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**3.0 Wastage in case of cement/ steel is issued by OWNER.**

a) Cement on completion of work, the theoretical consumption shall be worked out as per the cement consumption statement enclosed herewith as Annexure-I. On page no.212c to 212g. If the actual consumption of cement exceeds the theoretical consumption by more than 5%, then the excess of the cement consumed above 5% shall be recovered at an enhanced rate of 2 times the issue rate or 1.5 times the prevailing market rate.

b) TMT CRS Reinforcement steel Maximum wastage Permitted will be 5% of the theoretical consumption. If the wastage is more than 5% of the steel billed for, then the excess wastage above 5% of the steel billed for, then the excess wastage above 5% limit shall be recovered at an enhanced rate of 1.5 times the Issue rate or 1.5 times the prevailing market rate.

c) All the surplus and serviceable TMT CRS bars if issued by the OWNER of the length more than 2 m in case of bars and other sections and of size 1m x 1m in case of plates shall be weigh category wise and returned to the OWNER after the completion of the works. Likewise all surplus and serviceable cement bags in original conditions shall be returned to the OWNER after the completion of the works.

e) Pursuant to clause 7.1 of special conditions of contract, an additional quantity of 5% of the billed quantity of mild, or TMT steel as well as structural steel and theoretical quantity of cement consumed shall be recovered from each interim bill. The actual wastage of the materials issued shall however be derived in the final bill and considered for reconciliation.

**3.0 Rolling margin**

3.1 compensation shall be paid to the contractor in case the actual weight of the steel bras is more than the corresponding theoretical weight. For this the contractor has to raise his claim before utilizing the steel and within 15 days of the receipt of the steel consignment at site.

**3.2 Procedure for testing & recording of steel issued**

Random samples, minimum 3 samples per consignment of 10 MT or less shall be taken and the average of these testes shall be taken as governing coefficient for a consignment.

3.3 Samples shall be taken jointly & immediately upon the arrival of the consignment and suitably marked and identified. Samples shall be kept in safe custody of the engineer for future verifications if required.

3.4 records to be maintained clearly, showing consignment date, supplier, quantity of steel received and the area where the steel is used along with the test result.

3.5 Compensation towards the rolling weight difference shall be considered only in case the actual total wastage is more than 5% of the consumption as per the interim bill for the quantity of the TMT CRS steel used. No compensation shall be considered in individual categories of steel bars, where the wastage is 5% or less.

3.6 The permissible wastage of 5% is deemed to take in to account the 2.5% difference on account of rolling difference and 2.5% towards the wastage and therefore no compensation shall be considered up to 2.5% difference in rolling margin.

3.7 The compensation shall be worked out lot wise as under:-  
The excess weight on account of the rolling weight difference of more than 2.5% shall be calculated per consignment i.e. if the actual weight per meter length as per the test result is  $a$  kg/meter, as against the theoretical unit weight  $t$  kg/m, for a consignment of  $w$   $100 \times (a/t) - 1 = x\%$  shall be the difference on account of the rolling difference.  $W \times (x - 2.5)/100$  MT shall be deducted from the gross issue for the purpose of recovery of steel issued.

On no account this difference shall be considered for the payment as per item rates for fabrication of reinforcement steel works.  
The above calculation shall be done for each individual lot separately, subject to the clauses 3.2 & 3.3 hereof and the total for all such lots, where there is more than 2.5% variation in rolling weight, shall be considered.

However, the total quantity to be considered for the reduction towards the rolling margin from the total quantity issued shall be limited to the gross wastage in excess of 5% of the net consumption of steel.  
If in certain circumstances, Owner can not supply any of above item, on request of owner, contractor will manage to procure material at site and the contractor shall be paid/ deducted the differences as per basic rate given above.

Ceramic & Vitrified Tiles wastage & breakage 5% maximum will be allow, in case of wastage & breakage more than 5% than reconciliation made on 1.5 times Basic Rate.

CEMENT CONSUMPTION ANNEXURE -I

IT.No.	DESCRIPTION	Cement COEF.	
<b>2.00</b>	<b>CONCRETE</b>		
2.01	BBCC 1:5:10	2.60	CUM
2.02	BBCC 1:4:8	3.40	CUM
2.03	PCC 1:5:10	2.60	CUM
2.04	PCC 1:4:8	3.40	CUM
2.05	PCC 1:3:6	4.00	CUM
2.06	RCC 1:2:4 UP TO HPL	6.40	CUM
2.07	RCC 1:1.5:3 UP TO PL	8.00	CUM
2.08	RCC 1:1:2 UP TO PL	11.00	CUM
2.09	RCC 1:2:4 IN SS UP TO 10M	6.40	CUM
2.10	RCC 1:1.5:3 IN SS UP TO 10M	8.00	CUM
2.11	RCC 1:1:2 IN SS UP TO 10M	11.00	CUM
2.15	DAMP PROOF COURSE	0.256	CUM
2.17	RCC 1:2:4 FOR M/C FOUNDATIONS	6.40	CUM
2.18	RCC 1:2:4 IN FLOORING/PAVEMENT	6.40	CUM
<b>3.00</b>	<b>MASONRY WORK</b>		
3.01	BK MASONRY IN CM 1:6 UP TO PL	1.24	CUM
3.02	BK MASONRY CM 1:6 IN SS	1.24	CUM
3.03	BK MASONRY CM 1:4 IN PARTI WALL	0.2128	CUM
3.04	UCR MASONRY CM 1:6 UP TO PL	1.60	CUM
3.05	UCR MASONRY CM 1:6 IN SS	1.60	CUM
3.06	CORSE RUBBLE CM 1:6 MASONRY IN PL	1.50	CUM
3.07	CORES RUBBLE CM 1:6 MASONRY IN SS	1.50	CUM
<b>4.00</b>	<b>WOOD WORK</b>		
4.01	TW FLUSH SHUTTERS 150 x 62 FR	0.20	SQM
4.03	TW PNLD SHUTTERS 150 x 62 FR	0.20	SQM
4.05	TW BATTEN DOOR 150 x 62 FR	0.20	SQM
4.07	COMPOSITE DOOR & WINDOWS	0.20	SQM
4.08	TW WINDOW - VENT FIXED TYPE	0.20	SQM
4.09	TW WINDOW - VENT OPENABLE TYPE	0.20	SQM
4.10			SQM
4.12	FIXED PLAIN/FROST GL - LOUVERS	0.20	SQM
4.13	FIXED - WIRED GLASS LOUVERS	0.20	SQM
4.14	TW FRAME WITH AC SHEETS	0.20	SQM

CEMENT CONSUMPTION ANNEXURE -I

IT.No.	DESCRIPTION	Cement COEF.	
<b>5.00</b>	<b>FINISHING WORK</b>		
5.01	12MM PLSTR CM1:4 WITH LIM NERU	0.1094	SQM
5.02	19MM PLASTER CM1:4 WITH LIM NERU	0.1616	SQM
5.03	06MM PLASTER CM1:4 ON RCC & NERU	0.0547	SQM
5.04	19MM GRIT PLASTER IN CM	0.1954	SQM
5.05	19MM SAND FACED PLASTER	0.1954	SQM
5.06	19MM TH WRINKLE PLASTER	0.50	SQM
5.07	12MM PLASTER W/O LIME NEERU	0.1094	SQM
5.08	19MM PLASTER W/O LIME NEERU	0.1616	SQM
5.09	06MM PLASTER W/O LIME NEERU	0.0547	SQM
5.10	NEAT CEMENT FINISH	0.044	SQM
5.11	20MM PLASTER OVER INSULATION	0.1616	SQM
5.12	25MM TH WATERPROOF PLASTER	0.306	SQM
5.13	FLUSH POINTING IN CM1:1	0.062	SQM
5.14	RAISED POINTING ON RR MASONRY	0.0388	SQM
<b>6.00</b>	<b>FLOORING WORK</b>		
6.01	MOSAIC TILES FLOORING	0.216	SQM
6.02	MOSAIC TILES SKIRTING	0.2348	SQM
6.03	MOSAIC TILES DADO	0.2348	SQM
6.04	MARBLE CHIPS FLOORING	0.3152	SQM
6.05	MARBLE CHIPS SKIRTING	0.242	SQM
6.06	MARBLE CHIPS DADO	0.242	SQM
6.09	37MM TH IPS FLOORING ETC	0.2776	SQM
6.10	50MM TH IPS FLOORING	0.364	SQM
6.11	19MM TH IPS SKIRTING	0.1388	SQM
6.19	GREEN KOTA STONE FLOORING	0.352	SQM
6.20	GREEN KOTA STONE SKIRTING	0.2902	SQM
6.21	GREEN KOTA STONE DADO	0.336	SQM
6.22	KOTA STONE TREADS PLATFORM	0.352	SQM
6.23	KOTA STONE RISERS	0.2902	SQM
6.24	ROUGH KOTA STONE FLOORING	0.352	SQM
6.25	WHITE GLAZED TILES 10MM TH	0.3132	SQM
6.26	WHITE GLAZED TILES 6MM TH	0.3132	SQM
6.27	COLOUR GLAZED TILES 10MM TH	0.3132	SQM
6.28	COLOUR GLAZED TILES 6MM TH	0.3132	SQM
6.29	PRINTED GLAZED TILES 10MM TH	0.3132	SQM
6.30	PRINTED GLAZED TILES 6MM TH	0.3132	SQM
6.31	115MM TH INDIA WATER PROOFING	0.352	SQM
6.32	75 MM TH INDIA WATER PROOFING	0.352	SQM
6.33	INDIA WATER PROOFING WATER TANK	0.352	SQM
6.34	LIME CONCRETE TERRACING		SQM
6.35	MANDANA STONE FLOORING	0.352	SQM
6.36	P&F MACHINE CUT MANDANA STONE	0.352	SQM
6.37	CI TILES	0.32	SQM
6.38	WATER PROOFING WITH KOTA STONE	0.50	SQM

CEMENT CONSUMPTION ANNEXURE -I

IT.No.	DESCRIPTION	Cement COEF.	
<b>7.00</b>	<b>STEEL WORK</b>		
7.01	STEEL WINDOW - FIXED TYPE	0.026	SQM
7.02	STEEL WINDOW - SIDE OPENABLE	0.026	SQM
7.03	STEEL WINDOW - COMPOSITE TYPE	0.026	SQM
7.04	STELL WINDOW - PIVOTED	0.026	SQM
7.05	STEEL FIXED LOUVER WITH GLASS	0.026	SQM
7.06	STEEL FIXED LOUVER WIRED GLASS	0.026	SQM
7.07	STEEL FIXED LOUVER MS SHEET	0.026	SQM
7.12	MS DOOR FRAMES	0.01	SQM
7.13	STEEL FRAMES FOR GLAZING	0.026	SQM
7.14	BRC FABRIC GRILL	0.026	SQM
7.15	STEEEL DOORS	0.026	SQM
7.26	GI PIPE GUARD RAIL-200MM HIGH	0.01	RMT
7.27	GI PIPE GUARD RAIL-300MM HIGH	0.01	RMT
7.28	GI PIPE GUARD RAIL-450MM HIGH	0.01	RMT
<b>9.00</b>	<b>MISCELLANEOUS WORK</b>		
9.05	FILLING ELECTRICAL ZARIES	0.05	RMT
9.10	FILLING ZARIES WITH PCC 1:2:4	0.032	RMT
9.13	CABLE TRENCH - 300MM WIDE	1.70	RMT
9.14	CABLE TRENCH - 450MM WIDE	1.90	RMT
9.15	CABLE TRENCH - 600MM WIDE	2.03	RMT
<b>10.00</b>	<b>RENOVATION WORK</b>		
10.14	PLINTH PROTECTION	0.256	RMT
<b>20.00</b>	<b>COMPOUND WALL</b>		
20.01	GI BARBED WIRE FENCE - RCC POST	0.0510	RMT
20.02	GI BB WIRE FENCE ANGLE IRON	0.0510	RMT
20.03	GI BARBED WIRE FENCE WOOD BALLI	0.0510	RMT
20.04	GI BARBED WIRE FNC-CW ANG-IRON	0.0235	RMT
20.05	CHAINLINK FENCING	0.0510	RMT
20.06	BROKEN GLASS OVER COMPD-WALL	0.1616	RMT
20.07	PCC 1:2:4 FOR COPING 40MM TH.	0.2560	RMT
<b>30.00</b>	<b>ROAD WORK</b>		
30.07	PRECAST PCC 1:2:4 KERBING	0.215	CUM
30.17	PCC 1:4:8 FOR ROAD	3.40	CUM
30.18	PCC/RCC 1:2:4 FOR ROAD	6.40	CUM

## CEMENT CONSUMPTION ANNEXURE -I

IT.No.	DESCRIPTION	Cement COEF.	
<b>50.00</b>	<b>SANITARY WORK</b>		
50.01	RCC HUME PIPE 600MM DIA	0.064	RMT
50.02	RCC HUME PIPE 450MM DIA	0.048	RMT
50.03	RCC HUME PIPE 300MM DIA	0.022	RMT
50.04	RCC HUME PIPE 230MM DIA	0.018	RMT
50.05	RCC HUME PIPE 150MM DIA	0.012	RMT
50.06	RCC HUME PIPE 100MM DIA	0.010	RMT
50.07	STONEWARE PIPE 300MM DIA	0.1294	RMT
50.08	STONEWARE PIPE 230MM DIA	0.0974	RMT
50.09	STONEWARE PIPE 150MM DIA	0.0656	RMT
50.10	STONEWARE PIPE 100MM DIA	0.0434	RMT
50.11	CI WW CONCLD LINE-CT JT-75MM DIA	0.086	RMT
50.12	CI WW CONCLD LINE-CT JT-100MM DIA	0.1088	RMT
50.13	CI WW CONCLD LINE-CT JT- 75MM DIA		RMT
50.14	CI WW CONCLD LINE-LD JT 100MM DIA		RMT
50.15	CI WW OPEN LINE CT JT 75MM DIA	0.086	RMT
50.16	CI WW OPEN LINE CT JT 100MM DIA	0.1088	RMT
50.17	CI WW OPEN LINE LD JT 75MM DIA		RMT
50.18	CI WW OPEN LINE LD JT 100MM DIA		RMT
50.19	CI SOIL PIPE CONCLD CT JT 100MM DIA	0.1088	RMT
50.20	CI SOIL PIPE CONCLD CT JT 150MM DIA	0.1466	RMT
50.21			RMT
50.22			RMT
50.23	CI SOIL PIPE OPEN CT JT 100MM DIA	0.1088	RMT
50.24	CI SOIL PIPE OPEN CT JT 150MM DIA	0.1466	RMT
50.25	CI SOIL PIPE OPEN LD JT 100MM DIA		RMT
50.26	CI SOIL PIPE OPEN LD JT 150MM DIA		RMT
50.27	CI RAINWATERLINE CONCLD 100MM DIA	0.1088	RMT
50.28	CI RAINWATERLINE CONCLD 150MM DIA	0.1466	RMT
50.29	CI RAINWATERLINE OPEN 100MM DIA	0.1088	RMT
50.30	CI RAINWATERLINE OPEN 150MM DIA	0.1466	RMT
50.31	INDIAN MARBLE PARDI	0.02	SQM
50.32	VITREOUS GLAZED PARTITION	0.02	SQM
50.33	EUROPEAN TYPE WC-LOW CISTERN	0.05	NO
50.34	EUROPEAN TYPE WC-HIGH CISTERN '	0.05	NO
50.35	HINDUSTAN TYPE WC HIGH CISTERN	0.05	NO
50.36	HINDUSTAN TYPE WC LOW CISTERN	0.05	NO
50.37	ORISSA TYPE WC HIGH CISTERN	0.05	NO
50.38	ANGLO INDIAN WC HIGH CISTERN	0.05	NO
50.39	FLAT BACK URINAL	0.05	NO
50.40	CORNER WALL URINAL	0.05	NO
50.41	STALL URINAL - LIPPED BASE	0.05	NO
50.42	WASH BASIN 55CM X 40CM SIZE	0.05	NO
50.43	WASH BASIN WITH PAIR OF TAPS	0.05	NO
50.44	WASH BASIN 63CM X 45CM SIZE	0.05	NO
50.45	WASH BASIN 63CM X 45CM SINGLE TAPS	0.05	NO
50.46	WASH BASIN 63CM X 45CM TWO TAPES	0.05	NO
50.47	FIRE CLAY SINK 600 X 450 X 150MM	0.05	NO
50.48	FIRE CLAY SINK 600 X 450 X 350MM	0.05	NO
50.49	FIRE CLAY SINK 750 X 450 X 250MM	0.05	NO
50.50	MOSAIC SINK 600 X 450 X 150MM	0.05	NO
50.51	MOSAIC SINK 600 X 450 X 250MM	0.05	NO
50.52	MOSAIC SINK 750 X 450 X 250MM	0.05	NO

CEMENT CONSUMPTION ANNEXURE -I

IT.No.	DESCRIPTION	Cement COEF.	
50.53	CHINA SINK 600 X 450 X 150MM	0.05	NO
50.54	CHINA SINK 600 X 450 X 250MM	0.05	NO
50.55	CHINA SINK 700 X 450 X 250MM	0.05	NO
50.56	LAB SINK 450 X 300 X 150MM	0.05	NO
50.57	LAB SINK 600 X 450 X 200MM	0.05	NO
50.58	GLAZED STONEWARE DRAIN BOARD		
50.59	TEAKWOOD DRAIN BOARD		
50.60	AUTO FLUSH TANK-5 LITER		
50.61	AUTO FLUSH TANK-10 LITER		
50.62	BK MASONRY CHAMBER 300 X 300MM	1.70	NO
50.63	EARTHWARE HALF ROUND CHANNEL	0.1586	RMT
50.64	STONEWARE HALF ROUND CHANNEL	0.1586	RMT
50.65	SPECIAL FLOOR DRAIN WITH C&S	0.36	NO
50.66	SPECIAL FLOOR DRAIN WITHOUT C&S	0.36	NO
50.67	STONEWARE PIPE FOR M/C DRAIN	0.10	RMT
50.68	STONEWARE GULLY TRAP CHAMBER	0.50	NO
50.69	HCI NAHNI TRAP	0.01	NO
50.70	PAPER HOLDER WOODEN ROLLER		NO
50.71	PAPER HOLDER PLASTIC ROLLER		NO
50.78	INSPECTION CHAMBER 0.6 X 0.6 X 1M	2.50	NO
50.79	INSPECTION CHAMBER 1 x 1 x 1- 2M	5.00	NO
50.80	MANHOLES 1.2 X 1.2M 0.6-2M DEEP	7.00	NO
50.81	MANHOLES 3M X 2M SIZE	19.00	NO
50.82	SEPTIC TANK 4 X 1.4 X 2M SIZE	43.20	NO
50.83	SEPTIC TANK 6M X 2M X 3M	78.00	NO
50.84	SOAK WELL 4M DIA 3M DEEP	25.50	NO
50.85	SOAK WELL 4M DIA 5M DEEP	20.00	NO
50.86	CI RAINWATER LINE CONCLD 75MM DIA	0.086	RMT
50.87	CI RAINWATER LINE OPEN 75MM DIA	0.086	RMT
50.88	STAINLESS STEEL SINK 60 X 45 X 20 CM	0.05	RMT
50.89	STAINLESS STEEL SINK 60 X 45 X 25 CM	0.05	RMT
50.90	STAINLESS STEEL SINK 75 X 45 X 25 CM	0.05	RMT
<b>60.00</b>	<b>STORM WATER DRAINAGE &amp; CULVERT</b>		
60.01	RCC PIPE (NP-2) 150MM DIA	0.012	RMT
60.02	RCC PIPE (NP-2) 250MM DIA	0.018	RMT
60.03	RCC PIPE (NP-2) 300MM DIA	0.024	RMT
60.04	RCC PIPE (NP-2) 450MM DIA	0.054	RMT
60.05	RCC PIPE (NP-2) 900MM DIA	0.098	RMT
60.06	GLAZED SW PIPE 100MM DIA	0.0434	RMT
60.07	GLAZED SW PIPE 150MM DIA	0.065	RMT
60.08	GLAZED SW PIPE 200MM DIA	0.0863	RMT
60.09	GLAZED SW PIPE 250MM DIA	0.0974	RMT
60.10	GLAZED SW PIPE 300MM DIA	0.1294	RMT
60.11	GLAZED SW PIPE 450MM DIA	0.1984	RMT
60.12	STORM WATER GULLY CHAMBERS	6.00	NO
60.13	75MM TH RCC COPING ON CULVERT	0.50	RMT
60.14	19MM PLASTER TO OPEN DRAIN	0.2056	RMT
60.15	DRY BRICK PITCHED DRAINS	0.22	RMT
60.16	RECESSED POINTING ON BK WORK	0.062	SQM