

**DELHI METRO RAIL CORPORATION LTD.**

**Contract- NC-08**

**Construction of staff quarters including architectural finishes, plumbing, drainage, external development, road and electrical works for Noida - Greater Noida Corridor.**

**SUMMARY SHEET (ADDENDUM NO-1)**

<b>S. No.</b>	<b>Tender Document</b>	<b>Page No.</b>	<b>Clause No./ Item No.</b>	<b>Addendum/ Corrigendum</b>	<b>Remarks</b>
1.	Special Conditions of Contract (SCC)	15	Sub-clause 11.2.5	Clause Modified	Page 15 is replaced with page 15R
2.	Bill of Quantity (BOQ)	10 to 12	Schedule A: - item no. 14.1 to 14.10.1, 14.12.1, 14.15.1.1, 14.16.1.1 & 14.18.1	Quantity of item no. 14.1 to 14.10.1.1, 14.12.1, 14.15.1.1, 14.16.1.1 & 14.18.1 of Schedule – A revised	Page no. 10, 11 & 12 are replaced with page no. 10R, 11R & 12R
3.	Bill of Quantity (BOQ)	-----	Schedule B (Architectural)	Rates of item no. 1 to 4 Schedule B (Architectural) revised.	Schedule B (Architectural) rates are revised.

<p><b>Sub-Clause 11.2.5</b></p>	<p><b>Interest in case of delay in repayment of advances</b></p> <p><u>In case there is a delay in progress and completion of work, as a result of which it is not possible to recover the advance before the original date of completion stipulated in the contract, then:</u></p> <p>(i) <u>Interest will be charged on the balance outstanding advance after the original date of completion at the rate of 3% above State Bank of India Base Rate or 12% whichever is higher.</u></p> <p>(ii) <u>Interest will be calculated from the next day after the original Date of Completion and up to the day the advance is actually paid back or recovered from respective RA bill (both days inclusive) and so on.</u></p>
<p><b>Clause 12.0 Variations</b></p>	<p><b>(C) Day work</b></p> <p>For payment of extra items, the Engineer may decide to pay on the basis of 'Day Work' concept instead of paying as per clause no. 12.5(ii) of GCC .In such a case the Engineer may, if in his opinion it is necessary or desirable issue an instruction that any varied work or new item of work shall be executed on a daywork basis. The Contractor shall be then paid for such item based on the actual expenditure made on daily basis under the terms set out in daywork schedule included in the Contract and at the rates and prices affixed by him in the tender.</p> <p>The Contractor shall furnish such receipts or other vouchers as may be necessary to prove the amounts paid and before ordering Materials shall submit to the Engineer the quotations for the same for his approval The Contractor shall furnish to the Engineer or his representative, a daily list (with name, occupation and shift time) of all workmen deployed on the work, in duplicate for checking and approval. The Contractor shall submit to the Engineer a priced statement of labour, material, plant, etc., actually used on the work, together with the output of work at the end of each calendar month and / or as soon as the work is completed. The payment for the new item of work will be certified by the Engineer based on this submission of contractor.</p>
<p>Training of contractor's Employees / Staff / Workers</p>	<p>Contractor shall provide a training / workshop on Safety, Health &amp; Environment (SHE) to all its workers/ employees/ subcontractors of at least 2 weeks (96 hrs) at the time of induction. Before posting any of his workers / staff / employees / subcontractors, the contractor shall give a certificate that the said person had undergone the requisite SHE training. Non compliance of the above will invoke penalties as per conditions of contract on SHE.</p>

S.No.	DSR 2014	Description	QUANTITY	Unit	Rate (In Rs)	AMOUNT
12.1	22.7	Providing and laying integral cement based water proofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc consisting of following operations: a) Applying a slurry coat of neat cement using 2.75 kg/sqm of cement admixed with water proofing compound conforming to IS 2645 and approved by Engineer-in-charge over the RCC slab including adjoining walls upto 300 mm height including cleaning the surface before treatment. b) Laying brick bats with mortar using broken bricks/brick bats 25 mm to 115 mm size with 50% of cement mortar 1:5 (1 cement : 5 coarse sand) admixed with water proofing compound conforming to IS : 2645 and approved by Engineer-in-charge to required slope				
12.1.1	22.7.1	With average thickness of 120 mm and minimum thickness at khurra as 65 mm.	3515.55	sqm	1,019.05	3582521.23
		<b>Total of Water Proofing Work</b>				<b>3582521.23</b>
<b>13</b>		<b>HORTICULTURE &amp; LANDSCAPING WORK</b>				
13.1	23.10	Grassing with selection No. 1 grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth, if needed (the good earth shall be paid for separately).				
13.1.1	23.10.1	In rows 5 cm apart in both directions.	4197.99	100 sqm	728.26	30572.31
12.4	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20% : 1 part of stacked volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth, if any, with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately) :				
12.4.1	23.14.1	Holes 1.2 m dia and 1.2 m deep	172.50	each	194.38	33529.86
12.5	23.24	Flooding the ground with water including making kiaries and dismantling the same.	19.55	100 sqm	115.28	22.54
		<b>Total of Horticulture &amp; Landscaping Work</b>				<b>64124.71</b>
<b>14</b>		<b>SANITARY FIXTURE, SOIL WASTE AND VENT PIPES</b>				
14.1	17.1	Providing and fixing water closet squatting pan (Indian type W.C. pan) with 100mm sand cast iron P or S trap, 10 liter low level white P.V.C 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				
14.1.1	17.1.1	White vitreous china Orissa pattern W.C. pan of size 580 x 440 mm. with integral type foot rests.	<b>117.00</b>	Each	3392.80	396957.60

S.No.	DSR 2014	Description	QUANTITY	Unit	Rate (In Rs)	AMOUNT
14.2	17.3	Providing and fixing white vitreous China pedestal type water closet (European Type) with seat and lid, 10 litre low level white vitreous china flushing cistern & C.P flush bend with fittings and C.I brackets, 40mm flush bend, overflow arrangement with special standard make and mosquito proof coupling of approved municipal design complete including painting of fittings and brackets, cutting and making good the walls and floors where required.				
14.2.1	17.3.1	W.C pan with ISI marked white solid plastic seat and lid.	<b>536.00</b>	Each	4784.60	2564545.60
14.3	17.7	Providing and fixing wash basins with C.P. brass pillar tap, 32mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls and floors where required.				
14.3.1	17.7.1	White Vitreous china Wash basin of size 630 x 450mm with a pair of 15mm C.P brass pillar taps.	<b>536.00</b>	Each	2331.15	1249496.40
14.4	17.10	Providing and fixing Salem stainless steel A ISI 304 (18/8) kitchen sink as per IS 13983 with C.I. brackets and stainless steel plug 40 mm including painting of fittings and brackets, cutting and making good the walls wherever required.				
14.4.1	17.10.1	Kitchen sink with drain board				
14.4.1.1	17.10.1.1	510 x1040 mm bowl depth 200 mm.	<b>318.00</b>	Each	7052.15	2242583.70
14.5	17.31	Providing and fixing 600x450 mm bevelled 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.	<b>536.00</b>	Each	793.95	425557.20
14.6	17.34	Providing and fixing toilet paper holder.				
14.6.1	17.34.1	CP Brass	<b>537.00</b>	Each	415.90	223338.30
14.7	17.35	Providing and fixing soil, waste and vent pipes.				
14.7.1	17.35.1	100 mm Dia				
14.7.1.1	17.35.1.2	Centrifugally Cast (spun) Iron Sockted & spigot (S&S) pipe as per IS: 3989, including necessary fittings as required or not specified in BOQ.	<b>8415.00</b>	Metre	917.75	7722866.25
14.8	17.37	Providing and fixing M.S. holder-bat clamps of approved design to Sand Cast iron/cast iron (spun) pipe embedded in and including cement concrete blocks 10x10x10cm of 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20mm nominal size) including cost of cutting holes and making good the				
14.8.1	17.37.1	For 100 mm dia. Pipe	<b>1914.00</b>	Each	152.90	292650.60
14.8.2	17.37.2	For 75 mm dia. Pipe	<b>1141.00</b>	Each	150.60	171834.60
14.9	17.39	Providing and fixing plain bend of required degree.				
14.9.1	17.39.1.2	100 mm dia Centrifugally Cast (spun) Iron S&S. as per IS: 3989	<b>654.00</b>	Each	335.75	219580.50
14.1	17.43	Providing and fixing single equal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts & nuts complete.				
14.10.1	17.43.1	100x100x100 mm				
14.10.1.1	17.43.1.2	Sand Cast (spun) Iron S&S.as per IS: 3989	<b>580.00</b>	Each	623.80	361804.00
14.1	17.44	Providing and fixing single equal plain junction of required degree.				
14.11.1	17.44.1	100x100x100 mm				
14.11.1.1	17.44.1.2	Sand Cast (spun) Iron S&S.as per IS: 3989	1564.00	Each	576.20	901176.80

S.No.	DSR 2014	Description	QUANTITY	Unit	Rate (In Rs)	AMOUNT
14.12	17.47	Providing and fixing single unequal plain junction of required degree with access door, insertion rubber washer 3 mm thick, bolts & nuts complete.				
14.12.1	17.47.1.2	100x100x75 mm Centrifugally Cast (spun) Iron S&S.as per IS: 3989	<b>58.00</b>	Each	792.20	45947.60
14.13	17.48	Providing and fixing single <b>unequal plain junction</b> of required degree :				
14.13.1	17.48.1	100x100x75 mm				
14.13.1.1	17.48.1.2	Centrifugally cast iron S&S as per IS - 3989	115.00	Each	690.00	79350.00
14.15	17.50	Providing and fixing <b>single equal plain invert branch</b> of required degree:				
14.15.1	17.50.1	100x100x100 mm				
14.15.1.1	17.50.1.2	Centrifugally cast iron S&S as per IS - 3989	<b>58.00</b>	Each	521.60	30252.80
14.16	17.54	Providing and fixing Centrifugally cast (spun) iron <b>S&amp;S off sets</b> as per IS: 3989.				
14.16.1	17.54.1	150 mm off sets				
14.16.1.1	17.54.2.2	With 100 mm dia. pipe	<b>58.00</b>	Each	486.30	28205.40
14.17	17.56	Providing and fixing terminal guard.				
14.17.1	17.56.1	100 mm dia				
14.17.1.1	17.56.1.2	Sand Cast (spun) Iron S&S.as per IS: 3989	11.50	Each	434.50	4996.75
14.18	17.61	<b>Cutting chases in brick masonry walls</b> for following diameter sand cast iron/Centrifugally cast (spun) iron pipes and making good the same with cement concrete 1:3:6 ( 1 cement : 3 coarse sand :6 graded stone aggregate 12.5 mm nominal size ) including necessary plaster and pointing in cement mortar 1:4 (1 cement : 4 coarse sand) :				
14.18.1	17.61.1	100 mm dia.	<b>119.95</b>	Meter	332.00	39823.40
14.19	17.65	Painting sand cast iron/ centrifugally cast (spun) soil, waste, vent pipes and fittings with two coats of synthetic enamel paint of any colour such as chocolate grey, or buff etc. over a coat of primer (of approved quality) for new work.				
14.19.1	17.65.1	100 mm diameter pipe	7317.00	Each	38.65	282802.05
14.20	17.73	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour.				
14.20.1	17.73.2	600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 gms	466.00	Each	541.50	252339.00
14.21	17.7	Providing and fixing PTMT Bottle Trap for Wash basin and sink.				
14.21..1	17.70.1	Bottle trap 31mm single piece moulded with height of 270 mm, effective length of tail pipe 260 mm from the centre of the waste coupling, 77 mm breadth with 25 mm minimum water seal, weighing not less than 260 gms	748.00	Each	494.90	370185.20
		<b>Total of Sanitary Fixtures</b>				<b>17906293.75</b>
<b>15.00</b>		<b>WATER SUPPLY</b>				
15.1	18.10	Providing and fixing G.I. Pipes complete with G.I. Fittings and clamps .including cutting and making good the walls etc.				

S.No.	Description	Unit	Quantity	Rate	Amount	Remarks
<b>1</b>	<b>FIRE DOORS</b>					
1.1	Fire check doors supply of approved make 2hrs fire rated door fabricated and successfully tested at CBRI Roorkee in both directions - satisfying two criteria (Stability and Integrity) confirming to BS:476 Part II, IS3614 Part II as per schedule of requirement.	SQM	510	<u>5,971.39</u>	3,045,407.35	
1.2	Providing and fixing Heavy Duty Door Closer complete in all respect - 2hrs fire rated	Each	163	<u>1,094.75</u>	178,444.95	
1.3	Providing and fixing Eurofile Mortice lock -240 with double pin cylinder having master arrangement and ss handles complete in all respect - 2hrs fire rated	Each	163	<u>2089.99</u>	340,667.63	
1.3.1	Providing and fixing Concealed SS finish tower bolts (300mm) complete in all respect - 2hrs fire rated	Each	163	<u>139.33</u>	22,711.18	
1.3.1.1	Providing and fixing Magnum or equivalent make SS 4 Ball Bearing hinges complete in all respect - 2hrs fire rated	Each	163	<u>69.67</u>	11,355.59	
1.4	Providing and fixing SS handles Dorma or equivalent make for double leaf door complete in all respect - 2hrs fire rated	Each	163	<u>447.85</u>	73,000.21	
1.5	Dorma or equivalent make Panic Bar for Double leaf door - 2hrs fire rated	Each	163	<u>14,331.33</u>	2,336,006.58	
1.6	Installation Charges of fire door complete in all respect	sqm	510	<u>547.38</u>	279,162.34	
	<b>Total of Fire Doors</b>				<b>6286755.81</b>	
<b>2</b>	<b>MISCELLANEOUS WORK</b>					
2.1	Providing and fixing in expansion joints of beams/columns/slab approved quality closed cell Polythelene foam joint filler material board 25mm thk as per dwgs & instructions complete including fixing with adhesives	sqm	75.00	<u>1154.02</u>	86551.85	
2.2	Filling sunken areas with broken brick bats of 25-75 mm Nominal size in cement mortar (1:4) including ramming to required consolidation complete at any level	cum	457.87	<u>907.29</u>	415421.78	
2.3	Providing and fixing chicken wire mesh (26 gauge) at the junctions of RCC & brick work fixed with wire nail in cement mortar 1:4 (1 cement : 4 fine sand) etc complete.	sqm	800.00	<u>73.39</u>	58709.45	
2.4	Providing and filling non-shrink grout under base plates or holes or around bolts as per direction of Engineer-in-charge	cum	5.00	<u>70964.35</u>	354821.74	
2.5	Providing and fixing Razor wire mesh fencing in flat panel formation in diamond shape with Epoxy coating of mesh size 5" x 5" fabric including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge. The panel ht. for fencing could vary from 2m-3m with 2.6mm dia high tensile steel wire as per IS - 4454 with zinc coating of 230gms/sqm	sqm	70.00	<u>895.75</u>	62702.79	
2.6	Extra for using Broken China/ceramic clay tiles for finally finishing the surface against item no. 22.7 (d) of SCHEDULE A - DSR Items on Pg 23	sqm	1810.00	<u>16.80</u>	30416.17	
	<b>Total of Miscellaneous Work</b>				<b>1008623.78</b>	

S.No.	Description	Unit	Quantity	Rate	Amount	Remarks
<b>3</b>	<b>WOOD WORK</b>					
3.1	Providing and fixing factory made prelaminated(both side) ISI flush door shutters of thickness 35 mm(Flush door of make Duro/Greenply/Centuryply or equivalent and 1 mm thick laminate of make Merino/Greenply/Centuryply or equivalent)	sqm	2450.00	<b><u>4840.64</u></b>	11859564.82	
3.2	Providing and fixing ISI marked handles Mortice cylinder lockcase, 55mm backset, 72mm centres with steel nuts and screws etc. complete	each	152.00	<b><u>1153.78</u></b>	175374.82	
3.3	Providing and fixing stainless steel ISI marked door stopper of approved make transparent of dyed to required colour or shade with steel nuts and screws etc. complete				0.00	
3.4	Single rubber stopper	each	1292.00	<b><u>309.42</u></b>	399774.87	
3.5	Providing and fixing Stainless Steel Door handles with necessary screws etc. complete:				0.00	
3.5.1	150mm	each	8868.00	<b><u>141.60</u></b>	1255713.08	
	<b>Total of Wood Work</b>				<b>13690427.59</b>	
<b>4</b>	<b>HORTICULTURE &amp; LANDSCAPING WORK</b>					
4.1	Supplying and planting best quality container grown healthy trees of minimum 2 m ht of specified species. All trees are to be approved before planting (rates inclusive of maintenance for 1 year after completion)	Nos.	50.00	<b><u>515.19</u></b>	25759.50	
4.2	Supplying and planting best quality pot grown healthy shrubs of minimum 750mm tall of specified species. All trees are to be approved before planting (rates inclusive of preparation and cultivation of shrub beds and maintenance for 1 year after completion)	Nos.	800.00	<b><u>164.86</u></b>	131888.49	
4.3	Supplying and planting best quality pot grown healthy ground cover plants of minimum 300mm stem of specified species. All trees are to be approved before planting (rates inclusive of preparation and cultivation of shrub beds and maintenance for 1 year after completion)	Nos.	700.00	<b><u>61.82</u></b>	43275.87	
4.4	Supplying and planting best quality pot grown healthy climber plants of minimum 900mm stem of specified species. All trees are to be approved before planting (rates inclusive of preparation and cultivation of shrub beds and maintenance for 1 year after completion)	Nos.	100.00	<b><u>123.65</u></b>	12364.55	
4.5	Supplying and planting best quality healthy ornamental plants of specified species. All trees are to be approved before planting (rates inclusive of preparation and cultivation of shrub beds and maintenance for 1 year after completion)	Nos.	70.00	<b><u>721.27</u></b>	50488.63	
	<b>Total of Horticulture &amp; Landscaping Work</b>				<b>263777.04</b>	