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SPEED POST/ REGISTERED/AD

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81948/MAP/PH-II/PKG- 28/ /E8
M/s.....

Feb 2011

CA NO : DG MAP/PHASE-II/PKG-28/MUMBAI(ARMY)/26 OF 2010-2011: CONSTRUCTION OF DWELLING UNITS INCLUDING ALLIED SERVICES FOR OFFRs/ORs AT MUMBAI(ARMY)

Dear Sir(s)

- 1 Reference tender document for the above subject work issued vide this office letter No. 81948/MAP/PH-II/PKG-28/34/E8 dated 13 Dec 2010 and Telegram issued vide letter No 81948/MAP/PH-II/PKG-28/43/E8 dated 10 Jan 2011.
- 2 The following amendments are hereby made to the tender documents issued vide above referred letter:-

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
1	1	(a) Content page	Existing serial page No 01 is here by canceled and replaced with revised serial page No 01 (R)
2	2	(a) Name of work – Wherever occur in the tender documents	For “ CONSTRUCTION OF DWELLING UNITS INCLUDING ALLIED SERVICES FOR OFFICER; JCOS/ORs AT MUMBAI (ARMY)” Read” CONSTRUCTION OF DWELLING UNITS INCLUDING ALLIED SERVICES FOR OFFICER/ORs AT MUMBAI (ARMY)”
3	7	(a) SI No 4(a) Line 4	For “Six” Read “Four”
		(b) Srl No 4(d) Line 2	For “Five” Read “Four”
4	12	(a) Note 3 Heading	For “Phase 1” Read “(a) Phase 1”
		(b) SI No 3 Description Line 7	For : "sanitry" Read : "sanitary"
5	13	(a) Note Line 1	For : "nine" Read : "eight"
		(b) Notes (i) Line 1	For : "phase I & II" Read : "phase I,II & III"
		(c) Line 3	For : "six" Read : "nine"
6	14	(a) Note 5 (d) Line 1	For “Soil” Read “Cast iron Soil and”
		(b) Note 5 (d) Line 4	Delete the words “anti syphonage pipes ”
		(c) Note 5 (d) Line 6	For : "failing" Read : "falling"
		(d) Note 5 (d) Line 7	After the word ‘drawings’ insert as under :- “Connection of all first manholes around each block by SGSW 150mm dia pipe with proper slope culminating into one manhole at rear of the block”.
		(e) Note 5 (e) Line 1	For : "sheveles" Read : "shelves"
		(f) Note 5 (e) Line 4	For : "sector" Read : "scooter"
		(g) Note 5 (f) Line 7	For : "II to XI" "Read: II to XIV"

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1	2	3	4
		(h) Note 5 (h) Line 1	For : "labbies" Read : "lobbies"
		(i) Note 5 (k)	For "AC exhaust fan etc" Read "AC exhaust fan and chimney opening (in Kitchen of Officers DUs) etc"
		(j) Note 5 (m) Line 1	For : "finisheds" Read : "finishes"
7	15	(a) Note 7 Line 1	For : "absed" Read : "based"
		(b) Note 8 Line 1	For : "pillnbg" Read : "piling"
		(c) Note 8 Line 2	For : "shall be" Read : "shall be of"
8	16	(d) Note 11 (h)	For : "Fire Fighting" Read : "Fire Fighting System"
		(e) Note 11 (m)	For : "Pile Foundation" Read : "Piling Works"
		(c) Note No 15	Add new note 15A after the existing Note 15 as under:- "15.A The Lump sum quoted by tenderer in schedule 'A' section-I for each block shall include for three Tiles per DU, each of size and colour as provision in dwelling units. These tiles shall be provided in non-obtrusive space namely garage etc as directed by Project Manager"
9	17	(a) Note 16 (c)	For "Accepting Officer" Read "Project Manager. However, decision of Accepting Officer in this regard shall be final and binding"
		(b) Note 18, Line 4	For : "6x6" Read : " 6"x6" "
		(c) Note 18, Line 8	For "bv lock" Read "block"
		(d) Note 18, Line 12	For "befoe" Read "before"
		(e) Note18, Line 17	For: "garbage bins" Read "garbage bins and garages"
10	18	(a) Note 20, Line 1	For : "Colab" Read : "Colaba"
		(b) Note 22, Line 3	After the word 'work' insert as under :- "and photographing records of all stage of progress of work in photo Albums"
		(c) Note 22 (ii),(vii),(ix) and (x)	Delete in "toto" and insert "BLANK"
11	19	(a) Note 25 Line 3	For "PM/DEPMC office "Read" office of PM/DEPMC"s
		(b) Note 29 Line 3	Insert after the word 'manner' as under :- "The contractor shall barricade his entire work site and labour camp by cladding with required entry and exist"
12	21	(a) Note 42, Line-1	For "shll be cast "Read" shall be casted"
		(b) Note 42, (iii),(iv),(vi) and (vii)	Delete in "toto" and insert "BLANK"
		(c) Note 42 (v)	For : "List pitsand" Read " Lift pits and"
		(d) Note 43, line 1-2	For: "officers,JCOs & Ors" Read: "officers & Ors"
		(e) Note 44, Line-1	For: "GCC" Read: "general condition of contract"
		(f) Note 44, Line-2	For "furnished temporary" Read "temporary"
13	22	(a) Note 47 Line 1	For : "Deput" Read : "Deputy "
14	23	(a) SI item 1 Column 2 Line 1	For : "storyed" Read : "storey "
		(b) SI item 1 Column 2 Line 4	For : "ground floor" Read : "stilt "
		(c) SI item 1 Column 2 Line 11 to 14	For : "includes all the works above piles including pile caps, connecting beams and above, including PCC below pile cap, excluding piling works at Colaba -01 Mumbai." Read : "including foundations all as specified and shown on drawings at Colaba -01 Mumbai "

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1	2	3	4
		(d) SI item 1 Column 2 Line 1	For : "storyed" Read : "storey "
		(e) SI item 2 Column 2 Line 2	For : "storyed" Read : "storey "
		(f) SI item 2 Column 2 Line 6	For : "staggging" Read : "staging "
		(f) SI item 3 Column 2 Line 2	For : "storyed" Read : "storey "
15	24	(a) Schedule- A, Section - I	Existing serial page No 24 is here by canceled and replaced with revised serial page No 24(R)
16	25	(a) SI item 8 Column 2 Line 4	For : "ground floor" Read : "stilt "
		(b) SI item 9 Column 2 Line 4	For : "ground floor" Read : "stilt "
17	26	(a) Schedule- A, Section - I	Existing serial page No 26 is here by canceled and replaced with revised serial page No 26(R)
18	27	(a) Schedule- A, Section - I	Existing serial page No 27 is here by canceled and replaced with revised serial page No 27 (R)
19	28	(a) Sec A, sec II Note 4, Line 1	For : "execution" Read : "excavation "
		(b) Sch A, SecII, Note 6	Delete into toto and insert as under:- "Excavation and earth work shall be measured and paid separately under Sec A" Sec IX"
20	29	(a) SI item 2, column 2, last line	For : "nutan" Read : "Nut &"
21	30	(a) SI item 13, column 2, line 1	For Cost iron "Read Cast iron"
		(b) SI item 16, column 2, line 2	For : "meter" Read: "water"
22	31	(a) SI item 17, column 2, line 1	For "Castd" Read "Casted"
		(b) Foot of page	For "Serial Page No" Read "Serial Page No 115 (R)"
23	32	(a) Sch A, sec III, Heading	For : "SECTION - II" Read : "SECTION - III "
		(b) Sch A section III, note 6	For: "Isolator" Read: "MCB's"
		(c) Sch A section III, note 16	Add a new note 17, after existing note 16 "17 Provide PVC pipe 40 mm dia with top bend with extension into each DU's from behind of the house terminating at bottom as directed by P.M."
24	33 & 53	(a) Internal Electrification Heading Line-2	Delete the word "(ARMY)"
25	33 & 34	(a) Item 1(c), 1(d), 1(f) and item 8(c), 8(d), 8(e) Column 2 Line 2	Add: "Conductor" in between 'copper' and 'earth wire'.
26	35	(a) Item 18 Column 2 Line 2	Add: 'Two' in between 'with' and '6 sq mm earth wire'
		(b) Item 19, 20, 21 Column 2 Line 1 and 2	Add: 'FRLS' in between 'stranded' and 'unsheathed'.
		(c) Item 20, line 3	For: "conductiors" Read: "conductors"
		(d) Item 20 Column 2 Line 2	Add: 'Two' in between 'with' and '4 sq mm earth wire'
27	36	(a) Schedule- A, Section - III	Existing serial page No 36 is here by canceled and replaced with revised serial page No 36(R)

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1	2	3	4
28	39	(a) Item 38 Column 2 (outgoing) (a)	For: "MCCB, 63 A, 4 pole" Read: "MCCB, 40 A, 4 pole'
29	40	(a) Item 39 Column 2 (outgoing) (a)	For: "MCCB, 63 A, 4 pole" Read: "MCCB, 40 A, 4 pole'
30	41	(a) Item 40 Column 2 (outgoing) (a)	For: "MCCB, 63 A, DP 10 KA, single phase, 230 V, 50 c/s AC supply 3 Nos' Read: "MCCB, 40A, 4 pole, 25 KA, 3 phase 415 volts 50 c/s AC - 3 Nos'
		(b) Item 41 Column 2 (outgoing) (a)	For: "MCB, 60/63 A, DP 10 KA Single Phase, 230 V' Read: "MCB, 40 A, DP 10 KA Single Phase, 230 V - 7 Nos'
31	42	(a) Item 42 Column 2 (outgoing) (a)	For: "MCB, 60/63 A, DP 10 KA Single Phase, 230 V Read: "MCB, 40 A, DP 10 KA Single Phase, 230 V AC- 6 Nos
32	43	(a) SI item 43 Column 2 Line 1	For : "for OR's (S+15) 58 DU's & (S+15) 58 DU's" Read : "for OR's (S+15) 59 DU's & (S+15) 58 DU's "
		(b) Item 43 Column 2 (outgoing) (a)	For: "MCB, 60/63 A, DP" Read: "MCB, 40 A, DP"
		(c) Item 44 Column 2 (outgoing) (a)	For: "MCB, 60/63 A, DP" Read: "MCB, 40 A, DP"
33	44	(a) Item 45 Column 2 (outgoing) (a)	For: "MCB, 60/63 A, DP" Read: "MCB, 40 A, DP"
34	45	(a) Item 46 Column 2 (outgoing) (b)	For: " qty 1 No" Read: " Qty 2 Nos"
		(b) Item 47 Column 2 (outgoing) (b)	For: " qty 1 No" Read: " Qty 2 Nos"
35	48	(a) Item 53, col 2, line 10	For: " 2 way" Read: "4 way"
		(b) Item 54, col 2 (outgoing)	For: " qty 4 Nos" Read: " Qty 2 Nos"
37	49	(a) Item 55 (i), Column 4	For: "Each" Read: "RM"
		(b) Item 55 (a), col 5	For: "5620" Read: "Qty 12050"
		(c) Item 55 (a), col 7	For: "11240" Read: "24100"
38	50	(a) Sch A, SecIII,	Existing serial page No 50 is here by canceled and replaced with revised serial page No 50(R)
39	51	(a) Item 58 & 59, col 2, line 4	Fro: "step" Read: "stepped"
40	52	(a) Item 68, col 2,	Delete: in last "with holder, capacitor etc"
41	53	(a) Sch A, SecIII,	Existing serial page No 53 is here by canceled and replaced with revised serial page No 53(R)
43	54	(a) Sch-A, Sec-IV, Note-3, Line-2	For " stacked at site for incorporation these shall be" Read "stacked"
		(b) Sch-A, Sec-IV, Note-4, Line-2	Delete the words " (site clearance)"
44	55	(a) Heading	For : "ROAD AND PATH" Read : "ROAD, PATH AND CULVERTS"

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1	2	3	4
		(b) SI item 2 Column 2 Last line	For : "150 mm thick." Read : "150 mm thick (Spread Thickness)."
		(c) SI item 4 Column 2	Delete in toto and insert as follows : "All as per item 3 above but second layer (7.5 cm compected thickness)"
		(d) SI item 5 Column 2 Line 4	For : "comber and gratient" Read : "camber and gradient"
		(e) SI item 6 Column 2 Line 2	For : "sweping" Read : "sweeping"
		(f) SI item 6 Column 2 Line 3	For : "fanncing" Read : "fanning"
45	56	(a) SI item 8 Column 2 Line 4	For : "curyature" Read : "curvature"
		(b) SI item 8 Column 2 Line 6	For : "groovers" Read : "groves"
		(c) SI item 9 Column 2 Line 2	For : "pawar" Read : "paver"
		(d) SI item 9 Column 2 Line 3	For : "strons" Read : "strong"
		(e) Last Line	Insert Page No at last "115 R"
		(f) Total amount	For: "57,32,016.02" Read: "34,30,447.71"
47	57	(a) Note No 3	Delete the note in toto and insert as under: "The payment of earthwork shall be made under Schedule 'A' Section XIV."
48	58	(a) SI item 2 Column 2 Line 1	For : "precase" Read : "precast"
		(b) SI item 5 Column 2 Line 1	For : "ysing" Read : "using"
49	59	Foot of page	For 'Page No 115' Read 'Page No 115 'R'
50	61 & 62	(a) Sch A, Sec VI	Existing serial page No 61 & 62 are here by canceled and replaced with revised serial page No 61(R) & 62 (R)
51	63	(a) Heading	For : "SECTION - VI" Read : "SECTION - VII"
		(b) Note No 4 Line 1	For : "Sch-A Sec-XI" Read : "Sch-A Sec-XIV "
52	64	(a) Item 1, col 4	For: "Each" Read: "CUM"
		(b) Item 2 Column 2 Line 1	For: "Burnt clay brick" Read: "unreinforced precast concrete cable cover class HVP type 1 with peak size 300 mm x 180 mm x 40 mm"
		(c) Item 2, col 5	For: "Qty 2500" Read: "Qty 30000"
53	66	(a) Item 11 col 5	For: "Qty 10.50" Read: "Qty 20.50"
54	67	Item-15, Col-2,Line-6	For "Plate No-4" Read "Plate No-4-SSR Part-I"
		Item-17, Col-2,Line-4	Delete the words "below ground level"
	68	(a) Item. 19 Incoming (ii)	For: " 3-phae" Read: "3 phase"
		(a) Item 19 outgoing (a) line 3	For: "phac" Read: "phase"
		(b) Item 19 outgoing (a) (iii)	For: "PMN" Read: "PM"
		(d) Item 21 col 2, line 4	Delete: "ibn"
	70	(a) Sch A, Sec VII	Existing serial page No 70 is here by canceled and replaced with revised serial page No70 (R)
56	72	(a) Item 1 col 2	Add: In last "complete all as specified and directed by PM"

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1	2	3	4
		(b) Item 3 col 2 Line 2	For: "size75 x75 x25 m Read: "75 x 75 x 25 mm"
		(c) Item 5 col 2, line 11	For: "nlocking" Read: "locking"
		(d) Foot of page, line 1	For "Page No "Read" Page No-118"
		(e) Foot of page, line 2	Delete in toto
57	74 to 90	(a) Schedule- A, Section - IX	Existing serial page No 74 to 90 is here by canceled and replaced with revised serial page Nos74 (R) t0 90 (R)
58	92	(a) SI item 1 Column 5	For : "3." Read : "2"
		(b) SI item 1 Line 6	For: "2 meter per second" Read: "2.5 meter per second"
		(c) SI item 1 Line 14	For: "23tops" Read: "23 stops"
59	94	(a) SI item 2 Column 2 Line 2	For : "884 Kgs/13." Read : "544 Kgs/ 8"
		(b) SI item 2 Line 6	For: "2 meter per second" Read: "2.5 meter per second"
		(c) SI item 2 Column 5	For : "2" Read : "3"
60	98	(a) SI item 4 Column 2 Line 2	For : "884 Kgs/13." Read : "544 Kgs/ 8"
61	100	(a) Item 6, col 2, line 3	For: "25 sqmm" Read: "50 sqmm"
62	101	(a) Item 8, col 2, line 5	For: "CACA" Read: "CRCA"
		(b) Item 8 (b), col 2,	For: " Ka" Read: "KA"
		(c) Item 11 col 2 last line	Delete: "for fixing cable tray"
		(d) Last Line Column 2 to 8	For : "Total AmountPage No. " Read : "Total Amount of Schedule 'A' Section X carried over to General Summary on Serial Page No. 116 R"
63	103	(a) Item 1, col 2, last line	Add: "Control switch" in between 'lamp' and 'etc'.
		(b) Item 2, col 2	Delete description in 'toto' and insert as under : - "Supply and laying 3 core, copper conductor 2.5 sqmm armoured (heavy duty) PVC insulated 1.1 KV complete for aviation light".
		(c) Item 3 Col 2 Line 2	add in the last "including time switch 20 A rsting with contractor in steel enclosure complete".
		(d) Last Line Column 2 to 8	For : "Total AmountPage No. " Read : "Total Amount of Schedule 'A' Section XI carried over to General Summary on Serial Page No. 116 R"
64	104	(a) Heading	For : "SECTION - XIV" Read : "SECTION - XII"
65	105	(b) Cradle system Item 1(c), Col-2, Line-1	For "socket for _____" Read "Sockets for davits"
66	106	(a) Note	For : "multistored" Read : "multistoreyed"
		(b) Last Line Column 2 to 8	For : "Total AmountPage No. " Read : "Total Amount of Schedule 'A' Section XII carried over to General Summary on Serial Page No. 117 R"
67	108, 109 & 110	(a) Complete Pages	Page no 108, 109 & missing page 110 shall be replaced with new Page No 108 (R) , 109 (R) , & 110 (R)
68	112	(a) SI item 3, col. 2, line 3	For : "asspite" Read : "cesspits"
		(b) SI item 3, col. 2, line 5	For : "getting" Read : "getting out"
		(a) SI item 5, col. 2, line 1	For : "holes" Read : "holes each"
		(c) SI item 5, col. 2, line 3	(i) For : "adramming" Read : "and ramming" (ii) For : "braker" Read : "broken"
		(d) SI item 5, col. 2, line 4	For : "25 cum" Read : " 25 cm"
		(e) SI item 5, col. 2, line 5	(i) For : "returning" Read : "watering"

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1	2	3	4
			(ii) For : "special" Read : "spoil"

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			(iii) For: "9" Read: "a"
		(f) SI item 5, col. 2, line 6	For: "outn" Read: "and"
69	113	(a) SI item 6, col. 2, line 2	For : "remaining" Read: "ramming"
		(b) SI item 8 Column 2 Line 1	For : "embusement" Read : "embankment"
		(c) Line 2 & 3	For: "in exc 30 cum" Read: "not exc 30 cm"
		(a) Line 5	For : "1.5 cum" Read : "1.5 m"
		(d) SI item 9 Column 2 Line 1	For : "25" Read : "250"
		(e) Last Line Column 2 to 8	For : "Total AmountPage No. " Read : "Total Amount of Schedule 'A' Section XIV carried over to General Summary on Serial Page No. 117 R"
70	114	(a) Para-7 (a) Line-1 and 2	For "Sum of Rs_____ Rupees_____". Read "Sum of Rs 32,59,500.00 (Rupees thirty two lakhs fifty nine thousand and five hundred only)"
71	115 to 117	(a) General Summary	Page no 115 to 117 shall be replaced with new Page No 115 (R) , 116 (R) & 117 (R)
	118	(a) First line	For: "page No ____ Rs" Read: "Page No 117 (R) Rs"
72	120	(a) General Conditions of Contracts	Serial Page No 120 is hereby cancelled and replaced with revised serial Page No 120(R).
73	142		"Blank"
74	184	(a) 5A (a) Line 2 to 4	For : "Engineer-in-charge at his discretion, has right to issue the passes. Control their admission to the site of work or any part there of." Read : "The passes will be issued by "Stn cell HQ mumbai Sub Area" The contractor is required to submit ID proof, police verification and two photographs of individual, whom he want to engage at work site."
75	188	(a) para 15.3 Line 1	For appx 'B' Reed : appx 'C'
76	196	para 22.3	The details of Engineers engage should be as per location i.e.
		(a) Project manager	1 No
		(b) Graduate Engineer	02 per location (i.e. two each at colaba, kalina & Malad)
		(c) Elect. Engineer	1 No.
77	197	(a) Clause No. 26.1 Line 2	For : "kon" Read : "on"
		(b) Clause No.26.1, line 3	For : "approvd" Read : "approved"
78	198	(a) Special Condition 26.5	After the existing clause 26.5 insert clause 26.6, 26.7 and 26.8 as under :-

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			<p>“26.6 The contractor shall open a Bank Account specifically for this contract. The Mobilization Advance given to the contractor shall be deposited in this account only. The details of this account shall be made available to the Project Manager. The beneficiary of the interest generated in such account shall be the contractor only. The contractor shall draw from this account the expenses for the purpose of procurement of material, machinery, tools & plant and shuttering required for the said work only.</p>
			<p>26.7 The distribution of utilization of 15 percent mobilization advance is as under :-</p> <p>(a) Procurement of Material : 12%-15% (b) Procurement of Shuttering : 2% (Maximum) (c) Procurement of Machinery Tool & Plants : 1% (Maximum)</p>
			<p>26.8 The contractor shall submit statement of Bank Account details of advances paid to the vendors and value of material lying at site (governed by Condition 54 of General Condition of Contract.) along with each RAR. The Mobilization Advance will be utilized within a period of five months from the date of payment of the advance. The Project Manager may verify the correctness of bank statement of account, advance paid to the vendors etc. In case the mobilization advance is not being used for the purpose intended, DGMAP, in its absolute discretion may encash the bank guarantee (s) submitted against mobilization advance. The contractor shall have no claim of any compensation on account of such default made by him."</p>
		(b) Clause No.29 line 3 & 4	<p>For : "M/s Gherzi Eastern Limited, AB-16, 1st Floor Community Center, Safderjung Enclave New Delhi - 110029" Read : "M/s INTER TEK Architect & Consultants Pvt. Ltd. City Corner No. 1, Bungalow No. 3, Plot No. 109, Sector 29, Vashi, Navi Mumbai - 400703"</p>
		(c) At the end add a new Clause No. 30	<p>"Provision of Temporary Lift : The contractor shall provide one temporary passenger lift (6 person) for checking and inspection team of DG MAP/DEPMC in all high rise buildings, and safety code to safe guard human life shall be adhered to. "</p>
79	200	(a) Clause No.1.11.5 (iv)	Add: "(v) Fire Fighting work" after existing "(iv)"
80	201	(a) Clause No. 2 Line 2	For : "A- Section I to XVI" Read : "A- Section I to XIV"
81	202	(a) Clause No. 3.4 line 1	For : "(Soil" Read : "(Soft"
		(b) Clause No. 3.4 line 2	For : "1.5 Km" Read: "1.5 Km to 5 Km"
		(c) Clause No. 3.4	Add new clause 3.4 A after the existing clause 3.4 as under :-

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			"3.4 'A' FIXINFG OF BANCHMARK & GROUND LEVEL RECORDS :-
			At the time of handing over of site to the contractor a spot level sheet of each site shall be prepared to include the following:-
			(a) Benchmark: A BM shall be established depending upon on the vicinity of permanent structure as given below:-
			(i) Vicinity of Permanent structure. BM to be esablished near the permanent structure specifying the building No. and the cardinal direction of the corners where BM i.e.... Corner of Building No....
			(ii) Non Avaiability of Permanent structure. If permanent structure is not available in the vicinity, then a temporary BM linked to permanent structure shall be established near the site. It will have a PCC platform of at least 1.5 m x 1.5 m on which a pillar of 30 cm x 30 cm of required height shall be considered. It will not be destroyed/disturbed till the closure of the project, both physical and financial.
			(b) Marking to BM : It shall be 80mm x 80 mm and 3mm thick steel plate embedded in concrete. The BM reference number shall be engraved/ painted with red
			paint on white background and the BM details shall be documented accurately.
			(c) Grid Interval : The level sheet shall be prepared at an interval of minimum 3 mtrs. Square and shall be less as the gradient increases(at the discretion of PM).
			(d) Survey : Before start of the work at any site, a level sheet shall be prepared jointly after ground survey of the PM, DEPMC and contractor. Five copies shall be prepared in ink then signed by the Contractor, Consultant and the PM.
			(e) Checking : A team of offrs from HQ DGMAP may be detailed for surprise check of the records being maintained. In addition local Engineer Regiment/MES representatives may also be detailed to check the records of check carried out / maintained at site.
			(f) Distribution : One copy of each set of level prepared shall be kept in safe custody of PM, DEPMC Contractor Nodal Offr & Contact Section at HQ DG MAP.

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			(g) The level sheets shall be distributed immediately on completion of survey at a particular package site i.e. it shall be distributed immediately in parts on handing over of individual site and completion for full package will not be awaited.
			(h) A record of founding level of all structures and services shall be maintained in a separate register including works diary and signed by Contractor DEPMC and PM.
			(j)The record of formed up levies shall be maintained as mentioned above and jointly signed by DEPMC, Contractor and PM. The distribution will also be as per the spot level sheets mentioned above and will again be immediately carried out in parts on completion at individual sites.
			(k) The spot levels formed up levels and founding levels will be the basis of earth work calculation and valuation of deviation if any".
82	203	(a) Clause No. 3.7.6 Line 3	For : "para of MES standard" Read : "para 3.26 of MES standard"
83	205	(b) Clause No. 4.1.6 Line 4	For : "Project Manager" Read : "Contractor's Rep/DEPMC"
		(c) Clause No. 4.1.6 Line 5	For : "" (Appx B)" Read: "Appx (G)"
84	206	(a) Clause 7.2 line 1	For: "river sand" read: "river sand/crused stone dust"
85	207	(a) Clause No. 4.5.1 Line 3	For: "25 - 40" Read: "10 - 30"
		(b) Clause No. 4.7.1 Line 1	For : "M-30 and M-40" Read : "M-25 to M-50"
86	208	(a) Clause No. 4.7.4 Line 1	For : "M-30 and M-40" Read : "M-25 to M-50"
		(b) Clause No. 4.7.5 line 1 & 2	For : "M-30 and M-40 grade of concrete shall be 380 Kg/cum and 400 Kg/cum" Read : "M-25, M-30, M-40 & M-50 grade of concrete shall be 320 Kg/cum, 350 Kg/cum, 400 Kg/cum & 460 Kg/cum"
87	209	(a) Clause No. 4.9.6	Site laboratory - The frequency calibration of major equipment viz. compression testing should be laid down. Preferable frequency in routine should be one year and in case of unreliable result as directed by 'project manager'
		(b) Clause No. 4.9.6 (b)	For : "15cm x 15cm x 15cm - 12 Nos" Read : "15cm x 15cm x 15cm - 24 Nos"
		(c) Clause No. 4.9.6 (g)	For : "10 Kg to 0.001 gm accuracy" Read : "capacity 10 Kg of 1.0 gm accuracy"
		(d) Clause No. 4.9.6 (j)	For : "range 500C to 3000C" Read : "range 50 dg. C. to 300 dg. C"
		(e) Clause No. 4.9.6 (m)	For : "00C to 1000 C with accuracy of 10C" Read : "0 dg C to 100 dg C with accuracy of 1 dg C"
		(f) Clause 4.9.7,serial (r)	Insert new item (s) as under :-
			' (s) Total Station for siting & surveying and to install required scales equipment for all test of Bricks"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
89	217	(a) Clause no. 4.13	Delete in "Toto" and insert "20-25mm thick polished kota stone one edge moulded shall be provided in all cills including projected portion of JCO/OR DUs and 18mm thick marble stone one edge moulded shall be provided if Offrs Dus over 20mm thick screed in CM 1:4"
		(c) Clause No. 4.14.1 line 7 & 8	For : "The width of plinth protection irrespective of what is shown on drawings shall be 1500 mm" Read : " The width of plinth protection shall be as per drawing"
		(d) Clause No. 4.14.1 line 10 & 11	For : "Plinth protection shall be provided to all buildings irrespective of whether shown on drawings or not" Read : " The width of plinth protection shall be 1500 mm if not shown on drawing"
90	218	(a) Clause 4.17, Line 11	For: "RCC column " Read: "RCC column / Plinth beam"
		(b) Clause 4.18, Line 1	For: "shall consist of 75mm thick " Read: "shall be of size 600 x 600 mm and 75 mm thick"
		(c) Clause 4.19, Line 1 & 2	For: "in situations as shown on the drawings" Read: "whether shown on drawing or not"
91	219	(a) Clause No. 4.23, sub para 1, line 2	For: "showing in drawing" Read: " as per manufacturer's instructions and directed by project manager / consultant at site"
		(b) sub para 2, line 1	For: "UGWT and OHWT" Read: "over head water tank provided at roof"
		(c) sub para 3, line 1	For: "two water stop" Read: "water stop"
		(d) sub para 3, line 2	For: "engineer" Read: "project manager"
		(e) Clause No. 4.24	Delete in toto and insert : "blank"
		(f) Clause No. 4.25 line 1	For : "M-25,M-30 and M-40" Read : "M-25 to M-50"
92	220	(a) Sr. No. 5.3.2 Line 2	Add following line at end: "These bars shall be extended in to junction with adjoining wall/ columns for minimum length of 75 mm. Lap shall be 300 mm."
		(b) Add new clause 5.3.3 aftre 5.3.2	5.3.3 "For 100 mm thick PCC block wall more then 3 mtr in length, a vertical band size 100 x 100 mm shall be provided at max. 3 mtr c/c spacing. The vertical band shall be reinforced with four nos. 8 mm dia bars with 8 mm dia stirrups @ 100mm c/c. The vertical bars shall be anchored in slab/beams/lintle on top and bottom. Anchoring length should be minimum 200 mm."
		(c) Add new clause 5.3.4	5.3.4 " Two nos. 12 mm dia TMT bars shall be provided in RCC floor slab where 100 mm thick PCC block wall are supported them."

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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93	222	PS Clause 7.2.1 line 1	For: "hollock MS section 1.50 mm thic as" Read: "tubular steel section of size 35 mm x 25 mm and 1.6 mm thick pressed steel sheet, unless otherwise"
94	223	PS Clause 7.5, para 2 line 1 to 7	For : "Supplying and fixing 30 mm thickas approved by PM" Read : " (i) F.R.P. DOOR SHUTTER - 30 mm thick glass fiber reinforcement plastic (FRP) paneled door shutter made with fire-retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminatee for forming hollow rails and styles, with wooden frame and suitable blocks of seasoned wood inside at required places as shown in hte drawing given in Appx 'A' for fixing of fittings, along with MS tube frame of 19 gauge all around the styles and middle rail duly coated with steel pimer, cast monolithically with 5 mm thick FRP laminates for panels and conforming to IS: 14856 - 2000 including fixing to frames. The shade and colour shall be approved by PM. A 5 mm diameter hole will be provided as the top rail hinge side to enable the PM to check the thickness of the laminate. The vender from the door shutter / frame is purchased will make good by sealing the hole with FRP putty of the matching shade and colour."
95	224	(a) Clause No. 7.5	For: " MS stay" Read: " MS stay flat iron 25 mm x 3 mm"
96	224	(a) Clause No. 8.3	Add clause 8.3.1 after the clause 8.3 as under 8.3.1 Malleable cast iron helical door spring 150 mm size oxidized stove enameled finish shall be provided to wire, guage steel door shutter width up to 1000 mm and weight 100 Kg.
		(b) Clause No. 8.5	For: "Tie hanger of aluminium Read: "Tie hanger of Stainless steel pipe"
97	225	(a) Clause No. 8.19 (b)	For : " MCPO/CPO, Ldgs & below." Read : "Other than Officers accn."
98	226	(a) Clause No. 8.22.1 (ii) line 1 & 2	For: "attached on Appendix 'A' at page 408" Read: "as shown on drawing"
		(b) Clause No. 8.22.2 last line	For: "attached on Appendix 'A' at page 407" Read: "as shown on drawing"
		Clause No. 9.1 (a)	Insert at the end: Reinforcement steel: " Read FE500 TMT steel where ever wrieten FE415 in tender and drawings "
		(c) Clause No. 9.1(a) para 2 line 1	For: " centre" Read: " outer"
		(d) Clause No. 9.1(a) para 2 line 2	For: "fire" Read: "five"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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		(e) Clause 9.2 (a) line 2	For: "or secondary producers" Read: "and in case of non - availability from main producers shall be procured from secondary producers"
100	227	(a) Clause 9.2 (d) (i) line 4	For: "produced for" Read: "produced from"
		(b) Line 5	For: "without any adjustment of price" Read: "subject to minus price adjustment"
101	229	(a) Clause No. 9.7, line 2	Insert the following after the words, above 4th floor :- "Welded to 40 x 6 mm flat iron and fixed"
		(c) Clause No. 9.9 Heading	For : "MCPO/CPO, LDGS & BELOW" Read : "JCO's & OR's"
102	230	(a) Clause No. 9.9.11	Add a note at end of clause as follows: Note:- Drg No 200941/ARMY/GEN/AR-15 dated 06.01.2011 shall be followed for all high rise buildings i.e. 88 Dus, 59 Dus and 58 Dus at Colaba and Drg No 200941/ARMY/GEN/AR-02 dated 15.10.2010 shall be followed for all other low rise buildings.
		(b) Clause No. 9.9.13 Heading	For: "MS grill" Read: "Aluminium Grill"
		(c) Clause No. 9.9.13 line 1 & 2	Delete the lines and insert as under :
			All Aluminium windows / vent shall be provided with aluminium grill DG 104 (04/10 mm) of make DECO grills or equivalent fix to aluminium frame. As per details shown in drawing.
		(d) Clause No. 9.9.13	Add a new clause 9.9.14 as under :- "9.9.14 Irrespective shown on drawing or not, MS grill shall be provided in all balconies of high rise buildings up to roof level by provision of MS flat 20 x 6 mm @ spacing 150 mm c/c and MS flat 40 x 6mm frame all as directed by PM. There shall be provision for escape of fire hazard. Design shall be got approved from PM before execution."
103	231	(a) Clause No. 9.11.1	Add specifications as under -
			(A) Surface preparation - It is essential that the surface is prepared properly else the life of the paint will not be fully exploited. To ensure good quality surface preparation abrasive blast cleaning (sand grit or iron shot) will be done as per Swedish standard SIS 05-5900:1967
			(B) Primer Coat - Primer coat of average. Dry Film Thickness (DFT) 100-120 micron will be ensured. Epoxy ZN Ph Primer Lt Grey of equivalent will be used.
			(C) Intermediate Coat - Polyurethane based primer surface with average DFT 35-45 micron will be ensured. 1 KPU Primer Surface Grey or equivalent will be used.

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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			(D) Top Coat - The finish coat or top coat will be Polyurethane based with average DFT 35-40 micron. 2 KPU Finish coat or equivalent will be used.
104	231	(a) Clause No 9.14 Rolling shutter	Delete in toto and insert "blank"
	232	(a) Clause No 9.15.1 MS garage door	
		Line 1	For: "M.S. angle iron frames and M.S. flat" Read: "M.S. angle iron 30 x 30 x 4 mm and 40 x 4 mm MS Flat."
		Line 4	For: " SSR Part-I 2009" Read: "SSR 2009 (Part 1). Chowkhats shall be made out of 50 x 50 x 6 mm. Angle iron and fixed in wall with 4 Nos hold fast made to shape of 50 x 50 x 6 mm angle iron and door shutter shall be fixed to chowkhats with 4 Nos. Hinges welded. One No 300 mm long sliding bolt and one No 250 mm long barrel bolt shall be provided in each door."
105	232 & 233	(a) PS clause 10.2 (a),(b) & (c)	Delete: "in toto" and insert as under:- " (a) Clean the RCC slab surface including sides up to 300 mm high by wire brush, raking and cleaning of construction joints, if any.
			(b) Apply a coat of neat cement slurry admixed with approved integral liquid water proofing compound conforming to IS 2654 as per ,amufacture's recommendations over the RCC slab and sides up to 30 mm high.
			(c) Lay 20 mm thick layer of cement mortar of mix 1:4 (1 cement: 4 coarse sand) admix with approved liquid water proofing compound conforming to IS - 2645 and treating similarly the adjoining walls up to 300 mm height including of junctions of walls and slabs.
			(d) Lay a layer of broken bricks / brick bats (coba) 25 mm to 80 mm size with 50 % cement mortar 1:4 (1 cement : 4 coarse sand) admixed with approved integral liquid water proofing compound conforming to IS - 2645 to required slope.
			(e) Coving of radius 80 mm in cement concrete 1:2:4 admixed with integral liquid water proofing compound and finished with cement mortar 1:4 (1 cement : 4 coarse sand) admixed with approved integral liquid water proofing compound conforming to IS - 2645 is to be provided at the junction of horizontal surface & side walls.
			(f) After two days of curing apply second coat of cement slurry admixed with approved integral water proofing compound conforming to IS - 2645

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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			(g) Finish the surface with 30 mm thick jointless cement plaster 1:4 (1 cement : 4 coarse sand) admixed with approved integral liquid water proofing compound conforming to IS - 2645 including over the coving upto 300 mm height on side walls and finishing the surface with trowel with neat cement and making with 300 x 300 mm false square.
			(h) Average thickness of the above treatment shall be 125 mm and minimum thickness at khurras shall be 65 mm.
			(i) Khurra - Khurras shall be provided to all intel points of rain water pipes 450 x 450 mm with a minimum thickness of 65 mm in brick bat coba as described here in before in para (a) to (b) including rounding the edges and making finishing the outlet complete.
			(j) The proportion of approved intrgral liquid water proofing compound conforming to IS - 2645 to be used in respect of cement shall be as laid down by the manufacturer of the particular water proofing compound.
			(k) The whole treated portion shall be flooded with water for two weeks for curing and testing in case any leakage / seepage is noticed then the affected area shall be rectified and retested to the satisfaction of the project manager".
106	234	(a) PS clause 10.6	Delete in toto and insert as under:- "Whether it is shown or not, outlet pipes/spouts from all balconies shall be provided not less than 380 mm from outer face wall with 40 mm bore galvanized iron pipes light grade and connected to nearest iron water pipe with 75mm dia PVC pipes".
		(b) PS clause 10.7	Add new clause 10.7.1 as under:- "10.7.1 Irrespective of whether shown on drgs or not, parapit in roof of all blocks shall be provided with 100 mm thick RCC wall. 1.2 m high byusing 10 mm dia bars 150 C/C vertical and 8 mm dia @ 200 mm as distributions."
107	236	(a) PS Clause 11.5.1 line 1	For: "tiled" Read: "tiles"
108	237	(b) PS Clause 11.5.3 heading line	For: "MCPO/CPO/Ldgs & below" Read: " OR Dus"
		(c) PS Clause 11.5.5 heading line 1	For: "MCPO/CPO/Ldgs & below" Read: " OR"
		(d) PS Clause 11.5.9 line 2	For: "Out" Read: "out except core area on ground floor"
		(e) PS Clause 11.5.9	Add sub clause 11.5.9.1 as under:-

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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			"Irrespective of weather shoen in drawing or not all kota stone treads and risers shall be in one piece and three V shaped grooves shall be provided in treads of all stairs"
109	238	(a) PS Clause 11.5.10 heading line	For: "MCPO/CPO/Ldgs & below" Read: " OR"
		(b) PS Clause 11.5.11.3	For: "Z block" Read: "18 mm thick Ruby Red"
		(c) PS Clause 12.1.1.4, line 1	For: "brick walls" Read: "PCC block masonry"
110	239	(a) PS Clause 12.2.1, line 10	After word 'extra cost' Add "and sponge finish"
		(b) PS Clause 13.2.1 line 1	For: "MCPO/CPO/Ldys & below" Read: "and OR"
		(c) PS Clause 13.3, Heading	For: "DRY" Read: "OIL BOUND"
		(d) PS Clause 13.3, Line 1	For: "DRY" Read: "OIL BOUND"
111	241	(a) PS Clause 13.7 (a), (b), (c) & (d)	Delete "in toto" Add specification as under - " (a) Surface preperation - It is essential that the surface is prepared properly else the life of the paint will not be fully exploited, To ensure good quality surface preperation abrasive blast cleaning (sand grit or iron shot) will be done as per swedish standard IS 05-5900-1967.
			(b) Primer coat - Premier coat of average Dry film thickness (DFT 100 - 120 micron will be ensured. Epoxy ZN Ph primer Lt Grey or equivalent willll be used.
			(c) Intermediate coat - Polyurethane based premier surface with average DFT 35 - 45 micron will be ensured. 1 KPU premier surface grey or equivalent will be used.
			(d) Top coat - The finish coat or top coat will be polyurethane base with avg DFT 35 - 40 micron. 2 KPU Primer surface grey or equivalent will be used".
		(b) PS Clause 13.9, line 1	For: "finishing wall" Read: "Irrespective of what is shown in drg or specified elsewhere all external surface of bldg shall be finished"
		(c) PS Clause 14.2, line 3	After word 'windows' Add "except fixed glass and structural glass"
112	243	(a) PS Clause 15.1.4	Add a new sab para as under :- "Irrespective of what is shown on drg. (WC) water closets shall be of pedestal pattern vitreous china white in colour except for servent quarter which shall be of Anglo Indian type. Europeon type WC shall be wall mounted type for officers DU's in master bed room."
		(b) PS Clause 15.1.5 line 1	Delete "water closed Anglo Indian type shall be provided where shown on drgs.
		(c) PS Clause 15.1.5 line 3	For: " Hindustan sanitary ware" Read: "Hindware"
		(d) PS Clause 15.1.6 (a) line 2 & 3	For: " Hindustan sanitary ware" Read: "Hindware"
		(e) PS Clause 15.1.6 (a) line 4	For: "here in above" Read: "in Appendix E list of approved makes"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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		(f) PS Clause 15.1.6 (a) (i)	For: "Waste" Read: "Waste Fitting"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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		(g) PS Clause 15.1.6 (a) (v)	For: "Mirror of MCPO/CPO/Ldgs & below and mirror with cabinate for offrs" Read: "Mirror for OR and officers Dus as shown on drawing."
113	244	(h) PS Clause 15.1.7 (b) line 1 (a) PS Clause 15.1.8. 1 line 1	For: "MCPO/CPO/Ldgs & below" Read: " OR" For "size' Read " For OR size"
		(b) PS Clause 15.1.8. 1 line 2	For "600mm x 600mm" Read "600mm x 450mm"
		(c) PS Clause 15.1.8. 1	After the clause 15.1.8.1 insert new clause 15.1.8.2 "For Offrs mirror size 900mm x 600mm x 5mm thick shall be provided"
		(d) PS Clause 15.1.10 line 2	For: " Commander or equivalent brand & parry or cera or hindustan as" Read: "as specified in approved list of vender and."
		(e) PS Clause 15.1.12	Add new clause 15.1.13 after clause 15.1.12 as under :- Shower curtain rod:- (a) Shower curtain rod are to be fixed in two toilets of the Offrs DUs (b) Light weight GI pipes 20mm dia will be provided for shower curtain rod. Five plastic rings shall also be provided to each curtain rod.
		(f) PS Clause 15.2 line 3	After the word 'work' insert "All soil and waste pipes with rubber ring shall be type B pipes & vent pipes shall be type A marked ISI 13592
		(h) PS Clause 15.4.2	For " Stainless steel" Read " mild steel"
114	245	(a) PS Clause 15.4.2	Insert new clause 15.4.2.1 as under:- "RUNGS shall be provided in all plumbing shafts by using 16 mm dia MS bars 950 mm long made t0 shape and fixed in PCC blocks 1:2:4 @ 250 C/C"
		(b) PS Clause 15.4.3.2	Delete: " complete format" Add: as under -
		Sr. No.	Item
			Major & above OR
		1	Cupboard
		2	Peg set of 06
		3	Plate rack stainless steel size 750 x 600 x 250 mm (Sheet thickness 0.63 mm)
		4	Plate rack stainless steel size 900 x 750 x 250 mm (Sheet thickness 0.63 mm)
		4	Book shalf
		5	Shelves with glass sliding shutter
115	246	(a) Clause No. 15.4.3.3	Add new clause 15.4.3.3 as under :- Built in furnature shall be as per drawing and specification given in contract. In case not specified / shown in drg. The same shall be provided of teak wood and as directed by project manager."
		(c) Clause No. 15.4.4.2 Line 3 and 4	For " all as shown on drawings" Read. " irrespective of shown in the drawing or not in each Dus at place shown by PM."
116	247	(a) Clause 15.4.4.3	After the word " surface" insert sub para as under:-

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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			'Megnatic catcher of suitable size shall be provided to each cupboard , loft door as approved by PM"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
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		(b) PS Clause 15.4.4.4.1 line 4	After full stop add quarter No shall be written on each letter box with paint as directed by PM.
		(c) PS Clause 15.4.4.4.3	For: "perspect sheet" Read: "1.5 mm thick perspect sheet"
		(d) PS Clause 15.4.4.4.3	For: "as per Drg. No Typ-DD-NO-23" Read: "as shown on drawing"
		(e) PS Clause 15.4.4.4.4 line 2	For: "as per Drg. No Typ-DD-NO-29" Read: "as shown on drawing"
		(f) PS Clause 15.4.4.4.4 line 2	Delete: "and shall be ISI marked"
		(g) PS Clause 15.4.4.5 line 2	After word knobs' insert "The shutter shall be fixed to wooden frame of 50 x 50 mm size in 2nd class hard wood fixed to walls as required.
		(h) PS Clause 15.4.4.7 line 3	For: "1 mm" Read: "0.63 mm"
117	247	(a) PS Clause 15.4.4.8	After clause 15.4.4.8 add new clause 15.4.4.9
			<u>15.4.4.9 KITCHEN CABINETS</u> : Varius type of kitchen cabinets where shown on drawing shall be provided as per details given therein. Cabinet shutters shall be of 18 mm thick pre-laminated partical board exterior grade bounded with phenol formaldehyde synthetic resin conforming to IS-12823, having one side teak faced and other side having balancing white lamination. The make of partical board shall be as per list given in appendix 'E'. All shalves and partitions of cabinets shall also be of 18 mm thick pre laminated partical board. All edges of partical board shall be provided with 6 mm thick teak wood edging with width equal to the thickness of board fixed with water resistant adhesive. Shutters shall be fixed with stainless steel continuous piano hinges with chromium plated screws. All other fitting and fixtures shall be provided all as shown on drawing. All wooden surfaces except pre-laminated surfaces shall painted with 2 coat of synthetic enamil paint over a coat of promer after preperation of surface.
		(b) PS Clause 15.4.4.9	After existing 15.4.4.9 add new clause 15.4.4.10 as under:-
			"15.4.4.10 MANHOLE Manhole shall be built in PCC solid block in CM 1:4 all as shown on drg".
118	248	(a) PS Clause 16.2.4 line 1 & 2	For: "MAP phase 2 shall be as under." Read: "with crutch or kapston handle shall be as under in all DUs."
		(b) PS Clause 16.2.4 (c) line 2 & 3	Delete: Minimum flow is 22.0 litres/minute at 3.0 bar"
		(c) PS Clause 16.2.4 (d) line 2	For: " para (b)" Read: "para (b) above"
119	249	(a) PS Clause 16.2.4 (g)	For: "in toto" Read: "Blank"
		(b) PS Clause 16.2.4 (k) line 5 & 6	Delete: "beside thickness, the product should pass minimum 200 Hrs of SALT SPRAY test per EN 248 or CSAB 125."

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
120	251	(a) Clause No. 16.3.7 line 3	Add at the end: "Float valves shall have "electronic sensors"
		(b) Clause No 17 line 2	For "Engineer incharge" Read " Project Manager"
121	252	(a) Clause No 17.3.2 line 5	For "Engineer incharge" Read " Project Manager"
		(b) Clause No 17.4 line 1	For "Engineer incharge" Read " Project Manager"
122	253	(a) Clause No 17.5.3 line 2	For "Engineer incharge" Read " Project Manager"
		(b) Clause No 17.7.1 line 1	For "Engineer incharge" Read " Project Manager"
		(c) Clause No 17.7.2 line 3	For "Engineer incharge" Read " Project Manager"
123	254	(a) Clause No 17.8.4 line 4	For "Engineer incharge" Read " Project Manager"
		(b) Clause No 17.10.1 line 5	Delete line in 'toto' and insert "Project Manager"
124	255	(a) Clause No 17.11.3 line 1	For " Shpe" Read " Shape"
		(b) Clause No 17.11.5 line 2	For "Engineer incharge" Read " Project Manager"
		(c) Clause No 17.12.1 line 1	For "Engineer incharge" Read " Project Manager"
		(d) Clause No 17.12.1 line 3	For "Engineer incharge" Read " Project Manager"
		(e) Clause No 17.12.1 line 4	For "1 Contractor" Read " Contractor"
		(f) Clause No 17.12.1 line 5	For "Engineer incharge" Read " Project Manager"
		(g) Clause No 17.12.1 line 6	For: "owner" Read: "Govt"
		(h) Clause No 17.12.2 line 2	For " enclosed" Read " mentioned in clause"
		Clause No 17.12.2 line 3	For "as per the detail indicated in annexure B enclosed on completion of each pile installation pile"
		(i)	"Read "site details shall be completed on completion of each pile / installation pile to ascertain that the work executed is within permissible limit of ISI or not".
		(j) Clause No 17.13.1 line 5	For "Engineer incharge" Read " Project Manager"
		(k) Clause No 17.13.1 line 5 & 6	For "Engineer incharge" Read " Project Manager"
		(l) Clause No 17.13.1 line 6 & 7	For "Engineer incharge" Read " Project Manager"
		(m) Clause No 17.14 line 1	For "Engineer" Read " Project Manager"
		(n) Clause No 17.15 line 2	For "Engineer" Read " Project Manager"
125	257	(a) Clause No 17.20.1 line 4	For "Engineer incharge" Read " Project Manager"
		(b) Clause No 17.22.1 line 1	For "Engineer incharge" Read " Project Manager"
		(c) Clause No 17.22.4 & Clause No 17.22.5	Delete in "toto" and insert in "blank"
126	258	(a) Clause No 17.23.1 line 1	For: "50 mm & shall be" Read: "50 mm shall be"
		(b) Clause No 17.23.1 line 2	For: "form" Read: "from"
		(c) Clause No 17.24.1 line 1	For "Engineer incharge" Read " Project Manager"
		(d) Clause No 17.24.4 line 1	For: "whey" Read: " when"
		(e) Clause No 17.24.4 line 2	For: "the ground" Read: "from the ground"
		(f) Clause No 17.26.1 line 1	For: "fo" Read: "for"
		(g) Clause No 17.26.1 line 2	For: "an" Read: " and"
		(h) Clause No 17.26.1 line 3	For "Engineer incharge" Read " Project Manager"
127	259	(a) Clause No17.27.1(a) line 2	For "Engineer" Read " Project Manager"
		(b) Clause No 17.27.1(f) line 1	For: "Aluminium" Read: "minimum"
128	262	(a) Clause 18.3.1.2 line7 and whenever use in tender	For: "Engineer in charge/EIC/Engineer" Read: "Project manager"
129	264	(a) Clause 18.5.3.1	Add: "be suitable for medium mechanical stresses as per IS 9537 (part 1) between shall and conform".
		(b) Clause 18.5.3.1, line 1	Delete "may be threaded typeand" after the conduit"

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
130	272	(a) Clause 18.5.8.12 (c)	For: "palate" Read: "Plate"
131	282	(a) Clause 18.19 line 4	For: "IAFW - 404" Read: "IAFW - 1794"
132	287	(a) Clause 19.4, 19.4.1 & 19.4.2	Delete in "toto" and insert "Blank"
133	290	(a) PS Clause 19.7.1 line 1	For: "25 to 40" Read: "25 and 40"
134	295	(a) Clause 20.1 line 1	For: "sec A" Read: "schedule 'A' section V"
		Clause 22 line 1	
		(b)	For: "sec A section VII" Read: "schedule 'A' section XIV"
		(c) Clause 23 line 4	For: "Colaba" Read: "colaba, kalina and malad"
		(d) Clause 23 line 5 - 9	Delete in total and insert as under :- "confirmation mentioned in schedule A, section I
		(e) PS Clause 22.1 line 1	For: "Section - VII" Read: "Section - XIV"
135	296	(a) Clause 23.1	
		(b) sab para 5 line 3& 4	For: "(Discussed in following paragraphs)" Read "as mention in subsequent paragraphs"
		sab para 14 as foot of page, line 1	
		(c)	For: "8 percent" Read: "08 person"
136	299	(a) Clause 23.1	
		sab para 39 line 3	
		(b)	For: " including the final drawing" Read: "deemed to be included in the final drawings".
137	301	(a) Clause 23.8.2 sub para 1, line 1	For: " in his" Read: " in this"
138	314	(a) Clause for valve pit lin2	For: "with flash cement brick wall" Read: "constructed in PCC block masonry work"
139	322	(a) Clause 25.5.6	For: "1:2:4 (B2)" Read: "1:4:8 (D2)"
		(b) Clause 25.5.6 line 2	For: "fist" Read: "first"
		(c) Clause 25.6	For: "wttage" Read: "wattage"
140	324	(a) Clause 25.9.3 line 1	For: "VENDER" Read: "Contractor"
141	327	(a) Clause 26.1.1	Delete "item description (a) to (k) in toto." and Insert as under:- "(a) 2 Nos 13 passanger (884 kg) capacity lift with rated speed 2 meter per second to serve ground and 22 upper floors (ie total 23 storeys) having approximate total travel of 73.6 mtr, 23 stops & 23 opening (all openings on same side). (b) 3 Nos, 8 passanger (544 kg) capacity lift with rated speed 2 mtr per second to serve ground and 22 upper floors (ie total 23 storeys) having approximate total travel of 73.6 mtr, 23 stops & 23 opening (all openings on same side). (c) 2 Nos, 13 passanger (884 kg) capacity lift with rated speed 1.5 mtr per second to serve ground and 15 upper floors (ie total 16 storeys) having approximate total travel of 51.2 mtr, 16 stops & 16 opening (all openings on same side).

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
			(d) 4 Nos, 8 passanger (544 kg) capacity lift with rated speed 1.5 mtr per second to serve ground and 15 upper floors (ie total 16 storied) having approximate total travel of 51.2 mtr, 16 stops & 16 opening (all openings on same side).
142	344	Clause 27.6.3 (a)	After the existing clause 27.6.3, insert new clause 28 as under
			"28 Cradle System:- Cradle system (Façade access system) shall be provided of make cradle runways, uplift or equivalent approved make of façade access as give below:
			28.1 CRADLE Cradle system shall be of aluminum alloy with stainless steel enclosures, aluminium power reelers, synchronized weather proof, centralized control panel, bottom rod tie etc.
			28.2 WINCHES / HOISTS Winches / Hoists shall be imported from Belgium from larges hoist manufacturing company power climber having lifting capacity of 500 kg each comprising IP 55 weather proof construction with 6 in built safety features.
			28.3 SAFETY DEVICES This shall be imported and shall be used on secondary Rope and shall have 3 built safety features.
			28.4 POWER CRADLE Cradle shall have following importance features:- i. Ideally to suit for high rise buildings. ii. Cradle frame shall be of box section made of Aluminium alloy. iii. In case of power failure, manually operated arrangement shall be provided for easy descent. iv. Base of the cradle shall have aluminium tread flooring with toe boardand mesh panels wherever required with sufficient drainage system. v. Construction shall be fully welded bolted for safety. vi. Motorized reeler shall be provided for winding of primary and secondary wires.
			28.5 POWER WINCH CRADLE Power operated cradles shall be provided with two winches, two brakes and slung of two sides. They shall also have tow power operated reelers. They shall be used friendly complete for use by Window cleaners and should not require any operator.

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
			<p>28.6 OTHER IMPORTANT FEATURES OF CRADLE SYSTEM:</p> <p>i. Cradle will have four castors to easily transport and store.</p> <p>ii. World's most popular imported winches are provided with easy to use auto reset buttons.</p> <p>iii. Winches are provided with a laver for easy descent in case power failure.</p> <p>iv. The base of the cradle will have Aluminium Tread Flooring with toe board and must panel where required.</p> <p>v. Fully welded construction as a safety precaution. Power reelers are provided for winding of primary and secondary wires.</p>
			<p>vi. Brakes are provided with seClause secondary wires. The breaks are capable of taking 100% load.</p> <p>vii. Cradle is capable of carrying 250 kg.</p> <p>viii. Two pairs of suspension wires 8.3 mm dia, 6 x 19 constructions and galvanized for long life.</p> <p>ix. Cradle is first galvanized and then painted with Hammer tone finish.</p> <p>x. Fully PVC covered foam Buffering is provided in front and part of the sides at floor level. Buffering is provided in attractive Blue colour.</p> <p>xi. Overall dimension of 2300 mm x 700 mm from Buffering to Buffering.</p>
			<p>Wire ropes : Two Nos main suspension ropes two Nos secondary (safety) suspension rope. Size: 8.3mm, 6 x 19 galvanized factor of safety 1/8 (accordingly EN 1808 March 1999)</p> <p>Rope Reeling : Rope winding / unwinding onto power reelers fitted below the winches for both, main suspension and secondary safety wire. Torque limiters provided for slack free reeling.</p> <p>Controls : Central control in the cradle for traction hoist with IP55 protection, main switch, phase protection & push buttons.</p>

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
			<p>Safety Features:</p> <ol style="list-style-type: none"> 1) Fail-safe primary break positively locked with power switch on off position. 2) Independent secondary over speed break mounted on secondary safety wire. 3) Emergency descent at controlled speed in case of power failure by operating primary break lever. 4) Automatic trip device (fitted underside of cradle) to operate in case of cradle meeting obstruction during descent. 5) Upper limit switch 's to halt the ascent as per determined height. 6) Cradle fitted with safety harness anchorages. 7) Bottom trip bar with limit switches. 8) Emergency push buttons stop on control panel. 9) Toe Board to prevent dropping down of small tools. 10) Anti tilt device.
			<p>ALUMINIUM ALLOY PORTABLE JIBS (ROOF MOUNTED) IMPORTANT FEATURES FOR THE JIBS SHALL BE AS FOLLOWS:</p> <ol style="list-style-type: none"> 1 Constructed out of special Aluminium alloy. Light in weight but strong. 2 Easily erected by sliding them into portable tops fixed on the roofs. 3 Provided with pivoting safety stops to avoid accidental sliding back. 4 Front struts of the jibs are constructed out of all section to make jibs lightweight. 5 Bottom part of the struts is lined with wood. 6 Provided with Safety Harness Anchoring Point.
			<ul style="list-style-type: none"> . Jibs can be anchored at various point and levels around perimeter of the building. . Easily transferred from one location to another by two window cleaners. . They can be re-erected by in matter of seconds. . Pair of portable jibs shall be capable of carrying weight of Cradle plus 180 kg., which is two person weighing 70 kg each plus 40 kg additional loads. . Standard height shall be 1200 mm. But can be suited as per building required. . Dimension from Anchorage of cradle to centre point of strut should not exceed 1400 mm for power winches. . Dimension from Centre point of the strut to centre point of portable tops should be as far as possible be similar to dimension from Cradle Anchorage point to the centre line of strut.

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
			<p>Oversized dimensions are possible. However, the same shall require careful study by your specialized agency undertaking the work.</p> <p>HOLDING DOWN UNITS</p> <p>All roof equipment, be it Hot Dip galvanized tracks or Aluminium Alloy portable jibs, have to be Anchored to the Roof Slab or RCC Clausepet.</p>
			<p>Roof Anchorage units, also known as Holding Down Units.</p> <p>1 Shall comprise of Clausepet MS plates with stainless steel bolts and shall be cast in the roof slab / platforms made for the purpose. The units shall be supplied prior to the time of casting of the roof slab or RCC Clausepet walls.</p>
			<p>2 The anchorage units can be also welded to the Rebars in the roof slab or the RCC Clausepet walls. Once the units are anchored they are then covered with the RCC upstand and top of this stand shall be flashed with lead. This gives an ideal arrangement structurally and also permits proper waterproofing.</p>
			<p>3 The Anchorage units facilitate the rigging of roof equipment, and also require minimum maintenance and they give decades of trouble free performance.</p>
			<p>4 The stainless steel Anchor bolts are used to comply with European standard and the practice followed all around the world.</p>
			<p>5 One bolt out of every batch shall be tested to ensure highest degree of safety.</p>
			<p>"Alternatively the roof equipment can also be Anchored to the roof slab or RCC Clausepet using expandable stainless steel anchor bolts.</p> <p>Cradle system (façade access system) as give above shall be portable and functioned for all the multi-storied residential blocks given in the scope of this contract".</p>

SI No	Page No	Reference to Particular Clause, Note, Sub Note, Line etc	Erratas/Amendments
1	2	3	4
143	345	Right hand side, top corner	Below the serial page: Delete the word "Appx.-D"
144	346	Right hand side, top corner	Below the serial page: Delete the word "Appx.-E"
145	347	Left hand side, top corner	Below the serial page: Delete the word "Appx.-A"
146	348	Right hand side, top corner	Below the serial page: Delete the word "Appx.-B"
147	349	Right hand side, top corner	Below the serial page: Delete the word "Appx.-C"
148	360-371	Appendix E, Approve list of vender	Serial Page No 360 to 371 is hereby cancelled and replaced with revised serial Page No 360(R).to 371 (R)
149	397	(a) Heading line 2	For: "OR (S+3) 07 DWELLING UNITS" Read: "OR (S+3)"
		(b) Heading line 3	For : "ITEM NO 5" Read: 'ITEM NO 5 & 7"
150	399	Yard stick, Heading LINE 3	For: "Item No 6 & 7" Read: "Item No 6"
151	401	Yard stick, Heading line 2	For: "(S+16)" Read: "(S+15)"
152	416	Yard stick Heading line 2	For "ORs" Read " Major"
153	418 - 431	List of drawings	Serial Page No 418 to 431 are hereby cancelled and replaced with revised serial Page No 418(R).to 431 (R)

- 3 Revised pages 59 are enclosed herewith. These shall be considered and provisions there are taken into account for quoting the tender. All revised and cancelled pages be returned alongwith tender documents.
- 4 Revised 47 nos and additional 28 nos drawings are enclosed herewith. These drawings shall form part of tender documents and shall be considered and provision there are taken into account before quoting the tender.
- 5 The amendments along with the revised pages, additional pages, revised drawings and additional drawings shall form part of the tender documents and shall be returned dully signed along with tender.
- 6 Date of receipt of tenter has now been fixed at 1200 hrs on 16th Mar 2011

Enclosures: -

No of revised pages 59 Nos

No of revised drawings 47 Nos

No of additional drawings 28 Nos

(Signature of Contractor)

Your's Faithfully

SO-1 (Contract)
For: Accepting officer

**OFFICE OF THE DIRECTOR GENERAL
MARRIED ACCOMMODATION PROJECT
NEW DELHI – 110 011**

NAME OF WORK: CONSTRUCTION OF DWELLING UNITS INCLUDING ALLIED SERVICES FOR OFFICER/ORS AT MUMBAI (ARMY)

CONTENT

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1.	Contents Page	1R
2.	Tender forwarding letter including, instruction to tenderers	02 to 06
3.	Letter inviting Tender including its Appx 'A'	07 to 10
4.	Lump sum tender and contract for works required	11 to 23 24R, 25,26R, 27R, 28-35, 36R, 37-49, 50R,51,52, 53R, 54- 60, 61R, 62R, 63- 69, 70R, 71-73, 74R-90R, 91-107, 108R-110R, 111- 114, 115R- 117R,118,119
5.	General Conditions of Contracts including Annexure – 'A' to 'G'	120R, 121 to 181
6.	Schedule of Minimum fair wages	182
7.	Special Conditions of Contracts	183 to 198
8.	Particular specifications including Appendix 'A', 'B', 'C', 'D', 'E' 'F', 'G', 'H', 'J', 'K' & 'L'	199 to 359, 360R – 371R, 372 to 417
9.	List of Tender Drawings.	418R to 431R
10.	Errata and Ammendments	432 to
11.	Correspondence after receipt of tender	
12.	Acceptance Letter.	

Signature of the Contractor
Dated _____

for Accepting Officer

SCHEDULE "A", SECTION - I
LIST OF WORKS AND PRICES FOR BUILDING WORKS

SL No	DESCRIPTION OF BUILDINGS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE	AMOUNT	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
10	Construction of block of 13 Car garages for Major with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
11	Construction of block of 11 Car garages for Major with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
12	Construction of block of 22 Car garages for Major with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba Mumbai.		Each block	2	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
13	Construction of block of 8 Scooter garages for ORs with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba-03 Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
14	Construction of block of 22 Scooter garages for ORs with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba-02 Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - I
LIST OF WORKS AND PRICES FOR BUILDING WORKS**

SL No	DESCRIPTION OF BUILDINGS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE	AMOUNT	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
15	Construction of block of 21 Scooter garages for ORs with RCC framed structure including foundations, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba-02 Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
16	Construction of block of 11 Scooter garages for ORs with RCC framed structure including foundation, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba-03 Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
17	Construction of block of 23 Scooter garages for ORs with RCC framed structure including foundation, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Colaba-03 Mumbai.		Each block	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
18	Construction of garbage bin with plinth protection complete all as specified and shown on drawings. Reference (colaba-03, Malad-02, Kalina-02) Total -7		Each	7	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
19	Construction of block of 18 Scooter garages for ORs with RCC framed structure including foundation, RCC roof, RCC Shelves, ramps etc complete all as specified and shown on drawings at Kalina Mumbai.		Each		Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	Total carried over to General Summary on Serial page No:							

Signature of the Contractor
Dated

For Accepting Officer

DIRECTOR GENERAL MARRIED ACCOMMODATION PROJECT AT MUMBAI ARMY
LIST OF WORK & PRICES FOR INTERNAL ELECTRIFICATION (ARMY)

Schedule 'A' Section-III

Sr. No.	DESCRIPTION OF ITEMS	DWG NO/ REF TO SERIAL NO OF LIST OF DRAWINGS	UNIT	No Of Units Required	Rate per Unit (RS)	AMOUNT (RS.)	PERIOD OF COMPLE TION	REMARKS
23	Supply & fixing of 25mm Rigid Non-metallic PVC conduit exclusive of boxes {Junction/ Terminal} but inclusive of all Tees, Bends, Elbows, Reducer, Bell mouth tube ends, & all fixing accessories such as coupler, locks, nuts, saddles, pipe hooks, screws, fischers etc. complete as specified & as directed by the Project Manager.		RM	9455	23.38	221,057.90		
24	Supply & fixing of 40mm Rigid Non-metallic PVC conduit exclusive of boxes {Junction/ Terminal} but inclusive of all Tees, Bends, Elbows, Reducer, Bell mouth tube ends, & all fixing accessories such as coupler, locks, nuts, saddles, pipe hooks, screws, fischers etc. complete as specified & as directed by the Project Manager.		RM	3580	35.11	125,693.80		
25	Supply & fixing of 32mm Rigid Non-metallic PVC conduit exclusive of boxes {Junction/ Terminal} but inclusive of all Tees, Bends, Elbows, Reducer, Bell mouth tube ends, & all fixing accessories such as coupler, locks, nuts, saddles, pipe hooks, etc. complete as specified & as directed by the Project Manager.		RM	3064	26.17	80,184.88		
26	Supply & fixing of 20mm Rigid Non-metallic PVC conduit exclusive of boxes {Junction/ Terminal} but inclusive of all Tees, Bends, Elbows, Reducer, Bell mouth tube ends, & all fixing accessories such as coupler, locks, nuts, saddles, pipe hooks, etc. complete as specified & as directed by the Project Manager.		RM	5850	20.19	118,111.50		
27	M&S Junction box with cover, any number or types or outlets as ordered (25mm Dia)		EACH	550	22.21	12,215.50		
28	M&S Junction box (1-4 way) 40mm Dia)		EACH	150	29.22	4,383.00		
29	M&S Junction box (1-4 way) 32mm Dia)		EACH	210	26.17	5,495.70		
30	M&S Junction box (1-4 way) 20mm Dia)		EACH	500	19.85	9,925.00		

DIRECTOR GENERAL MARRIED ACCOMMODATION PROJECT AT MUMBAI ARMY
LIST OF WORK & PRICES FOR INTERNAL ELECTRIFICATION (ARMY)

Schedule 'A' Section-III

Sr. No.	DESCRIPTION OF ITEMS	DWG NO/ REF TO SERIAL NO OF LIST OF DRAWINGS	UNIT	No Of Units Required	Rate per Unit (RS)	AMOUNT (RS.)	PERIOD OF COMPLE TION	REMARKS
56	Supply, Installation, Testing & commissioning totally enclosed, Dust & Vermin proof (IP-54 Ingress Protection) low impedance compact sandwich type with Aluminium busbars rated for insulation voltage of 1.1KV having provision for tapping power as required & including the cost of all required accessories like clamps, elbows, end covers, flexible connections etc. & including the cost of providing 2- no's of 32mm x 6mm GI Earthing strips for body earthing & including the cost of Expansion joint complete on mounting hardware & fire proof barriers at each floor crossing as per specifications, as required & as following:							
	[1] 4 No's aluminium conductor (strips) 3Phase + 1 Neutral, 630A, 25KA, with 2 continuous earth GI strips of size 32mm x 6mm for Body Earthing.		RM	150	9500.00	1,425,000.00		
56(a)	Supply, fixing, testing & commissioning of 630A TPN Feed end box complete with incoming 630A TPN MCCB [35KA] & 415V shunt for coupling on rising main including cable entry box gland fixing complete, all as specified & directed by the Project Manager.		EACH	2	22000.00	44,000.00		
56(b)	Supply, fixing, testing & commissioning of 100A TPN TAP OFF Box complete with incoming 100A TPN MCCB [25KA], including cable entry boxes etc., complete, all as specified & directed by the Project Manager.		EACH	44	15000.00	660,000.00		
56(c)	End enclosure for 630A Aluminium rising Mains (IP-65)		EACH	1	3100.00	3,100.00		
56(d)	Spring Hanger		EACH	40	1600.00	64,000.00		

DIRECTOR GENERAL MARRIED ACCOMMODATION PROJECT AT MUMBAI ARMY
LIST OF WORK & PRICES FOR INTERNAL ELECTRIFICATION (ARMY)
Schedule 'A' Section-III

Sr. No.	DESCRIPTION OF ITEMS	DWG NO/ REF TO SERIAL NO OF LIST OF DRAWINGS	UNIT	No Of Units Required	Rate per Unit (RS)	AMOUNT (RS.)	PERIOD OF COMPLE TION	REMARKS
71	Supply and fixing of Bulk head fittings water tight with CFL Lamp of 15 watts & wire guard etc. complete all as specified.		EACH	50	279.00	13,950.00		
72	Supply and fixing of Lamp holder, insulated body with back plate, for batten fitting of CFL.		EACH	2190	20.82	45,595.80		
73	Supply and installation of storage type 25 ltrs, vertical geyser, including temperature control system having minimum four star rating as per beuro of Energy Efficiency Norms and complete with all fittings and accessories, outer body of geyser should be plastic & inner with stainless steel. 230 V, 50 c/s, AC supply & maximum 1000 watts,		EACH	417	2028.70	845,967.90		
74	Supply and fixing of Single pole & Neutral enclosure with a Two pin & Earth plug & socket complete with one single pole MCB 10Amps (For Geyser.)		EACH	727	298.08	216,704.16		
75	Supply, Erection, testing & commissioning of modular type Motor starter 20 A with back box, face plate etc complete as required for AC point. (Crabtree\North west\or equivalent)		EACH	214	198.90	42,564.60		
76	Numbering of all fans/ FreshAir Fans, Ceiling fans, Exhaust Fans, Wall mounted Fans, Geysers with enamel paint.		EACH	3168	10.00	31,680.00		
77	Supplying & fixing of Tubes, Light grade Galvanized with all fitting laid in trenches (80mm)		RM	210	231.74	48,665.40		
78	Supplying & fixing of Tubes, Light grade Galvanized with all fitting laid in trenches (100mm)		RM	50	337.72	16,886.00		
79	Supply & fixing 450 mm sweep exhaust fan with louvers including providing frame shutter and connecting up including proven of cable suitable size from contractor to fan complete.	-	EACH	3	1,650.00	4,950.00		

Total carried over to General Summary on serial page No. 115, Rs -

25,301,996.10

Schedule "A" SECTION - VI**LIST OF WORKS AND PRICES FOR FENCING , COMPOUND WALL AND GATES**

SI No	Description of items	Drg. No.	Unit	No. of Units Required	Rate Per Unit (Rs.)	Amount (Rs.)	Period of Completion after handing over of site.	Remark
1	2	3	4	5	6	7	8	9
1	M&L for PCC 1:4:8 Type D2 (40 mm graded aggregate) in foundations, filling and mass concrete all as specified.	Refer List of Drawings for all items of this schedule.	Cum	91	1414.59	128727.69	Refer note No. 3 on Page No. 12 & 13 for all items of this schedule	Refer note No. 3 on Page No. 12 & 22 for all items of this schedule
2	M & L for RCC M-25 grade concrete as in Foundations, including rafts, footings, foundation beams, plinth beams; bases for columns; etc; using 20 mm aggregate		Cum	5	2232.11	11160.55		
3	M & L for RCC M-25 as in Columns, pillars piers post and struts using 20 mm grade aggregate		Cum	5	2564.07	12820.35		
4	M & L Precase cement concrete block masonry with solid blocks type, CI 1:3:6, built in CM 1;4 complete all as specified.		Cum	467	2083.56	973022.52		
5	M & L for Formwork to sides of concrete foundation, footings, bases of columns for rough finished surfaces		Sqm	26	97.90	2545.40		
6	M & L for Formwork to sides of pillars, posts, struts, piers, columns & stanchions		Sqm	63	186.64	11758.32		
7	M&L for RCC 1 :2:4 Type B1 graded stone aggregate) in coping including necessary form work.		Cum	16	2461.95	39391.20		
8	M & L 15 mm thick rendering in CM 1:4 on brick/ concrete surfaces finished fair and even without using extra cement		Sqm	1560	71.56	111633.60		
9	M & L 10 mm thick rendering in CM 1:4 on brick/ concrete surfaces finished fair and even without using extra cement		Sqm	982	58.00	56956.00		
10	S&F 10 mm dia and over TMT steel bars, cut to length bent to shape required and binding with and including MS wire (annealed) not less than 0.9 mm dia		Kgs	242	32.20	7792.40		
11	Ditto but 8 mm dia TMT steel bars		Kgs	456	32.52	14829.12		
12	Ditto but 8 mm dia bars as in stirrups		Kgs	182	32.83	5975.06		

Schedule "A" SECTION - VI**LIST OF WORKS AND PRICES FOR FENCING , COMPOUND WALL AND GATES**

13	M & L for Framed work as in doors or gates of angle or other section with gusset plates, rails, braces, etc., complete, drilled for fixing of steel sheeting or other covering. Doors, etc. to be prepared for hanging or sliding with and including either hooks and hinges or steel hanging door fittings and hanging; also fastening and fixing complete using Fe-410 S	Kgs	1681	41.73	70148.13		
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Schedule "A" SECTION - VI**LIST OF WORKS AND PRICES FOR FENCING , COMPOUND WALL AND GATES**

1	2	3	4	5	6	7	8	9
14	S & F mild steel work in fencing post size 65x65x6mm angle iron including cutting to reqd shape as directed. Drilling holes, notching for wire etc. work confirming to Fe-410 -O or Fe 310-O etc including necessary cutting, welding etc all as specified.	Refer List of Drawings for all items of this schedule.	Kgs	5666	36.34	205902.44	Refer note No. 3 on Page No. 12 & 13 for all items of this schedule	Refer note No. 3 on Page No. 12 & 22 for all items of this schedule
15	S & F mild steel work as in bands, straps, hooks clamps, wall ties such as mild steel supporting bars for fencing, MS Flat iron for fixing of chain link fencing etc. confing to FE410-0 or FE 310-0.		Kg	2381	48.21	114788.01		
16	S/F PVC coated chain link fencing using 3.15 mm dia GI wire 50 x 50 mm mesh size as in cattle fencing.		Sqm	1005	500.00	502500.00		
17	S & F for barbed razor tape concertina coils 610 mm dia SG hot galvanised spring tensile wire manufactured by M/s Spl. Steel Ltd or M/s Super Force Engg. or M/s Global Fencing or other equivalent make approved.		RM	500	350.00	175000.00		
18	S & F galvanised 2 strand steel barbed wire 2.24mm dia barbed with 2mm dia barbs at 75mm spacing and straining and fixing to fencing post.		100 RM	27	441.41	11918.07		
19	M & L two coats of synthetic enamel painting over one coat of Red Oxide primer on new steel surfaces including prepration of surface.		Sqm	267	45.36	12111.12		
20	M & L applying two coats of Antifungal Acrylic Painting over one coat of acrylic primer including necessary preparation of surfaces		Sqm	1866	110	205260.00		
21	M/L PCC 1:4:8 type D-2 using 40 mm graded stone aggregate in fdn		Cum	10.80	1414.59	15277.57		
22	M/L R R Masonry brought up to courses in cm 1:6.		Cum	105.00	1155.08	121283.40		
23	Extra over stone walling for dressing with max depression 40 mm.		Sqm	100.00	47.56	4756.00		
24	M & L raised pointing to R R wall brought up to courses in 1:4		10 Sqm	10.00	459.69	4596.90		
25	M & L PCC 1:3: 6 type C-1 20 mm graded aggregate as in bed blocks and coping incl necessary form work.		Cum	2.40	2156.31	5175.14		
	TOTAL CARRIED OVER TO SUMAARY ON SERIAL PAGE NO.116 (R)				Rs.	2825336.00		

**SCHEDULE "A", SECTION - VII
LIST OF WORKS AND PRICES FOR STREET LIGHT**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
22(b)	Supply of foundation bolts manufactured from special steel alongwith nuts, washers, anchor plates & templates suitable for item No 22(a) above		No's	3.00	Rs. (Rupees----- ----- ----- only)	Rs. (Rupees----- ----- ----- -----only)		
22(c)	Supply & installation of Non integral flood light luminaries type BGEMF 22 R with 2 Nos 400 W SVT lamps & their control gear boxes.		No's	18.00	Rs. (Rupees----- ----- ----- -----only)	Rs. (Rupees----- ----- ----- -----only)		
22(d)	Supply, installation & commissioning of outdoor stand mounted feeder pillar with 636A TPN MCB as incomer, single dial time switch of 45A Triple pole type contractor for Automatic switching of luminaries power tool control with 2 Nos 9 A contractor & raise lower push button incoming 35 Sqmm & outgoing 16 & 25 Sqmm terminal.		No's	3.00	Rs. (Rupees----- ----- ----- only)	Rs. (Rupees----- ----- ----- -----only)		
23	Supply & fixing 40mm GI pipe light grade 1.2 M long partly in ground and partly alongwith the existing pole bending etc as required.		RM	220.00	Rs. (Rupees----- ----- ----- -----only)	Rs. (Rupees----- ----- ----- -----only)		
24	Numbering of street light pole with enamel paint complete all as specified		EACH	95.00	Rs. (Rupees----- ----- ----- -----only)	Rs. (Rupees----- ----- ----- -----only)		
Total Amount of schedule 'A' section VII carriad out to general summary on serial page No- 115								

Signature of the Contractor

Dated

For Accepting Office

SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
1	Fire Pump Electrical Motor Driven-1 for hydrant system & 1 for sprinkler system.		Each Set	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	Supply, installation, testing and commissioning of TAC approved electric motor driven Main fire Pump set suitable for automatic operation consisting of the following & as per specifications.							
	(a) Pump shall be of centrifugal multistage type, vertically split casing horizontal end suction, single stage with cast iron body, bronze impeller & wear ring, SS shaft & shaft sleeve directly driven by electrical motor as per N B C - 1983 for fire fight							
	(b) Squirrel cage, induction motor conform to IS:325 1978 suitable for operation at 415 V +/- 15% 3 phase, 50 + 5% Hz AC supply totally enclosed, fan cooled type & conforming to protection clause IP 55 as per IS:4691 & insulation class shall be F with tem							
	(c) Common base plate fabricated out of MS channel, coupling guard plain cement of RCC pump foundation and vibration pads gland packing gland drain line & Min, follow line with isolation valve pressure guage with SS U-tube, Y-tube suction strainer, Pr sw							

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	(d) Testing painting start-stop pressure setting shall be as per tender requirements, Pump-2280 lpm 95M Head Motor 100 Hp, 2900 RPM.							
2	Diesel engine driven pump		Each	1.00	Rs.	Rs.		
	Supply, installation, testing and commissioning of TAC approved Diesel Engine driven Fire Pump set suitable for automatic operation of the following & as per specifications.				(Rupees----- -----only)	(Rupees----- -----only)		
	(a) Pump shall be of centrifugal multistage type, vertically split casing horizontal end suction, single stage with sleeve directly driven by Diesel engine as per NBC 1983 fire fighting suitable for delivery of 2280 lpm 95M Head developing not less than							
	(b) The engine shall be cold starting type, multi cylinder, vertical 4 stroke cycle, water cooled conforming to BS:649/I: 1601/ IS:10002 developing suitable HP to drive the fire pump. The engine shall be capable to drive the pump at 150% rated discharge o							
	c) Engine shall be complete with automatic starting mechanical with electrical batteries, flywheel cooling system fuel oil system, LO system fuel services tank, filters, exhaust silencer, instrument panel etc.							

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	d) common base plate fabricated out of MS channel, coupling guard plain cement of RCC pump foundation anti vibration pads gland packing gland drain line & Min, follow line with isolation valve pressure guage with SS U-tube, Y-tube suction strainer, Pr sw							
3	Jockey Pump		Each Set	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	Supply, installation, testing and commissioning of TAC approved electric motor driven Main fire Pump set suitable for automatic operation consisting of the following & as per specifications.							
	(a) Pump shall be of centrifugal multistage type, vertically split casing horizontal end suction, single stage IP 55 enclosures with cast iron body, bronze impeller & wear ring, SS shaft & shaft sleeve directly driven by TEFC electrical motor as per N B C							
	(b) Squirrel cage, induction motor conform to IS:325 1978 suitable for operation at 415 V +/- 15% 3 phase, 50 + 5% Hz AC supply totally enclosed, fan cooled type & conforming to protection clause IP 55 as per IS:4691 & insulation class shall be F with tem							

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR STREET LIGHT**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	c) Connon base plate fabricated out of MS channel, couplling guard plain cement of RCC pump foundation anti vibration pads gland packing gland drain line & Min, follow line with isolation valve pressure guage with SS U-tube, Y-tube suction strainer, Pr sw							
4	Supply, installation testing and commissioning of cubical type control panel board fabricted from 2 mm thick MS sheet and angle iron frame work, spray painted for main fire pumps, jockey pump & Diesel Engine Driven pump. The panel shall be dust and vermin		Each	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	400 Amps MCCB 415 Volts, 35KA 4 pole switch - 1 No							
	500 Voltas 96 x96 mm Ammeter with selector							
	0-500 Amps, 96 x96 mm Ammeter with CTs and selector swith - 1No							
	Indicating lamps (LED type), their fuses, terminal blocks, puch buttons, controland selector switches etc as required - 3 Nos							
	Aluminium bus bars suitable for 500 Amps with supports for phase and neutral-1 set.							
	MCCB suitable ratings for each pump set including 1 No. spare for main pumps.							

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	Push button, starter ammeter for each pump set.							
	Indicating switch for auto manual operation (Each Pump) Each feeder of panel should be properly wired with PVC insulatd copper conductor 1.1KV voltage grade or appropriate size. the panle shall be complete in all respect.							
	MCB SPN 20 Amp (Spare) -1 No.							
	Engine section. Engine shut down and block out services due to fault or abnormalities as specified. Necessary visual / audio alarm indication and anunciater facility as required. Instruments, indicators lamps,fuses terminal blocks push buttons, conrol an							
	Control section control components integrating the various sections so as to satisfy the functional requirements							
	Battery charger unit with boost / trickle charge facility with voltmeter ammeter.							
5	Supply, installation & testing of MS/E RW heaving duty pipe (IS-1239 Part-I) 3589 Part-I 1974 heavy duty including cutting hreading welding etc bend, elbous reducers unions, flanges, GI nuts bolts washer, etc including all welding / fxing and excavation r							
	a) 200 mm dia		RM	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	a) 150 mm dia		RM	381.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	a) 100 mm dia		RM	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	a) 80 mm dia		RM	14.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
6	Supply, fixing, welding, testing and commissioning of ERW pipe (heavy duty) conforming to IS-1239 with required accessories and pipe fittings like flange, tee elbow, bend nipple, coupling, cap, reducer, union, flange joint, CAF insertion, nut bolt eye an							
	a) 200 mm dia pipe		RM	10.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b) 150 mm dia pipe		RM	180.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	c) 100 mm dia pipe		RM	115.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	d) 80 mm dia pipe		RM	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	e) 65 mm dia pipe		RM	24.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	f) 50 mm dia pipe		RM	657.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	g) 40 mm dia pipe		RM	198.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	h) 32 mm dia pipe		RM	348.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	j) 25 mm dia pipe		RM	846.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
7	Supply, fixing CI double flanged valves with companion flanges, non return valve including nut and bolt 1.5mm thick compression gasket with accompanying flanges.							
	a) 150 mm dia		Each	5.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b) 20 mmdia		each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
8	Supplying, fixing testing and commissioning of ISI marked cast ironh double flanged Butter Fly valve complete with companion flanges, pipe fittings, bolts nuts CAF gasket etc duly painted as per specification.							
	a) 200 mm dia		Each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b)150 mm dia		Each	5.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	c) 100 mm dia		Each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	d) 65 mm dia		each	15.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	e) 50 mm dia		Each	17.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
9	Supply, fixing, testing and commissioning of Air release valve brass body 32mm (gate valve) dia in riser with isolating valve.		Each	4.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

SCHEDULE "A", SECTION - IX

LIST OF WORKS AND PRICES FOR FIRE FIGHTING

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
10	Supply and fixing bolting, welding. Radiography testing painting and commissioning of hydrant valves single headed ISI marked 63 mm dia single headed landing valve CI hand wheel CAF gasket nuts, bolts, etc conforming to IS:5290-1977 type A for internal hyd		Each	16.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
11	Supply and fixing ISI marked 63mm dia male instantaneous inlet spray nozzle made of gun metal to IS:903 arrangement for straight stream spray, shut-off and trigger type handle as per specifications		Each	16.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
12	Supply and fixing fire fighting delivery hose, PRL Hose pipe 15M long 63 mm dia ISI marked, non-percolating, flexible, 3 layered synthetic jacketed with electrometric outer covering resistant to liquids, chemicals, acids, alkalis, solvents, abrasion & heat		Each	16.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
13	Supply and fixing ISI marked first aid fire hose reel conforming to IS:884-1985 comprise of reel hose guide, full swing drum fixing bracket, 20 mm bore 36 meters long high-pressurebraided rubber hose tubing conform to IS:1532-1969,25 mm dia ball valve, sta		Each	16.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

CA NO-DG MAP/PHASE-II/PKG-28/Mumbai(Army)/26 OF 2010-2011

SERIAL PAGE NO.

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
14	Supply, installation & testing of MS fire hose cabinet fabricated from 16 gauge MS sheet of fully welded construction with hinged double front door with locking arrangement, full glass door 4 mm thick approved by local fire authority, painted with one coat		Nos	16.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
15	Supply, Testing and commissioning pressure gauge (2 Nos), pressure switch (1 Nos), valves pipes and fittings etc.		Each set	6.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
16	M&L Earthing with GI earth plate 600 mm x 600mm x 6mm thick including accessories and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc with charcoal or coke and salt including providing and fixing 32 mm x 6 GI		Each set	4.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
17	Supply and installation weather proof hose cabinet of size 800 mm w x 1000 mm H, x 400 mm D for external yard hydrant fabricated out of 3mm thick MS sheet with 4 mm thick glazed glass door in front, having locking arrangement suitable to accommodate exte		each	4.00	Rs. (Rupees----- -----only)			

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
18	Supply and fixing four way fire brigade inlet with 150 NB with Butter fly valve with matching flanges and with glass front floor with 1 No Butter fly valve and 1 No non return valve complete all as specified.		each	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
19	Supply and fixing Two No's of 63 mm dia instantaneous inlet arrangement on 150mm dia leader, 2 Nos, 150 mm sluice valve-1 No, 150 mm non -return valve, fabricated out of SWG MS sheet with central opening with red enamel painting complete.		No's	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
20	Supplying & fixing self priming PVC tank of 700 litres capacity including pipe 25 mm dia GI for connection.		No's	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
21	Supply & fixing GI puddle flanges, site fabricated from class C pipes - of 1 mtr length.							
	a) 150 mm dia		RM	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b) 100 mm dia		RM	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
22	Coating and wrapping of underground pipes ISI Mark IWL make		RM	381.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
23	Excavation in trenches not exceeding 1.5m wide and not exceeding 1.5m in depth for foundation etc. or for shafts, wells, cesspits, manholes, per holes etc. not exceeding 10 sq.m on plan and not exceeding 1.5m in depth and getting out as in soft/ loose soil		Cum	140.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
24	Returning, filling, including spreading, levelling watering and well ramming in layers not exceeding 25cm		Cum	100.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
25	Removing excavated materials exc. 1.5m but not exceeding 5 Km and depositing where directed.		cum	15.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
26	Supply and fixing suction coupling for the fire brigade for drawal of water from tank with 100 mm Dia pipe and foot valve (pipe 8M long) complete all as specified.		Each	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
27	Supply and fixign suction coupling for the fire brigade fo drawal of water from tank with 150 mm dia pipe for foot valve (pipe 8 M long) complete all as specified.		each	1.00	Rs. (Rupees----- -----only)			

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
28	Supply and fixing 15 mm dia x 1.0 M high air vessel fabricated out of 8 mm thick MS sheet complete with dished top and bottom end. Air release valve tripod type stand, pressure gauge with ball valve, drain ball valve of 50mm dia with 2 or - lor g GI(H)		each	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
29	Supplying, installing testing & commissioning of conventional sprinkler quartzoid bulb type with 15mm screwed and connection of 68 deg.c.temp, rating K 80 & orifice shall be not be less than 6 mm sprinkler shall be UL listed & FM approved with chrome fins		each	504.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
30	Supply installing testing and commissioning of flow switch on sprinkler distribution on each floor and shall be connected to fire alarm panel through cable.							
	a) Dia 65 mm		each	15.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	a) Dia 50 mm		each	1.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
31	Supply installing testing and commissioning of flow switch on sprinkler distribution on each floor and shall be connected to fire alarm panel through cable.		each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
32	Supply installing testing and commissioning of flow switch on aprinkler distribution on each floor and shall be connected to fire alarm panel through cable.							
	a) Dia 80 mm		each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
33	Providing and constructing a masonry pit of internal dimension 1.0 x 1.0m x 1.0M depth of accommodate each of valves placed externally, wall to be of brick masonry in cement mortar 1:5 (1 cement : 5 fine sand) with SFRC medium duty 10 MT grade designati		Each	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
34	Supply and fixing CI body foot valve to be provided on suction line for each pumping sets of sizesas under:-							
	a) 150 mm dia		each	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b) 80 mm dia		each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
35	Supply and fixing "Y" stainer of CI body foot valve to be provided for suction line for each pumping sets of sizes as under:-							
	a) 150 mm dia		each	2.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
	b) 80 mm dia		each	0.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING**

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
	Fire Extinguisher					Rs.		
	Note: Rate shall be inclusive of clamps, hangers, installation and first charge etc.					Rs. (Rupees-----)		
36	Supply and fixing of DCP powder type (ABC) 5 kgs capacity - ISI mark first (IS:2171/13849, 14609)		each	31.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
37	Supply and fixing of Fire Extinguisher Mechanical foam (AFFF) Type 9 liters capacity (IS:10204)		each	62.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
38	Supply and fixing fire Extinguisher CO2 Type 5 kg Capacity (IS-2878)		each	31.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
Total Amount of schedule 'A' section IV carried out to general summary on serial page No-								

Signature of the Contractor
Dated

For Accepting Officer

SCHEDULE "A", SECTION - IX
LIST OF WORKS AND PRICES FOR FIRE FIGHTING

SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
39	FIRE ALARM SYSTEM : Supplying, installing, testing and commissioning of Main Panel of 15 Zones for fire alarm system with suitable sounder cards and fault isolaters mounted at Security Room having facility of fire indications. The panel wall mounted cabin		each	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
40	Supplying, installing, testing and commissioning of Main Panel of 15 Zones for fire alarm system with suitable sounder cards and fault isolaters mounted at Security Room having facility of fire indications. The panel wall mounted cabinet shall be made out		Each Set	1				
41	Supply, installation, testing and commissioning of dual tone electronic hooter housed in 16 SWG sheet steel enclosure finished in stove enamel PO red paint suitable for wall / ceiling mounted complete including connections etc as per tender		Each	34	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
42	Supply, installation, testing and commissioning of manual call point completely recessed (break glass unit) housed in existing 16 SWG sheet steel housing including Siemens / L & T push button switch (specing loaded action) with Normally cl		Each	34	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

SCHEDULE "A", SECTION - IX

LIST OF WORKS AND PRICES FOR STREET LIGHT								
SL No	DESCRIPTION OF ITEMS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRED	RATE (in Rs.)	AMOUNT (in Rs.)	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
43	Supply and drawing of 2.5 Sq. mm single core standard PVC insulated copper conductor cable conforming to IS: 694 (Part-1) in Rigid Steel conduit in recess / surface including terminations and connections etc as required, (rates for Rigid Steel		Rm	2300	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
44	Supply, fixing, testing and commissioning of Zonal panel to be installed at stilt area, except battery and battery charging system.		Each	1	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
45	Fire Detection Devices:- i) Supply and fix smok detector complete with base and other items require for fixing ceiling.		Each	64	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
46	Supply aand fix heat detcector complete with base and other items require for fixing.		Each	58	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
Total Amount of schedule 'A' section IV carriad out to general summary on serial page No-								

Signature of the Contractor**Dated**

**SCHEDULE "A", SECTION -XIII
LIST OF WORKS AND PRICES FOR PILING WORKS**

SL No	DESCRIPTION OF BUILDINGS	DRG No / REF TO SERIAL No OF LIST OF DRAWINGS	UNIT	No OF UNITS REQUIRE D	RATE	AMOUNT	PERIOD OF COMPLETION	REMARKS
1	2	3	4	5	6	7	8	9
1	Boring for bored cast in situ piles of the following nominal bores including all equipments, cost of bentonite, providing casing upto required depth depending on the soil, boring through soil other than hard Rock, and disposal of spoil to a distance upto 50 m using DMC method (direct mud circulation) all complete as per specification and drawings.	Refer List of drawings for all items of this schedule			Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)	Refer all Notes of Schedule 'A' on Serial Page No. 12 to 13 for all items of this Schedule	Refer all Notes of Schedule 'A' on Serial Page No. 12 to 19 for all items of this Schedule
(a)	600mm dia piles		RM	767.5	Rs. (Rupees----- only)	Rs. (Rupees----- only)		
(b)	800 mm dia piles		RM	426	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
2	TMT steel Reinforcement bars 10 mm dia and over cut to length, bent to shape required, including cranking, bending spirally for hooping for piles for making pile reinforcement cage, hooking ends and binding with and including mild steel wire (annealed) not less than 0.9 mm dia or securing with clips quality conforming to and including providing proper cover blocks as per shape and size as specified and shown in drawings, including necessary welding reinforcement bars complete.		Kg	39,600.00	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

**SCHEDULE "A", SECTION -XIII
LIST OF WORKS AND PRICES FOR PILING WORKS**

1	2	3	4	5	6	7	8	9
3	TMT steel reinforcement bars 6 mm dia and over upto and including 10mm dia in stirrups, spacers and binders, cut to length, bent to shape required, for making pile reinforcement cage, hooking ends and binding with and including mild steel wire (annealed) not less than 0.9 mm		Kg	2850	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
4	Providing concrete M - 40 Grade for cast in situ bored piles as per mix designs with a provision related to cement content as specified in IS-456- -2000, each of load as per design and of specified diameter as directed, placed through steel shell sunk to the required depth through all strata except rock, excluding provision of reinforcement, including placing concrete by tremie arrangement, compaction of concrete and withdrawal of shell including chipping, dressing of RCC piles cleaning the reinforcement etc complete..		Cum	431.31	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
5	Chipping and dressing of the RCC piles upto 0.60 metre including cleaning reinforcement and removal of dismantled materials etc for providing pile caps.		No	200	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
6	Chiselling through pile sheets in hard strata like boulders, soft and hard rocks including removing and stacking the loose materials etc complete and depositing of the unserviceable materials outside defence land complete.							
(a)	Beyond 550 mm and upto & including of 750 mm dia		Ring hours	1390	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
(b)	Beyond 750 mm and upto & including of 900 mm dia		Ring hours	1420	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

SCHEDULE "A", SECTION -XIII
LIST OF WORKS AND PRICES FOR PILING WORKS

1	2	3	4	5	6	7	8	9
7	Carrying out load test for 1.5 times the proposed safe working load on the pile in driven position for following dia including construction of test cap, use of accesseries and instruments including providing graphs as per IS code or std specifications and dismantling the cap etc and cleaning the site etc complete.							
(a)	600 mm dia piles		Each	28	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
(b)	800 mm dia piles		Each	15	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
8	Testing of pile for initial load test as per BIS specification for safe carrying capacity for the following dia of pipes.							
(a)	600 mm dia piles		Each	3	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		
(b)	800 mm dia piles		Each	2	Rs. (Rupees----- -----only)	Rs. (Rupees----- -----only)		

Total carried over to General Summary on Serial page No: 117 (R)

Signature of the Contractor
Dated

For Accepting Officer

6. The price worked out by the contractor for Fencing compound wall and gate works as listed in Schedule 'A' Section VI. Representing% percent (in Words)./ Rs.....
(Rupees.....
.....
.....
.....)
- *Above The Lump sum price of ₹.2825336.00 inserted
Below by the department in Schedule- 'A' Section-VI on serial Page No. 62(R)
7. The price worked out by the contractor for STREET LIGHT Schedule- 'A' Section-VII. Rs.....
(Rupees.....
.....
.....
.....)
- B/F from Serial Page No. 70(R)
8. The price worked out by the contractor for LIGHTING CONDUCTOR As listed in Schedule- 'A' Section-VIII. Rs.....
Representing% (Rupees.....
..... percent (in Words)./
.....
.....)
- *Above The Lump sum price of ₹.224371.39 inserted
Below by the department in Schedule- 'A' Section-VI on serial Page No. 72(R)
9. The price worked out by the contractor for FIRE FIGHTING SYSTEM Schedule- 'A' Section-IX. Rs.....
(Rupees.....
.....
.....
.....)
- B/F from Serial Page No. 90(R)
10. The price worked out by the contractor for LIFT works Schedule- 'A' Section-X. Rs.....
(Rupees.....
.....
.....
.....)
- B/F from Serial Page No. 101
11. The price worked out by the contractor for AVIATION LIGHT Schedule- 'A' Section- XI. Rs.....
(Rupees.....
.....
.....
.....)
- B/F from Serial Page No. 103

- 12. The price worked out by the contractor for CRADLE SYSTEM Schedule- 'A' Section-XII. Rs.....
(Rupees.....
B/F from Serial Page No. 106
.....
.....)

- 13. The price worked out by the contractor for Piling Work Schedule- 'A' Section-XIII. Rs.....
(Rupees.....
B/F from Serial Page No. 110 (R)
.....
.....)

- 14. The price worked out by the contractor for SITE CLEARANCE works as Listed in Schedule- 'A' Section-XIV. Rs.....
(Rupees.....
*Above Representing.....%
Below Percent (in Words).
The Lump sum price of Rs. 1235791.40 inserted by the department in Schedule- 'A' Section-XIV on serial Page No. 113)

* Delete whichever is not applicable

Total Carried Over to General Summary on Serial Page No. 118

Signature of Contractor

For Accepting Officer

LIST OF DRAWINGS FOR D.G.MAP (ARMY)

ARCHITECTURAL GENERAL DRAWINGS

Sr.No	DRAWING NO.	DATE	REV.DAT	DRAWING TITLE
253	200941/ARMY/GEN/AR-01	10/15/2010	---	SCHEDULE AND DETAILS OF DOORS.
254	200941/ARMY/GEN/AR-02	10/15/2010	---	SCHEDULE AND DETAILS OF WINDOWS..
255	200941/ARMY/GEN/AR-03	10/15/2010	---	SCHEDULE OF FINISHES.
256	200941/ARMY/GEN/AR-04	10/15/2010	---	MISCELLANEOUS DETAILS SHEET 1 OF 4
257	200941/ARMY/GEN/AR-05	10/15/2010	---	MISCELLANEOUS DETAILS SHEET 2 OF 4
258	200941/ARMY/GEN/AR-06	10/15/2010	---	MISCELLANEOUS DETAILS SHEET 3 OF 4
259	200941/ARMY/GEN/AR-07	10/15/2010	---	MISCELLANEOUS DETAILS SHEET 4 OF 4
260	200941/ARMY/GEN/AR-08	10/15/2010	---	GARBAGE DETAIL
261	200941/ARMY/GEN/AR-09	10/15/2010	---	PERGOLA DETAILS
262	200941/ARMY/GEN/AR-10	10/15/2010	---	CUPBOARD DETAIL
263	200941/ARMY/GEN/AR-11	10/15/2010	---	SHELVES & STUDY ALCOVE DETAIL
264	200941/ARMY/GEN/AR-12	10/15/2010	---	MANHOLE DETAIL
265	200941/ARMY/GEN/AR-13	10/15/2010	---	PUMP ROOM
266	200941/ARMY/GEN/AR-14	10/15/2010	---	SUBSTATION - PLAN SECTION AND ELEVATION