

<b>PRICE BID FORMAT ABSTRACT OF COST</b>				
<b>PROJECT : RAILWAY ELECTRIFICATION BIRLANAGAR-ETAWAH 386 KM/440TKM PROJECT</b>				
Name of Work : "Construction of Railway Staff Quarters with Electrification of Quarters" for "Shikohabad-Farrukhabad including Mainpuri-Etawah", Allahabad Division (GR.241)"				
Sl.No	Description	Weightage (%)	Amount (Rs)	Remark
1	Price for Civil Works -Section A	90.89	=90.89 x P	
2	Price for Electrical Works- Section B	9.11	=9.11 x P	
Total (A+B) =P= ( Bidder to be quote total amount i.e, P)				
Total (A+B) =P= ( Bidder to be quote total amount i.e, P) in words				

<b>Note:</b>	
1	Bidders should quote only the Total Amount both in figures & words in the specified place in "this "Abstract of Cost" sheet only. They should not fill/quote/write anything in col. (VII ) & (VIII) of Annexures 'A' & col. VI & VII of Annexure 'B' , i.e. BOQ sheets ofor "Civil Works, Section-A" and "Electrical Works, Section-B" . The bidder should also not quote at total place of Section-A & Section-B BOQ's attached in Ann. A & Ann. B. These rates & amount will be derived from the Total amount quoted and weightage factor assigned
2	Evaluation Shall be based on total amount quoted by bidder.
3	The rate and amount are inclusive of all applicable taxes, except for the GST. For details of taxes, clause no. 13.0 of the SCC will be applicable.
4	Details of BOQ items shall be read in conjunction with the corresponding specifications, drawings and other tender terms.

**ANNEXURE -A OF PRICE BID FORMAT**

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
1		<b>CARRIAGE OF MATERIALS</b>				Bidders not to quote or write anything here	Bidders not to quote or write anything here
2	1.1	Carriage of materials by mechanical transport including loading, unloading and stacking.					
3	1.1.2	Earth upto 2km	cum	370	<b>0.119639</b>		
4		<b>EARTHWORK</b>					
5	2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30cm in depth. 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead up to 50m and lift up to 1.5m, disposed earth to be leveled and neatly dressed.					
6	2.6.1	All kinds of Soil	cum	2898	<b>0.989995</b>		
7	2.7	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas (exceeding 30 cm in depth, 1.5m in width as well as 10 sqm on plan) including disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed as per direction of Engineer-in -charge.					
8	2.7.1	Ordinary rock	cum	721	<b>0.477363</b>		
9	2.7.3	Hard rock (Blasting prohibited)	cum	50	<b>0.095448</b>		
10	2.10	Excavating trenches of required width for pipes, cables, etc including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering, etc and disposing of surplus excavated soil as directed, within a lead of 50m.					
11	2.10.1.2	Pipes, cables etc. exceeding 80mm dia but not exceeding 300mm dia.	Metre	50	<b>0.034208</b>		
12	2.25	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50m and lift up to 1.5m in all kind of soil.	Cum	1237	<b>0.510399</b>		
13	2.26	Extra for every additional lift of 1.5 m or part thereof in excavation / banking excavated or stacked materials.					
14	2.26.1	all kinds of soil	cum	1031	<b>0.175086</b>		
15	2.26.2	Ordinary or hard rock	cum	258	<b>0.078567</b>		

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S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
16	2.27	Supplying and filling in plinth with Jamuna sand under floors, including watering, ramming, consolidating and dressing complete.	Cum	100	0.366885	Bidders not to quote or write anything here	
17	2.34	Supplying chemical emulsion in sealed containers including delivery as specified					
18	2.34.1	chlorpyriphos/ lindane emulsifiable concentrate of 20 %	litres	50	0.018865		
19	2.35	Diluting and injecting chemical emulsion for POST-CONSTRUCTIONAL anti-termite treatment (excluding the cost of chemical emulsion) :					
20	2.35.1	Along external wall where the apron is not provided using chemical emulsion @ 7.5 litres / sqm of the vertical surface of the substructure to a depth of 300 mm including excavation channel along the wall & rodding etc. complete:					
21	2.35.1.1	With Chlorpyriphos/ Lindane E.C. 20% with 1% concentration	metre	120	0.00637		
22		<b>CONCRETE WORK</b>					
23	4.1.5	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand : 6 graded stone aggregate 20 mm nominal size)	Cum	477	5.608519		
24	4.1.8	1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 20mm nominal size)	Cum	60	0.652557		
25	4.1.3	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)	Cum	60	0.765156		
26	4.1.4	1:2:4 (1 Cement : 2 coarse sand (zone-III) : 4 graded stone aggregate 40 mm nominal size).	Cum	274	3.43842		
27	4.10	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand (zone-III): 4 graded stone aggregate 12.5mm nominal size)	sqm	209	0.136589		
28	4.17	Making plinth protection 50 mm thick of cement concrete 1:3:6 ( 1 cement : 3 coarse sand and : 6 aggregate 20 mm nominal size ) over 75 mm bed by dry brick ballast 40 mm nominal size well rammed and consolidated and grouted with fine sand including finishing the top smooth.	sqm	600	0.692103	Bidders not to quote or write anything here	

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		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
29		<b>REINFORCED CEMENT CONCRETE CONCRETE WORK</b>					
30	5.9	Centering and shuttering including strutting, propping etc and removal of form for :					
31	5.9.1	Foundations, footings, bases of columns etc for mass concrete	Sqm	999	0.534551	Bidders not to quote or write anything here	Bidders not to quote or write anything here
32	5.9.3	Suspended floors, roofs, lanings balconies and access platform.	Sqm	120	0.156231		
33	5.9.4	Shelves (cast in situ)	Sqm	50	0.065096		
34	5.9.5	Lintels, beams plinth beams, girders, bressumers and cantilevers	Sqm	400	0.414818		
35	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Struts,	Sqm	400	0.551316		
36	5.9.7	Strair, except spiral-staircases	Sqm	60	0.070146		
37	5.9.9	arches , domes vaults upto 6m span	Sqm	30	0.096549		
38	5.9.15	Small lintels not exceeding 1.5m clear span, moulding as in cornices, window sills, string courses, bands,copings, bed plates, anchor blocks and the like.	Sqm	20	0.010702		
39	5.9.16	Edges of slabs and breaks in floors and walls					
40	5.9.16.1	under 20 cm wide	metre	22	0.00716		
41	5.9.19	Weather shade , chajja, corbels etc. including edges	sqm	22	0.031688		
42	5.22	Reinforcement for RCC work including straightening, cutting, bending, plancing in position and binding all complete.					
43	5.22.6	Thermo-Mechanically Treated bars of grade Fe-500D or more.	Kg	97370	15.271382		
44	5.33	Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.					
45	5.33.1	All works upto plinth level	cum	500	7.511595		

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S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
46		Providing and laying in position machine batched and machine mixed design mix M-25 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge.					
47	5.33.2	All works above plinth level upto floor V level	cum	500	8.829901		
48		<b>BRICK WORK</b>					
49	6.1	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in foundation and plinth in:					
50	6.1.1	Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	20	0.23956		
51	6.1.2	Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	298	3.446954		
52	6.4	Brick work with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level in all shanes and sizes					
53	6.4.2	Cement Mortar 1:6 (1 cement : 6 coarse sand)	Cum	657	9.3681		
54	6.13	Half Brick masonry with FPS bricks of class designation 75 in superstructure above plinth level up to floor V level.					
55	6.13.2	Cement mortar 1:4 (1 cement : 4 coarse sand)	Sqm	120	0.21012		
56	6.15	Extra for providing and placing in position 2 nos.6 mm dia M.S. bars at every third course of half brick masonry ( with F.P.S bricks )	sqm	120	0.018057		
57		<b>MARBLE &amp; GRANITE WORK</b>					
58	8.2	Providing and fixing 18 mm thick gang saw cut, mirror polished, premoulded and prepolished, machine cut for kitchen platforms, vanity counters, window sills, facias and similar locations of required size, approved shade, colour and texture laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand), joints treated with white cement,mixed with matching pigment, epoxy touch ups, including rubbing, curing,moulding and polishing to edges to give high gloss finish etc. completeat all levels.					
59	8.2.2	Granite of any colour and shade					
60	8.2.2.2	Area of slab over 0.50 sqm Sqm up to 1.0 Sqm.	Sqm	50	0.376425		

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**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION****Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
61	8.4	extra for fixing marble/ granite stone over and above corresponding basic item, in facia and drops of widths upto 150 mm with epoxy resin based adhesive includng cleaning etc. complete	Metre	50	0.040787		

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**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
62	8.5	Extra for providing opening of required size & shape for wash basins/kitchen sink in kitchen platform, vanity counters and similar location in marble/granite/stone work including necessary holes for pillar taps etc including rubbing and polishing of cut edges etc complete.	Each	24	0.033117		
<b>63</b>		<b>WOOD WORK</b>					
64	9.1	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in portion.					
<b>65</b>	9.1.1	second class teak wood	cum	1	0.244553		
66	9.5	providing and fixing panelled or panelled and glazed shutters for doors, windows and clerestory windows including ISI marked black enamelled M.S. butt hinges with necessary screws excluding panelling which will be paid for saperately.					
<b>67</b>	9.5.1	second class teak wood					
68	9.5.1.1	35 mm thick shutters	sqm	120	0.814533		
<b>69</b>	9.9	Providing and fixing glazed shutters for doors, windows and clerestory windows using 4mm thick float glass panes including black enamelled ISI marked M.S. butt hinges with necessary screws.					
70	9.9.1	Second class teak wood					
<b>71</b>	9.9.1.1	35 mm thick	sqm	120	0.981439		
72	9.12	Extra for providing frosted glass panes 4mm thick instead of ordinary glass panes 4 mm thick in doors, windows and clerestory window shutters. (Area of opening for glass panes excluding portion inside rebate shall be measured).	sqm	24	0.00965		
<b>73</b>	9.14	Extra for providing ISI marked Stainless Steel butt hinges instead of black enameled M.S. butt hinges with necessary screws (Shutter area to be measured).	sqm	120	0.028514		
74	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					
<b>75</b>	9.20.2	30 mm thick including ISI marked Stainless Steel butt hinges with necessary screws	Sqm	363	1.879572		
76	9.21	Providing and fixing ISI marked flush door shutters conforming to IS:2202 (Part 1) non decorative type, core of block board construction with frame of 1st class hard wood and well matched teak 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.					

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**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QAUTERS WITH ELECTRIFICATION****Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
77	9.21.1	35mm thick including ISI marked stainless steel butt hinges with necessary screws.	Sqm	121	0.428852		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
78	9.48	Providing and fixing M.S. grills of required pattern in frames of window etc. with M.s. flats, square or round bars etc all complete				Bidders not to quote or write anything here	Bidders not to quote or write anything here
79	9.48.1	Fixed to steel window by welding	kg	60	0.018631		
80	9.48	Providing and fixing M.S. grills of required pattern in frames of window etc. with M.s. flats, square or round bars etc all complete					
81	9.48.2	Fixed to openings/ wooden frames with rawl plugs, screws etc.	kg	60	0.020682		
82	9.74	Providing and fixing bright finished brass tower bolts ( barrel type ) with necessary screws etc. complete.					
83	9.74.1	250x10mm	each	90	0.063173		
84	9.74.3	150x10mm	each	30	0.013055		
85	9.74.4	100x10mm	each	30	0.008997		
86	9.81	Providing and fixing bright finished brass handles with screws etc. complete.					
87	9.81.1	125mm	each	90	0.034599		
88	9.81.3	75mm	each	30	0.008416		
89	9.82	P/F bright finished brass hanging type floor door stopperwith necessary screws etc. complete..	Each	15	0.003007		
90	9.97	Providing and fixing aluminium tower bolts ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc complete.					
91	9.97.2	250x10mm	each	90	0.017508		
92	9.97.4	150x10mm	each	30	0.004227		
93	9.100	Providing and fixing aluminium handles ISI marked anodised transparent or dyed to required colour or shade with necessary screws etc complete.					
94	9.100.1	125mm	each	90	0.010084		
95	9.101	P/F aluminium hanging floor door stopper ISI marked anodised ( anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete.					
96	9.101.2	Twin rubber stopper	Each	90	0.010491		
97		<b>STEEL WORK</b>					
98	10.2	Supply, Fabrication and erection of Structural steel work any kind of section riveted, bolted or welded in built up sections, trusses and framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer all complete:	kg	400	0.076455		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
99	10.6	Supplying and fixing rolling shutters of approved make, made of required size M.S. laths interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation complete including the cost of providing and fixing neccesary 27.5 cm long wire dprings grade No. 2 and M.S. top cover of required thickness for rolling shutters.					
100	10.6.2	80x 1.20 mm M.S. laths with 1.20 mm thick top cover	sqm	144	0.758413	Bidders not to quote or write anything here	Bidders not to quote or write anything here
101	10.7	Providing and fixing ball bearing for Rolling shutters	each	24	0.018929		
102	10.14	Providing and fixing presed steel door frames confirming to IS 435 manufactured from commercial mild steel sheet of 1.25 mm thickness including hinges jamb, lock jamb, bead and if required angle threshold of mild steel angle of section 50x25mm, or base ties of 1.25mm pressed mild steel welded or rigidly fixed together by mechanical means, adjustable lugs with split end tail to each jamb including steel butt hinges 2.5mm thick with mortar guards lock strikeplaste and shock absorbers as specified and applpying a coat of approved steel primer after pre treatment of the surface as directed by Engineer-in-charge.					
103	10.14.1.1	Profile B	metre	48	0.037655		
104	10.14.2.1	Profile C	metre	48	0.040068		
105	10.18	Providing and fixing circular/Hexagonal coast iron or M.s. sheet box for ceiling fan clamp of internal dia 140mm, 73mm height, top lid of 1.5mm thick M.s. sheet with its top surface hacked for proper bonding, top lid shall be screwed into the cast iron / M.s. sheet box by means of 3.3mm dia. round headed screws, one lock at the corners. Clamp shall be Made of 12mm dia M.S. bar bent to shape as per standard drawings.	Each	48	0.015531		
106	10.25	Steel work welded in built up sections/framed work including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.					
107	10.25.2	In gratings, frames guard bar, ladder railing, brackets, gates and similar works.	kg	2120	0.521684		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QAUTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
108	10.26	Providing and fixing hand rail of approved size by welding etc to steel ladder railing balcony railing and staircase railing including applying a priming coat of approved steel primer					
<b>109</b>	10.26.1	M.S. tube	Kg	240	<b>0.065665</b>		

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		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
110		<b>FLOORING</b>					
111	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level					
112	4.1.8	1:4:8 (1 Cement : 4 coarse sand (zone-III) : 8 graded stone aggregate 40 mm nominal size)	cum	185	<b>2.01205</b>		
113	11.21	Providing and fixing 10 mm thick acid and/or alkali resistant tiles of approved make and colour using acid and/or alkali resisting mortar bedding, and joints filled with acid and/or alkali resisting cement as per IS : 4457, complete as per the direction of Engineer-in-Charge					
114	11.21.1	In flooring on a bed of 10 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)					
115	11.21.1.1	Acid and alkali resistant tile	Sqm	199	<b>0.558877</b>		
116	11.21.2	In dado/skirting on 12 mm thick mortar 1:4 (1 acid proof cement : 4 coarse sand)					
117	11.21.2.1	Acid and alkali resistant tile	Sqm	188	<b>0.567782</b>		
118	11.36	Providing and fixing 1st quality ceramic glazed wall tiles conforming to Group B-III to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.: 200X300 mm	Sqm	20	<b>0.038709</b>		
119	11.40	Providing and laying rectified Glazed Ceramic floor tiles of size 300x300mm or more (thickness to be specified by the manufacturer), of 1st quality conforming to IS : 15622, of approved make, in all colours, shades, design and abrasion resistance class approved by the Engineer in - Charge in floors and landings laid on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand), jointing with grey cement slurry @ 3.3kg/sqm including pointing the joints with white cement and matching pigments etc., complete.	Sqm	146	<b>0.321081</b>		

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S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
120	11.41	Providing and laying vitrified floor tiles in different sizes (thickness to be specified by the manufacturer) with water absorption less than 0.08% and conforming to IS: 15622, of approved make, in all colours and shades,laid on 20mm thick cement mortar 1:4 (1 cement : 4 coarse sand),jointing with grey cement slurry @ 3.3kg/sqm including grouting the joints with white cement and matching pigments etc., complete.					
<b>121</b>	11.41.2	Size of Tile 600x600 mm	Sqm	1316	<b>3.709556</b>		
122	11.47	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints (Payment for grouting of joints to be made separately)					
<b>123</b>	11.47.2	Size of Tile 600x600 mm	Sqm	108	<b>0.351796</b>		
124		<b>ROOFING</b>					
<b>125</b>	12.16	10 cm thick (average) mud plaster or damped brick earth on roofs laid to slope consolidated and plastered with 25 mm thick mud mortar mixed with bhusa @ 35 kg per cum of earth and gobi leaping with mix 1:1 (1 clay : 1 cow dung) and covered with flat tile bricks, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement and finished neat.					
126	12.16.1	With common burnt clay F.P.S.(non modular) brick tile of class designation 10	Sqm	15	<b>0.023296</b>		
<b>127</b>	12.19	Providing and laying brick tiles over mumty roofs, grouted with cement mortar 1:3 (1 cement : 3 fine sand) mixed with 2% of integral water proofing compound by weight of cement, over 12 mm layer of cement mortar 1:3 (1 cement : 3 fine sand) and finished neat :					
128	12.19.1	With common burnt clay F.P.S. (non modular) brick tiles of class designation 10	Sqm	10	<b>0.009663</b>		

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to quote or write anything here

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
129	12.41	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion.				Bidders not	Bidders not
130	12.41.2	110 mm diameter	metre	72	0.041259		
131	12.42	Providing and fixing on wall face unplasticised-PVC moulded fittings/accessories for unplasticised-rigid PVC rain water pipes confirming to IS-13592 type-A including jointing with seal ring confirming to IS 5382 leaving 10 mm gap for thermal expansion.					
132	12.42.2.2	Single push fit coupler: 110 mm dia	each	48	0.009779		
133	12.42.5.2	Bend 87.5 degree:110 mm dia	each	15	0.003659		
134	12.42.6.2	Shoe plain:110 mm dia	each	15	0.003207		
135	12.43	Providing and fixing unplasticised PVC rain water clips of approved design to unplastisiced- PVC rain water pipe by means of 50x50x50 mmhard wood plugs, screwed with M.S. screws of requered length including cutting brick work and fixing in cement mortar 1:4 ( 1 cement : 4 Course sand) and making good the walls complete.					
136	12.43.2	110 mm	each	24	0.01302		
137	12.44	Providing and fixing to the inlet mouth of rain water pipe cast iron grating 15 cm diametre and weighing not less than 440 grams.	each	24	0.00213		
138		<b>FINISHING</b>					
139	13.2	15mm cement plaster on the rough side of single or half brick wall of mix:				Bidders not to quote or write anything here	Bidders not to quote or write anything here
140	13.2.2	1:6 ( 1 cement : 6 fine sand)	Sqm	7519	4.136394		
141	13.16	6mm cement plaster of mix:					
142	13.16.1	1:3 (1 cement : 3 fine sand)	Sqm	9173	3.917469		
143	13.26	Providing and applying plaster of paris putty of 2mm thickness over plastered surface to prepare the surface even and smooth complete.	Sqm	4519	1.669796		
144	13.37	White washing with lime to give an even shade.					
145	13.37.1	New work ( three or more coats. )	Sqm	9173	0.491867		
146	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade					

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
147	13.41.1	New work (2 or more coats) over and including priming coat with cement primer.	Sqm	9173	2.644331	Bidd	Bidd
148	13.43	Applying one coat of water thinnable cement primer of approved brand and manufacture on exterior wall surface :					
149	13.43.1	Water thinnable cement primer	Sqm	3418	0.385193		
150	13.44	Finishing Exterior walls with water proofing cement paint of required shade					
151	13.44.1	New work (Two or more coats applied @ 3.84 kg/10 sqm)	Sqm	3418	0.585851		
152	13.50	Applying Priming coat :				do quote or write anything here	do quote or write anything here
153	13.50.1	With ready mixed pink or Grey primer of approved brand and manufacture on wood work (hard and soft wood)	Sqm	60	0.006431		
154		<b>ROAD WORKS</b>					
155	16.1	Preparation & consolidation of sub grade with power road roller of 8 to 12 tonne capacity after excavating earth to an average of 22.5cm depth, dressing to camber and consolidating with road roller including making good the undulations etc. and re-rolling the sub grade and disposal of surplus earth lead upto 50 metres.	Sqm	1710	0.50353		
156	16.64	Providing and laying 75 mm thick compacted bed of dry brick aggregate of 40 mm thick nominal size including spreading, well ramming, consolidating and grouting with jamuna sand, including finishing smooth etc. complete as per direction of Engineer-in-charge.	Sqm	1710	0.567618		
157	16.16	Supplying and fixing turn buckles and straining bolts for barbed wire fencing.	each set	50	0.022416		
158	16.17	Fencing with R.C.C. post placed at required distance, embedded in cement concrete blocks, every 5th post, last but one end post and corner post shall be strutted on both sides and end post one side only, provided with horizontal lines and two diagonals of barbed wire weighing 9.38 kg per 100metres (minimum), between the two posts fitted and fixed with G.I. staples on wooden plugs or G.I. binding wire tied to 6 mm bar nibs fixed while casting the post (cost of R.C.C. posts, struts, earth work and concrete to be paid for separately) :- Payment to be made per metre cost of totallength of barbed wire used.					

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
159	16.17.1	With G.I. barbed wire	metre	200	0.00451	Bidders not t	Bidders not t
160		<b>SANITARY INSTALLATIONS</b>					
161	17.1	Providing and fixing water closet squatting pan (indian type W.C pan) with 100mm sand cast iron P or S tap, 10 litre low level white PVC flushing cistern with manually controlled device conforming to IS:7231 with all fittings and fixtures complete including cutting and making good the walls and floors wherever required:					
162	17.1.1	White vitreous china Orissa pattern WC pan of Size 580x440mm with flush pipe and integrated type foot rests:	Each	24	0.244427		
163	17.2	P/F white vitreous china pedestal type water closet ( European type W.C. Pan ) with seat and lid 10 litre low level white PVC flushing cistern with manually controlled device ( handle lever ) conforming to IS : 7231, with all fittings and fixtures complete including cutting and making good the walls and floors wherever required					
164	17.2.1	WC pan with ISI marked white solid plastic seat and lid	each	24	0.237189		
165	17.7	Providing and fixing wash basin with CI Brackets, 15mm CP brass pillars taps 32mm CP brass waste of standard pattern, including painting of fitting and brackets, cutting and making good the walls wherever require:					
166	17.7.2	White Vitreous china wash basin size 630x450mm with a single 15mm CP brass pillars tap	each	24	0.124042		
167	17.10	Providing and fixing stainless steel A ISI 304 (18/8) kitchen sink as per IS 13983 with CI brackets and stainless steel plug 40mm including painting of fittings and brackets, cutting and making good the walls wherever required :					
168	17.10.1	Kitchen sink with drain board					
169	17.10.1.3	510x 1040 mm bowl depth 200 mm	each	24	0.251758		
170	17.28	Providing and fixing PVC waste pipe for sink or wash basin including PVC waste fittings complete					

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
171	17.28.2	Flexible pipe				Bidders not to quote or write anything here	Bidders not to quote or write anything here
172	17.28.2.1	32mm dia	each	24	0.004558		
173	17.28.2.2	40mm dia	each	24	0.004558		
174	17.31	P/F 600 x 450 mm beveled edge mirror of superior glass of approved quality complete with 6 mm thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete.	each	24	0.057846		
175	17.35	Providing and fixing soil, waste and vent pipes					
176	17.35.1	100mm dia					
177	17.35.1.2	Centrifugally cast iron socketed pipe as per IS 3989	metre	72	0.147723		
178	17.37	Providing and fixing M.s. holder bat clamps of approved desing to sand cast iron/cst iron pipe embedded in and including cement concre blocks 10x10x10cm of 1:2:4 mix including cost of cutting holes and making goods the walls etc.:					
179	17.37.1	For 100 mm dia Pipe	Each	48	0.025919		
180	17.38	Providing and fixing bend of required degree with access door, insertion rubber washer 3mm thick, bolts and bnuts complete					
181	17.38.1	100mm				Bidders not to quote or write anything here	Bidders not to quote or write anything here
182	17.38.1.2	Sand cast iron S&S as per IS 3989	each	24	0.020814		
183	17.39	Providing and fixing plain bend of required degree					
184	17.39.1	100mm					
185	17.39.1.2	Sand cast iron S&S as per IS : 3989	each	24	0.017617		
186	17.4	providing and fixing heel rest sanitary bend					
187	17.40.1	100 mm dia					
188	17.40.1.1	sand cast iron S&S as per is -1729	each	24	0.022563		
189	17.48	Providing and fixing single unequal plain junction of required degree:					
190	17.48.1	100x 100x 75 mm					
191	17.48.1.1	sand cast iron S&S as per IS 1729	each	24	0.031429		
192	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3mm thick, bolts and nuts complete.				Bidders not to quote or write anything here	Bidders not to quote or write anything here
193	17.43.1	100x100x100mm					

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
194	17.43.1.2	Sand cast iron S&S as per IS 3989	each	24	0.032576	Bidders not to quote or write anything here	Bidders not to quote or write anything here
195	17.56	Providing and fixing terminal guard					
196	17.56.1	100mm					
197	17.56.1.2	Sand cast iron S&S as per IS 3989	each	24	0.017556		
198	17.57	Providing and fixing collar					
199	17.57.1	100mm					
200	17.57.1.2	Sand cast iron S&S as per IS 3989	each	24	0.01846		
201	17.58	Providing lead caulked joints to sand cast iron / centrifugally cast iron pipes and fitting of diameter					
202	17.58.1	100mm	each	24	0.021706		
203	17.6	Providing and fixing floor trap of self cleansing design with screwed down or hinged grating with or without vent arm complete, including cost of cutting and making good the walls and floors					
204	17.60.1	100mm inlet and 100mm outlet					
205	17.60.1.1	Sand cast iron S&S as per IS 3989	each	24	0.068193		
206		<b>WATER SUPPLY</b>					
207	18.11	Providing and fixing G.I. Pipes complete with G.I. fittings and clamps, i/c making good the walls etc. concealed pipe, including painting with anti corrosive bitumastic paint, cutting chases and making good the wall					
208	18.11.1	15mm dia nominal bore	metre	720	0.605392		
209	18.11.2	20mm dia nominal bore	metre	60	0.055691		
210	18.12	Providing and fixing GI pepes complete with GI fittings including trenching and refilling etc.					
211	18.12.2	20mm dia nominal bore	metre	250	0.133285		
212	18.15	Providing and fixing brass bib cock of approved quality :					
213	18.15.1	15mm nominal bore	each	96	0.054561		
214	18.16	P/F brass stop cock of approved quality					
215	18.16.1	15mm nominal bore	each	96	0.054561		
216	18.16.2	20mm nominal bore	each	10	0.006132		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
217	18.18	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete					
218	18.18.1	15 mm nominal bore	each	15	0.009544	Bidders not to quote or write anything here	Bidders not to quote or write anything here
219	18.21	P/F upsticised PVC connection pipe with brass unions					
220	18.21.2	45cm length					
221	18.21.2.1	15mm nominal bore	Each	48	0.007485		
222	18.22	Providing and fixing C.P. Brass shower rose with 15 or 20mm inlet:					
223	18.22.1	100mm diametre	each	30	0.008561		
224	18.33	Constructing masonry chamber 60 x 60 x 75 cm , inside with class 75 designation brick work in cement mortar 1:4 ( 1 cement : 4 coarse sand ) for sluice valve , with C.I surface box 100 mm Top, diameter 160 mm bottom diameter and 180 mm deep ( inside ) with chained lid and rcc top slab 1:2:4 mix ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) necessary excavation foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 ( 1 cement : 3 coarse sand ) 12mm thick finished with a floating coat of neat cement complete as per standard design					
225	18.33.1	with F.P.S bricks	each	24	0.418765		
226	18.34	Constructing masonry chamber 90 x 90 x 100 cm , inside with class 75 designation brick work in cement mortar 1:4 ( 1 cement : 4 coarse sand ) for sluice valve , with C.I surface box 100 mm Top, diameter 160 mm bottom diameter and 180 mm deep ( inside ) with chained lid and rcc top slab 1:2:4 mix ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) necessary excavation foundation concrete 1:5:10 ( 1 cement : 5 fine sand : 10 graded stone aggregate 40 mm nominal size ) and inside plastering with cement mortar 1:3 ( 1 cement : 3 coarse sand ) 12mm thick finished with a floating coat of neat cement complete as per standard design					
227	18.34.1	with F.P.S bricks	each	24	0.727404		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
228	18.41	Providing and filling sand of grading zone V					
229	18.41.2	20mm dia meter pipe	metre	220	0.05974		
230	18.46	Providing and fixing G.I. Union in G.I pipe including cutting and threading the pipe					
231	18.46.1	15mm nominal bore	each	240	0.106292		
232	18.46.2	20mm nominal bore	each	15	0.007359		
233	18.48	Providing and placing on terrace polyethylene water storage tank ISI : 12701 marked with cover and suitable locking arrangement and making necessary holes for inlet, outlet and over flow pipes but without fittings and the base support for tank					
234	18.48A	Circular tank	per litre	24000	0.396771		
235	18.54	Providing and fixing PTMT bib cock of approved quality and colour.					
236	18.54.1	15mm nominal bore, 86 mm long, weighing not less than 88 gms	each	48	0.010509		
237	18.65	providing and fixing PTMT soap dish holder having length of 138 mm, breadth 102 mm height 75 mm with concealed fitting arrangements, weighing not less than 1060gms	each	48	0.011767		
238	18.76	Cutting holes up to 30x30 cm in walls including making good the same:					
239	18.76.1	18.76.1 With common burnt clay F.P.S. (non modular) bricks	each	15	0.009221		
240		<b>DRAINAGE</b>					
241	19.1	Providing, laying and jointing glazed stoneware pipes grade A with stiff mixture of cement mortar in the proportion of 1:1 including testing of joints etc complete.					
242	19.1.1	100mm dia	metre	360	0.214412		
243	19.1.2	150 mm dia	metre	360	0.338273		
244	19.2	P/L cement concrete 1:5:10 all round SW pipes including bed concrete as per standard design.					
245	19.2.2	150 mm dia	metre	360	0.675697		
246	19.4	Providing and fixing square mouth SW gully trap grade A complete with CI grating brick masonry chamber with water tight CI cover with frame of 300x300mm size the weight of cover to be not less than 4.50kg and frame to be not less than 2.70kg as per standard design:					
247	19.4.1	100x100mm size P type					
248	19.4.1.1	With FPS bricks class designation 75	each	24	0.104011		

Bidders not to quote or write anything here

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**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
249	19.7	Constructing brick masonry manhole in cement mortar 1:4( 1 cement : 4 coarse sand ) RCC top slab with 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) mix foundation concrete 1:4:8 mix ( 1 cement : 4 coarse sand : 8 graded stone 40 mm nominal size ) :inside plastering 12mm thick with cement mortar 1:3 ( 1 cement : 3 coarse sand ) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 ( 1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size ) finished with a floating coat of neat cement complete as per standard design:				Bidders not to quote or write anything here	Bidders not to quote or write anything here
250	19.7.1	inside size 90 x 80 cm and 45 cm deep including C.I cover with frame ( light duty ) ,455 x 610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg ( weight of cover 23 kg and weight of frame 15 kg )					
251	19.7.1.1	With FPS bricks with class designation 75	each	24	0.491651		
252	19.7.2	inside size 120 x 90 cm and 90 cm deep including C.I cover with frame ( medium duty ) , 500 mm internal diameter, totalweight of cover and frame to be not less than 116 kg ( weight of cover 58 kg and weight of frame 58 kg ):					
253	19.7.2.1	With common burnt clay F.P.S. (non modular) bricks of class designation 7.5	each	24	1.034229		
254	19.19	Providing and fixing in position pre-cast R.C.C. manhole cover and frame of required shape and approved quality					
255	19.19.2.2	Circular shape 500 mm internal diameter	each	24	0.04669		
256		<b>WATER PROOFING</b>					
257	22.19	Providing and laying APP (Atactic Polypropylene Polymer) modified prefabricated five layer, 3 mm thick water proofing membrane, black finished reinforced with glass fibre matt consisting of a coat of bitumen primer for bitumen membrane @ 0.40 litre/sqm by the same membrane manufactured of density at 25°C, 0.87 - 0.89 kg/litre and viscocity 70 - 160 cps. Over the primer coat the layer of membrane shall be laid using butane torch and sealing all joints etc., and preparing the surface complete. The vital physical and chemical parameters of the membrane shall be as under : Joint strength in longitudinal and transverse direction at 23°C as 350/300 N/5 cm. Tear strength in longitudinal and transverse direction as 60/80N. Softening point of membrane not less than 150°C. Cold flexibility shall be upto -2°C when tested in accordance with ASTM, D - 5147. The laying of membrane shall be got done through the authorised applicator of the manufacturer of membrane :					
258	22.19.1	3 mm thick	Sqm	1024	0.986706		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
<b>259</b>		<b>RAIN WATER HARVESTING &amp; Bore well</b>					
260	23.1	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, plants & machineries required for the job, all complete as per irection of Engineer-in-charge, upto 90 metre depth below ground level.				Bidders not to quote or write anything here	Bidders not to quote or write anything here
<b>261</b>	23.1.1	All types of soil					
262	23.1.1.1	300 mm dia	metre	60	<b>0.057742</b>		
<b>263</b>	23.1.2	Rocky strata including Boulders					
264	23.1.2.1	300 mm dia	metre	80	<b>0.183827</b>		
<b>265</b>	23.2	Boring/drilling bore well of required dia for casing/strainer pipe, by suitable method prescribed in IS: 2800 (part I), including collecting samples from different strata, preparing and submitting strata chart/ bore log, including hire & running charges of all equipments, tools, lants & machineries required for the job, all complete as per irection of Engineer -in-charge, beyond 90 metre & upto 150 metre depth below ground level.					
266	23.2.1	All types of soil					
<b>267</b>	23.2.1.1	300 mm dia	metre	20	<b>0.022454</b>		
268	23.2.2	Rocky strata including Boulders					
<b>269</b>	23.2.2.1	300 mm dia	metre	20	<b>0.050719</b>		
270	23.3	Supplying, assembling, lowering and fixing in vertical position in bore well, unplasticized PVC medium well casing (CM) pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer -in-charge.					
<b>271</b>	23.3.3	200 mm nominal size dia	metre	120	<b>0.240311</b>		
272	23.4	Supplying, assembling, lowering and fixing in vertical position in bore well unplasticized PVC medium well screen (RMS) pipes with ribs, conforming to IS: 12818, including hire & labour charges, fittings & accessories etc. all complete, for all depths, as per direction of Engineer-in-charge.					
<b>273</b>	23.4.3	200 mm nominal size dia	metre	60	<b>0.128018</b>		
274	23.5	Supplying, filling, spreading & leveling stone boulders of size range 5 cm to 20 cm, in recharge pit, in the required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	9	<b>0.022428</b>		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
275	23.6	Supplying, filling, spreading & leveling gravels of size range 5 mm to 10 mm, in the recharge pit, over the existing layer of boulders, in required thickness, for all leads & lifts, all complete as per direction of Engineer-in-charge.	cum	15	0.037379	Bidders not to quote or write anything here	Bidders not to quote or write anything here
276	23.7	Supplying, filling, spreading & leveling coarse sand of size range 1.5 mm to 2 mm in recharge pit, in required thickness over gravel layer, for all leads & lifts, all complete as per direction of Engineer -incharge.	cum	19	0.047347		
277	23.8	Gravel packing in tubewell construction in accordance with IS: 4097, including providing gravel fine/ medium/ coarse, in required grading & sizes as per actual requirement, all complete as per direction of Engineer-in-charge	cum	15	0.042202		
278	23.12	Development of tube well in accordance with IS : 2800 (part I) and IS: 11189, to establish maximum rate of usable water yield without sand content (beyond permissible limit), with required capacity air compressor, running the compressor for required time till well is fully developed, measuring yield of well by "V" notch method or any other approved method, measuring static level & draw down etc. by step draw down method, collecting water samples & getting tested in approved laboratory, i/c disinfection of tubewell, all complete, including hire & labour charges of air compressor, tools & accessories etc., all as per requirement and direction of Engineer-in-charge.	hour	5	0.008055		
279	23.13	Providing and fixing suitable size threaded mild steel cap or spotwelded plate to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell of:					
280	23.13.1	100 mm dia	each	2	0.000713		
281	23.14	Providing and fixing M.S. clamp of required dia to the top of casing/ housing pipe of tubewell as per IS: 2800 (part I), including necessary bolts & nuts of required size complete.					
282	23.14.1	100 mm clamp	each	2	0.005295		

**BOQ AND WEIGHTAGE FOR PROPOSED CONSTRUCTION OF RAILWAY STAFF QUARTERS WITH ELECTRIFICATION**

**Section A : CIVIL WORKS : Shikohabad-Farrukhabad including Mainpuri-Etawah, Allahabad Division, Gr 241**

S.No.	DSR Item No	Staff Quarters, Rainwater Harvesting, Boundary Wall,Fencing and Approach Road	Section: Farukhabad-Shikohabad & Mainpuri-Etawah (Gr-241)				
		Description	Unit	Quantity	"Weightage %"	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII	VIII
283	23.15	Providing and fixing Bail plug/ Bottom plug of required dia to the bottom of pipe assembly of tubewell as per IS:2800 (part I).					
284	23.15.1	100 mm dia	each	2	0.000855		
285		<b>OTHER MISCELLANEOUS WORKS</b>					
286		Supplying and filling and Back filling CNS upto any depth under floors, around foundations, plinths etc. in layers not exceeding 250 mm thickness and compacted using vibratory roller so as to achieve at least 95% relative density as per IS-2720 (Part-XIV) including spreading, watering, ramming/compaction by manual / mechanical means, dressing, royalty (if any) etc. all complete.	Cum	508	1.042941		
		<b>Total Amount : Section A:</b>			<b>100.00</b>		

**Section B: Electrical Works :Mainpuri-Etawah Allahabad Section Gr-241**

S. No.	Description	Unit	Qty	Item Weightage (%)	Rate(Rs.)	Amount(Rs.)
I	II	III	IV	V	VI	VII
1	Supplying, installing, testing & commissioning 3 phase, 11/0.433 kV, 50 Hz., oil immersed and naturally cooled outdoor type, Copper wound transformer, delta/star connected with additional neutral brought out on load side, with standard accessories complete with test certificate with losses as per IS:1180 - 2014, energy efficiency level II, with necessary permissions of Electrical Inspector for following KVA ratings					
a	100 KVA	Nos.	1	6.8893		
b	63 KVA	Nos.	1	5.3302		
c	25 KVA	Nos.	1	3.9977		
2	Supplying, erecting, testing and commissioning 11 KV HT metering cubical (compact type) approved by Railway authority/SEB fabricated with 2 mm (14 SWG) M.S. sheets with supporting angle and channel, painted with powder coating / epoxy paint of required shade copper bus bar size 25 x 6 mm electronic security lock and heavy duty mechanical lock, with counter meter for measuring no of times the opening of doors, top side cover ( CT, PT cover) interlock with meter doors, epoxy coated 3 nos CT having required ratio between 5/5A to 50/5A, VA10,Class0.5S, 11000/V3/110/V3 VA 50, class 0.5 epoxy terminal block suitable for provided trivector meter, and provision for incoming and outgoing cables etc. complete duly tested by licensee with necessary test certificates and erected on provided plinth/ cc foundation	Nos.	1	2.8333		
3	Provision for payment to SEB towards supervision charges of estimated cost	Nos.	1	1.0334		
4	Dismantling the existing distribution transformer of any capacity from the plinth / foundation safely without any damages.	kVA	25	0.0146		
5	Dismantling existing pole mounted distribution transformer safely without any damages.	kVA	25	0.0205		
6	Dismantling any type of unserviceable feeder pillar, switch gear panel, capacitor panel, metering panel, bus-bar panel, electronic equipment panel, etc. and remaking the site good as original complete. (approx. size ( upto 200cm. x 90 cm x 45 cm and above) - big cupboard)	Nos	1	0.0346		
7	Excavation of Trench of 1000 mm deep, 300 mm wide for cable in normal soil	Mtr	500	0.9986		
8	Excavation of Trench of 400 mm deep,300 mm wide for cable in platform/pucca floor	Mtr	50	0.3525		
9	Supply & Laying OF HDPE pipe 103/120 mm dia through trenchless method.	Mtr	20	0.4157		
10	Supply, Laying, testing & commissioning of 1100 V AC XLPE cables			0.0000		
a	4CX25 Sqmm	Mtr	2000	6.3864		
b	4CX50 Sqmm	Mtr	500	2.5180		
c	2CX25 Sqmm	Mtr	700	1.3667		
d	3.5CX120 Sqmm	Mtr	50	0.3832		
11	Supply, Laying, testing & commissioning of PIJF Telephone cables			0.0000		
a	1P x 0.63mm	Mtr	150	0.0971		
b	2P x 0.63mm	Mtr	120	0.1036		
c	4P x 0.63mm	Mtr	200	0.3454		
d	8P x 0.63mm	Mtr	200	0.5181		
12	Supply and fixing of medium class GI Pipe, 50mm nominal bore	Mtr	180	1.6930		
13	Supply and erection of Cable Route Marker	Nos	100	0.2396		
14	Supply, installation and commissioning of Feeding Post	Nos	9	3.1678		
15	Supply, installation and commissioning of Meter cum distribution box	Nos	24	0.7105		
16	Supply, Erection, testing and commissioning of 1-Ph AC static watt hour meter	Nos	22	0.2493		
17	Supply, Erection, testing and commissioning of 3-Ph AC static watt hour meter	Nos	2	0.1704		
18	Supplying and fixing 8-way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Nos	1	0.0333		
19	Supplying and fixing 6-way, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)	Nos	1	0.0581		
20	Supply & erection of Hot Dip Galvanized octagonal Pole, 7.0 mtr	Nos	13	3.9168		
21	Astromical time switch along with TPN MCB 63 A	Nos	1	0.3585		

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22	Supply and installation of LED street Light fitting 45 W	Nos	13	1.4368
23	Supplying and fixing of 32/40 mm dia x 2.00 metres long G.I. pipe (medium class) bracket for mounting of LED street light fitting on Wall including bending the pipe to the required shape, 2 nos 40 mm X 3 mm flat iron clamps with nuts, bolts and washer, painting the flat iron with primer and finish paint etc. as required.	Nos	2	0.0383
24	Supply, Erection, testing & commissioning of Point Wiring for light point/ fan point/ exhaust fan point/ call bell point with 2.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed medium class PVC conduit, with modular switch, modular plate, suitable GI box and earthing the point with 2.5 sq.mm FRLS PVC insulated copper conductor single core cable etc. as required.	Point	442	6.4321
25	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface/ recessed medium class PVC conduit as required.			0.0000
a	2 x 2.5 sq. mm + 1 x 2.5 sq. mm earth wire	Mtr	200	0.6308
b	2 x 4 sq. mm + 1 x 4 sq. mm earth wire	Mtr	750	2.8441
c	2 x 6 sq. mm + 1 x 6 sq. mm earth wire	Mtr	500	2.3600
d	2 x 10 sq. mm + 1 x 6 sq. mm earth wire	Mtr	300	1.8605
e	4 x 4 sq. mm + 2 x 4 sq. mm earth wire	Mtr	150	0.8744
f	6 x 4 sq. mm + 1 x 4 sq. mm earth wire	Mtr	150	0.9964
26	Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface/ recessed steel/ PVC conduit as required			0.0000
a	1 x 1.5 sq. mm	Mtr	200	0.1087
b	2 x 2.5 sq. mm	Mtr	200	0.2098
c	2 x 4 sq. mm	Mtr	750	1.2198
d	4 x 4 sq. mm	Mtr	150	0.4423
e	6 x 4 sq. mm	Mtr	150	0.6269
f	2 x 6 sq. mm	Mtr	100	0.2310
27	Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of in surface/ recessed medium class PVC conduit as required.			0.0000
a	1 pair, 0.5 mm dia annealed copper conductor, FRLS PVC insulated, unarmoured, telephone cable	Mtr	400	0.8392
b	Co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid protected with PVC sheath	Mtr	600	1.4125
28	Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc. as required.			0.0000
a	1 or 2 Module	Nos.	126	0.5793
b	4 Module	Nos.	200	1.0850
c	6 Module	Nos.	10	0.0630
d	8 Module	Nos.	10	0.0724
29	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required			0.0000
a	5/6 A switch	Nos	20	0.0323
b	2 way 5/6 A switch	Nos	20	0.0466
c	3 pin 5/6 A socket outlet	Nos	20	0.0420
d	15/16 A switch	Nos	200	0.4985
e	6 pin 15/16 A socket outlet	Nos	200	0.6615
f	Bell push	Nos	26	0.0619
g	Modular Cable TV point	Nos	74	0.1668
h	Modular Telephone point	Nos	24	0.0541
30	Supply and installation of Bracket light angle holder	Nos	110	0.2429
31	Supply, installation, testing & commissioning of LED 18 W Tube Light Luminaire	Nos	100	2.3446
32	Supply, installation, Testing & Commissioning of Ceiling Fan	Nos	84	2.7854
33	Supplying and fixing call bell/ buzzer suitable for single phase, 230 V, complete as required.	Nos	26	0.0452
34	Supply, fixing, testing & commissioning of AC Exhaust fan 300mm complete	Nos	74	2.7605
35	Supply, fixing, testing & commissioning of Wall mounted Decorative fan	Nos	10	0.3979
36	Supply, erection, testing and commissioning of metal clad Socket for AC & Geyser	Nos	110	2.1683
37	Supply, erection, testing and commissioning of Following Telephone JB:			0.0000
a	10-Pair Telephone J.B.	Nos	7	0.2747
b	20-Pair Telephone J.B.	Nos	7	0.3434
c	40-Pair Telephone J.B.	Nos	1	0.0589
38	Supply of material and providing G.I. Earthing	Nos	30	0.9707
39	Supply & connecting GI strip/wire for earthing as below			0.0000
a	25X6mm GI strip in 40mm dia GI pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required	Mtr	100	0.9149
b	6 SWG GI wire in 15mm dia GI Pipe from earth electrode including connection with G.I. thimble excavation and re-filling as required	Mtr	100	0.3561

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c	25X6mm GI strip in recess/surface	Mtr	500	1.9536	Bidders not to quote or write anything here	Bidders not to quote or write anything here	
d	6 SWG GI strip in recess/surface	Mtr	500	0.5399			
40	Supply, fixing, testing and commissioning of hot pressed Sheet Moulding Compound (SMC) Junction box	Nos	10	0.1831			
41	Supply, Installation, Testing & Commissioning of 230 V AC Geyser 25 Ltrcapacity	Nos	24	2.2383			
42	Fabrication, supply & erection of sub distribution panel on 1.63 m MS sheet having aluminum bus bar 400 amps capacity, MCCB's 3 pole, 5 nos. (one no. of 300 amp/50 KA, Two nos. 100amp/25 KA & 63amp/25 KA each ), Voltmeter (0-500 V), ampere meter (0-300 Amp) Indication lamps etc. as per technical specification enclosed. for outdoor application & weather proof type.	Nos	2	3.2098			
43	Supply, fixing and commissioning of integrated LED Bulk Head Luminare 9 W comprises of pressure die cast housing, Acrylic diffuser & frame with IP.65 Protection suitable for 230 V,50 HZ AC supply	Nos	48	1.4339			
44	Supplying and fixing 5 A to 32 A rating, 240/415 V, 10 kA, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.			0.0000			
a	Single pole	Nos	192	0.7247			
b	Single pole and neutral	Nos	22	0.2267			
c	Double pole	Nos	24	0.2525			
d	Triple pole	Nos	6	0.0938			
e	Triple pole and neutral	Nos	2	0.0413			
45	Providing and fixing following rating and breaking capacity and pole MCCB with thermomagnet release and terminal spreaders in existing cubicle panel board including drilling holes in cubicle panel, making connections, etc. as required.			0.0000			
a	100 A, 16 KA, TP MCCB	Nos	1	0.0705			
b	150 A, 16 KA, TP MCCB	Nos	1	0.0887			
46	Item deleted			0.0000			
47	Supplying and erecting Borewell submersible pumpset of 5.625 KW/7.5 HP with 415 V, 50 c/s AC supply suitable for 150 mm dia. borewell suitable for 60 to 175 LPM discharge at 97 to 56 m head & (max. efficiency at 79 m head & 125 lpm) discharge & delivery pipe of Size-50 mm diameter with a necessary H type clamps as per specification no. WP-SMP	Nos	1	0.7488			
48	Supplying and erecting Centrifugal water pump (Monoblock), 415 V, three phase 50 cycles A.C supply of 5.625 KW/7.5 HP with discharge 4.5/8.6 Litres per second (LPS) for head of 32/52 m and 65 mm suction/ 50 mm delivery pipe of size or with discharge of 11.1/19.9 Litres per second (LPS) for head of 16/30 m and 80mm suction/ 65mm delivery pipe of size, on provided C.C. foundation as per specification no. WP-CGP	Nos	1	0.6113			
49	Item deleted			0.0000			
50	Supplying and erecting ISI mark GI pipe 50 mm. dia C-class position with accessories complete. Specification no. CW-PLB/GP.	Mtr	50	0.8062			
51	Supplying and erecting ISI mark GI pipe 65 mm. dia C-class position with accessories complete. Specification no. CW-PLB/GP.	Mtr	50	1.0178			
52	Supplying and erecting flat flexible 3 core 4 sq mm PVC sheathed submersible type copper cable suitably clamped at fixed intervals with column pipe assembly complete	Mtr	150	0.5310			
53	Supplying & erecting automatic control panel for 3 Ph, 415 volt, A.c. Submersible/centrifugal pump set upto 7.5 HP consisting of DOL starter having relay range 9-14 AMP,S.P.P., Combined ammeter/voltmeter, phase indicating lamp enclosed in CRCA powder coated Vibration proof enclosure with IP 54 protection. Control Panel should offer single phasing, phase reversal, phase imbalance etc	Nos	1	0.1067			
54	Supplying and erecting D.O.L. Starter 400V. 3 phase, 50 cycles with no volt coil and overload element with necessary materials and connected to supply upto 7.5 H.P.	Nos	1	0.0386			
55	Supplying and erecting 50 mm dia. gun metal sluice valve at position with necessary materials complete.	Nos	1	0.0468			
56	Supplying and erecting 65 mm dia. gun metal sluice valve at position with necessary materials complete.	Nos	1	0.0871			
57	Supplying and erecting non return valve 50 mm dia in position made of gun metal complete.	Nos	1	0.0298			
58	Supplying and erecting non return valve 63 mm dia in position made of gun metal complete.	Nos	1	0.0673			
59	Supplying and erecting pump protection relay comprising current sensing phase failure and UV+OV relay with dry run and overload protection suitable for 3 phase pumps.	Nos	1	0.0558			
60	Supplying & erecting Water level controller 230/ 415V AC., Four way for under ground & Over head tank operation.	Nos	1	0.0281			
61	Preparation of Drawings of structures	Job	5	0.9410			
<b>Total Section B</b>							