, interim payments shall continue to be made as herein provided without prejudice to the right of the department to take action under the terms of this contract for delay in the completion of work, if the extension of date of completion is not granted by the competent authority. The Engineer-in-Charge in his sole discretion on the basis of a certificate from the Asstt. Engineer to the effect that the work has been completed up to the level in question make interim advance

payments without detailed measurements for work done (other than foundations, items to be covered under finishing items) up to lintel level (including sunshade etc.) and slab level, for each floor working out at 75% of the assessed value. The advance payments so allowed shall be adjusted in the subsequent interim bills to be submitted by the contractor within 10 days of the interim payment. In case of delay in submission of bill by the contractor a simple interest @ 10% per annum on the advance payment made shall be paid to the Government from the date of expiry of prescribed time limit.

2. The final bill shall be submitted by the contractor in the same manner as specified in interim bills within three months of physical completion of the work or within one month of the date of the final certificate of completion furnished by the Engineer-in-Charge whichever is earlier. No further claims shall be made by the contractor after submission of the final bill and these shall be deemed to have been waived and extinguished. Payment of those items of the bill in respect of which there is no dispute, and for those items which are in dispute on account of quantity and/or rates shall be paid at approved quantity and/or rates by the Engineer-in-Charge, within three months period reckoned from the date of receipt of the bill by the Engineer in-Charge or his authorized Assistant Engineer, complete with account of materials issued by the Department and dismantled materials. If the final bill is submitted by the contractor within the period specified above and payment of final bills is made by the deptt. after prescribed time limit, a simple interest @ 5% per annum shall be paid to the contractor from the date of expiry of prescribed time limit, provided the final bill submitted by the



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MUNICIPAL CORPORATION OF DELHI
OFFICE OF THE ADDL. COMMISSIONER (ENGG)
6TH FLOOR, E-1, BLOCK, CIVIC CENTRE,
J.L. NEHRU MARG, NEW DELHI-110002.



No: - Addl. Comm(Engg.)/MCD/2026/D- 88

Dated: - 18/03/26

CIRCULAR

Sub: Modification in Para 5.2 of CPWD Work Manual 2024.

CPWD vide office memorandum No .DG/Manual -2024/20 Dated 27.02.26 has issued modification Para no. 5.2 of CPWD Work Manual 2024 regarding performance guarantee, abnormally low bid and requirement of additional performance guarantee (copy enclosed).

The provisions of OM No. DG/Manual-2024/20 Dated 27.02.26 shall be applicable mutatis mutandis in all the engineering works of MCD.

These provisions shall be applicable in tender cases where last date of bid submission has not been lapsed.

These provisions shall come into force with immediate effect.

This issues with the approval of competent authority.

Encl: as above

All CEs/SEs/EEs(Through CEs)

18/3/26
Additional Commissioner (Engineering)

(5) 37/4

केन्द्रीय लोक निर्माण विभाग
कार्यालय झापन

No. DG/Manual-2024/20

ISSUED BY THE AUTHORITY OF DIRECTOR GENERAL, CPWD

Vidyut Bhawan, New Delhi

Dated: 27.02.2026

Sub: Modification In Para 5.2 for CPWD Works Manual 2024.

Following modification is made in Para no. 5.2 for CPWD Works Manual 2024:

Existing Provision	Modified Provision
5.2 Performance Guarantee	5.2 Performance Guarantee
Sl. No. 1	No Change
2. PG shall be 5% of the contract amount or as prescribed from time to time to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of sixty days beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.	2. PG shall be 5% of the Estimated cost put to tender (ECPT) or contract amount whichever is higher, or as prescribed from time to time, to be submitted in the form as prescribed in GCC. Performance Guarantee shall remain valid for a minimum period of six months beyond the date of completion of all contractual obligations as per GCC. In case of contracts where supplementary agreement is drawn, the fresh PG shall be obtained from the contractor @ 5% of the amount of the supplementary agreement or as prescribed from time to time. The PG received against the original work shall be released as per contract conditions.
Sl. No. 3	No Change
4. No provision	4. A bid will be treated as abnormally low if the quoted bid amount is lesser than 80% of the estimated cost put to tender.
5. No provision	5. Requirement of Additional Performance Guarantee (APG) : In case of abnormally low bids as defined above, the bidder shall be required to submit Additional Performance Guarantee (APG) in addition to the Standard Performance Guarantee (PG). The amount of Additional Performance Guarantee (APG) shall be equivalent to the difference between the 80% amount of ECPT and quoted amount. (e.g. If ECPT is A and quoted amount is 0.7A then the amount of APG shall be

1-3
S. B. Jindal
CEFC Contract

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	0.8A – 0.7A). The Additional Performance Guarantee (APG) shall be in the prescribed format of Performance Guarantee and has to be submitted within the time frame prescribed for submission of Performance Guarantee. The other terms and conditions of release etc. of APG shall be same as that of PG.
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This is issues with the approval of DG CPWD.

Praccc/n
27-02-2026

(चन्द्र पाल)
सी.ई. (कॉन्ट्रैक्ट) (वि. एन्ड एन.)
Chander Pal, SE (C&M)

अधीक्षण अभियंता

Issued from file No. CSQ/CM/16(1)/2026 e-file 9212995 (DFA/ 9365789)

केलोनवि तथा लोनवि दिल्ली के सभी अधिकारियों को आवश्यक सूचना एवं कार्यवाही हेतु। (केलोनवि वेबसाईट के माध्यम से)

D.P. Jindal

D.P. Jindal
EE (Contract)

(5)

Conditions & Specifications

1. The work shall be carried out strictly in accordance with CPWD Specification 2013, amended up to date and shall comply with provisions of Indian Electricity Rule 1956 and Indian Electricity Act 2003 amended up to date.
2. All MCD General Conditions of contract with upto date amendment/modification/addition to existing additional conditions shall enforce.
3. Specifications not covered in the General specifications of CPWD shall be governed by relevant IS specifications. In case IS specifications are also not available than the decision of Engineer-In-Charge given in writing based on acceptable sound engineering Practice and local usage shall be binding on the contractor.
4. All material shall be one of the make mentioned I
5. n'CPWD specifications and approved by Engineer – In – Charge. All materials shall confirms to IS specifications wherever these exists.
6. All material brought by the Contractor for use on work shall have to of be good quality. The same has to be got approved from the Engineer-in-Charge before using the same on the work. No claim for defective material brought by the contractor and not approved by the Engineer-in-Charge shall be entertained.
7. All T&P required for execution of work i/c mounting of fitting on poles, digging of trenches, handling of materials brought by contractor at his own cost and nothing extra shall be paid on this account.
8. The contractor shall furnish necessary certificate / documents / Material test certificate in support of genuiness / conformity to ISS of materials / items used at site & payment receipts of GST as & when desired by the department.
9. Contractor shall prepare drawing as per actual site and directions given by Engineer-in-charge and get the same approved from Engineer-in-Charge before start of work.
10. The work shall be carried out according to approved drawing; however the department reserves right to change the lay-out as per requirements of site.
11. Contractor is advised to visit the site and make him acquaint with the site conditions before quoting the rates. No future claim due to site restrictions shall be entertained at later stage.
12. The contractor is bound to sign the entry /entries made by Engineer in charge or his representative in the site order book time to time.
13. Embedding of earth electrode, making RCC foundation, laying of cable, Lowering of Pipes in Boring or any other work below ground level shall be done in the presence of Engineer in charge or his authorized representative. Loop earthing shall be as per CPWD specifications. The contractor shall intimate the Engineer-in-Charge in advance well before the execution of such works.
14. Notwithstanding the schedule of quantities, all items of inter-related work considered necessary to make installation complete and operative deemed to be included and shall be provided by the contractor at no extra cost.
15. The Electrical works shall be executed in close co-ordination with the progress of Building/Civil work. This being essences of the contract, no claim for idle labour will be entertained.

16. Any damage caused to Building as a result of execution of Electrical work shall be responsibility of the Electrical contractor. The damage if so caused shall be made good by the contractor promptly at his own cost to the entire satisfaction of the Engineer in charge.
17. The dismantled materials if any received from the work should be duly accounted for and returned to the concerned JE(Elect) in charge of work at his store free of cost.
18. The rates tendered shall be for complete item of works inclusive of all taxes, duties & levies etc. and all charges for the item contingent to the work.
19. Engineer-in-Charge reserves the right to get the testing of any material delivered at site from designated lab or from any other independent NABL Accredited labs (if not available in designated labs) to ensure the specifications of material as per tender, in addition to the tests recommended by QC deptt. The contractor shall pay the cost of testing and hence rates should be quoted accordingly.
20. Third party quality Audit & testing of samples in the designated lab is mandatory as per circular no. D/CE/QC/2021/SE(QC)D-237 dated 9.2.2022. Necessary charges for Third Party and Testing of samples are to be paid by contractor. The rates should be quoted accordingly.
21. The contractor has to carry out excavation of trenches for cables & pipe laying in a fixed time frame in close coordination with civil contractor. It will be the responsibility of the contractor to carry out the excavation of trenches within target period utilizing all possible resources. All the debris/mud resulting from trenching, excavation will have to be immediately shifted to appropriate location as per directions of JEE concerned.
22. The watch and ward of entire installation shall be sole responsibility of the contractor until these are tested and handed over to the department.
23. Contractor shall make his own arrangement for watch & ward and safety of his men and material and nothing extra shall be paid by the department on this account. Contractor shall also be responsible for the safe custody of material issued to him by the department (if any) till such time the work is completed & installation is handed over back to the department. Nothing extra shall be paid in this account.
24. The Engineer in charge will be at liberty to get the work inspected through the C.T.E. or any other agency appointed by the Govt. or Municipal Corporation of Delhi and the result of their finding will be binding on the contractor.
25. The contractor will co-operate in handing over the fitting/installation to NDPL/BSES or any other Department / agency as per directions of Engineer- In- Charge. The Contractor will rectify the defect pointed out at the time of handing over free of cost.
26. Installation /equipments or components thereof shall be rectified/repaired to the satisfaction of the Engineer in Charge.
27. OEM name must be embossed / engraved / Screen Printed on Housing of LED Fixture. Sticker not allowed.
28. The Companies manufacturing LED luminaries shall comply with Electronics & IT goods (requirement for compulsory registration) order 2012 amended up to date. The contractor/agency will submit necessary documents in this regard for the LED manufacturer proposed to be installed.

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- 29. In case of any accident, injury met by its labour, employee or any other person working for him or general public or any miss-happening or labour claims etc. the entire responsibility shall be of the contractor in every aspect.
- 30. The contractor shall to ensure all safety guidelines, rules and regulations, labour laws etc. Any compensation sought by its labour, employee or any other person working for him or general public either during operation of work order or at any stage later on, shall be paid by the contractor as per settlement solely. MCD has no role to play in this matter. In case, any dispute arises out of these conditions, the directions / decisions / settlements by court, the full compensation amount shall be borne by the contractor. If the contractor does not abide by this condition, MCD reserves the right to pay the aggrieved party directly and the same shall be recovered from the payouts of the contractor.
- 31. The bidder shall be responsible to have applicable ESI, PF or any other registration as required in respect of labour deployed by him. Evasion of such mandatory regulations shall be sole responsibility of the successful bidder. Department will have the right to recover the same from Contractor's payout and deposit in EPFO if found evaded at later stage.
- 32. The contractor has to arrange for water and electricity arrangement for the work. Department is not liable to arrange the same .
- 33. Temporary barricading reflecting signs, red color/Making flags arrangement will be provided by the contractor during the execution of entire work.
- 34. Upto date amendments to General conditions of contract for MCD work is applicable.
- 35. In addition to conditions in this tender document, provisions in CPWD manual amended up to date and other relevant conditions mentioned in form 32 and 33 issued with this NIT will also be applicable.

Special Condition:

- A. These special conditions shall prevail on GCC.
- B. If due to site conditions, the quantity of any item of contract whose accepted rates are higher than the justified rates worked out by the department increases over and above the quantity stipulated in the schedule of quantities, such increase in quantity shall have to be executed by the contractor and will be paid on the justified rates worked out by the department.
- C. If due to site conditions, the quantity of any item of contract whose accepted rates are higher than the justified rates worked out by the department decreases from the quantity stipulated in the schedule of quantities then the contractor shall not be entitled for any claim on this account.
- D. If due to site conditions and to met with the scope of work, the quantity of any item of contract whose accepted rates are lower than the justified rates worked out by the department increases over and above the quantity stipulated in the schedule of quantities, such increased quantity shall have to be executed by the contractor and will be paid on the accepted rates. No claim on this account will be entertained.
- E. If due to site conditions, the quantity of any item of contract whose accepted rates are abnormally lower than the justified rates worked out by the department decreases from the quantity stipulated in the schedule of quantities, such non executed quantities shall be recovered at the difference of justified rates worked out by the department and accepted rates of item of contract.
- F. In case of Extra Items while deciding the rates prevailing market rates will be the criteria subject to the rider that

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Market rates will be reduced to the same extent the original bid(after negotiation, if any) has been quoted viz-a-viz justified rates.

- G. In compliance of Engineering Department of circular No. D/471/EE(P)-III dated 22.02.06 1% (onepercent) labour cess is to be deducted from contractor on total cost of work order. For deducting one percent cess a weight age of one percent on composite value of the work is to be added while working out the justification of rates.
- H. Interim bills/Final Bill along with measurements and requisite documents should be submitted by the contractor duly certifying the work which has been carried out along with photographs at different stages of work. For execution of hidden items, the Contractor will submit prior information to the Engineer-In-Charge one working day in advance, before its covering. The Work is also required to be inspected by Third party agency for quality assurance/ auditing as per standing instructions/circulars and payment to bill will be made accordingly.
- I. The bill/measurement submitted by the contractor should be scrutinized by the Engineer-In-Charge and be recorded in the measurement book and thereafter, the bill should be passed.
- J. In addition to the above, it is also stated that, with regard to delayed payments to contractors, the directions issued by the Planning Department vide Circular No. D/EE(P)-IV/MCD/2025-26/D-01 dated 15.07.2025 shall be strictly complied with.

List of Acceptable Makes

S. n	Name of Item	Acceptable Makes in MCD
1	FRLS PVC insulated Copper/ Aluminum conductor domestic wires.	Polycab, Havell's, Plaza, HPL, Finolex, GreatWhite, Skytone
2	LT Cables (Armoured/Unarmoured)	Skytone, Havells, Polycab, Grandlay, Finolex,
3	Submersible cable	L&T, CRI, BCH, Havell's, Finolex
4	Modularswitch/Socket/Coverplate/ G.I Boxes	Anchor, Roma, NorthWest, Crabtree, Legrand, GreatWhite, Cona
5	MCB, Isolator, DB	Havell's, Standard, L & T, Legrand, Siemen's, ABB ,C&S Schneider
6	T-5 lamp	Phillips, Havell's, Bajaj, Crompton,Halonix, Surya, Polycab
7	LED fixtures	Fiem,Crompton,Bajaj,Phillips,Surya,Prima-NX, Polycab Halonix, Bhargo, Havells, Osram, GE, orient electric, Mayfair, Kalingia Illumination (KI Kalingia)
8	Polygonal/MS Pole	BPP, Utkarsh, Aster, PE, Bajaj, Skipper,ADP,Premier Polemax
9	Decorative /Ornamental Pole/ Fittings	Hilite,Luster,Havells,Homedec,Phillips,Bajaj,Lord Jyoti, Twinkle, Mayfair, Orient Electric, USHA (TISVA)
10	MCCB	L&T,Havells,Legrand,ABB,Seimens,C&S,Standard, Schneider
11	Main switch/ Changeover	L&T,Havells,Legrand,ABB,Seimens,C&S,Standard, Schneider
12	MS Casing Pipe/GI Pipe	Jindal, Tata, Surya, Prakash
13	PVC Pipe	Finolex, AKG, Setia, Plaza , Astral, Jain pipes, AKG ,BEC
14	Steel conduit	AKG, BEC
15	PVC conduit	Setia, AKG, Astral, BEC, Plaza
16	Ceiling fans/Wall fan/Ex.Fan	Crompton, Havells, Bajaj, USHA, Orient, Halonix,-Zephyr
17	Submersible/Monoblock Pump	Crompton, KSB, CRI, L&T, BCH, Havells, C&S, Johnson
18	Cubical control panel for pump	BCH, CRI, Crompton, KSB, L&T, Havells, C&S, Johnson
19	Portable Fire Extinguishers	Minimex, Lifeguard, Omex, Safex
20	Fan Condenser	Tibcon, USHA, Havells
21	T5 Lamp, T5 Choke,36/40Watt Lamp,36/40Watt Electronic Ballast	Philips,Crompton, Bajaj, Havells, Surya

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22	Indicating Instruments	AEE, L&T, Siemens
23	DWC-HDPE Pipe	Rex, Duraline, CPE, Gemini, Mastodon
24	Battery	Exide, Microtek, Luminous, Okaya, Amron
25	Phenolic Laminated Sheet	Hylem, Formica, Phillips
26	Air Conditioner (min. 3 star rating)	Voltas, Bluestar, LG (Cat. B), OGeneral, Hitachi, Carrier (Cat. A), Godrej, Panasonic (Cat. B)
27	Stabilizer	Voltas, Blue bird, Microtek, Luminous
28	Invertor	Luminous, Sukam, Microteck
29	Telephone Wire /Cat-6	Skytone, Finolex, Delton, Skyline, D-Link, Legrand, AMP
30	Battery Charger	Mahamai, Emertech, Logicstat, Stactcon
31	Pole Box	Sintex, Boxmann, APC, EPP, Stanlec, Shi
32	Water Cooler/Water filter and Purifier/RO	Eureka FORBE, KENT, HINDUSTAN, UNILEVER, LIVPURE, Usha, Voltas, Blue Star
33	PVC Casing Pipe	Phenolex, Ujala, Setia, Surya, AKG, BEC
34	LT Panels/ Feeder Pillars	Manufactured by CPRI approved


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