

**SCHEDULE – G**  
**CO-EFFICIENT FOR CEMENT CONSUMPTION**

सीमेंट की खपत के लिए गुणक

COEFFICIENTS FOR CEMENT  
CONSUMPTION

भारत सरकार

GOVERNMENT OF INDIA

अंतरिक्ष विभाग

DEPARTMENT OF SPACE

सिविल इंजीनियरी प्रभाग

CIVIL ENGINEERING DIVISION

बेंगलूर

BANGALORE

COEFFICIENTS FOR CEMENT CONSUMPTION

INDEX

Sl. No.	SCHEDULE No.	NAME OF SUB - HEAD	PAGE No.
1	E	Cement/ Lime Mortar	1 - 1
2	SH - B	Masonry	2 - 9
3	SH - C	Plain Cement Concrete	10 - 12
4	SH - D	Reinforced Cement Concrete	13 - 15
5	SH - G	Steel joinery	16 - 16
6	SH - H	Flooring	17 - 22
7	SH - I	Wood work	23 - 23
8	SH - J	Flooring	24 - 25
9	SH - K	Finishing	26 - 29
10	SH - L	Miscellaneous	30 - 30
11	SH - O	Fencing & Services	31 - 31
12	SH - Q	Maintenance - Repairs to Building	32 - 32

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

E. CEMENT/LIME MORTAR.

SOR CODE	Brief Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
80	Cement Mortar		
80.01	Cement Mortar 1 : 1	CUM	1020.00
80.02	Cement Mortar 1 : 2	CUM	680.00
80.03	Cement Mortar 1 : 3	CUM	510.00
80.04	Cement Mortar 1 : 4	CUM	380.00
80.05	Cement Mortar 1 : 5	CUM	310.00
80.06	Cement Mortar 1 : 6	CUM	250.00
82	Cement Lime Mortar		
82.01	Cement Lime Mortar 1 : 2 : 9	CUM	170.00
82.02	Cement Lime Mortar 1 : 1 : 6	CUM	250.00

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - B : MASONRY

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	RANDOM RUBBLE MASONARY in Foundation and Plinth		
01. 1	In Cement Mortar 1 : 6	CUM	82. 50
01. 2	In Cement Mortar 1 : 5	CUM	102. 30
01. 3	In Cement Mortar 1 : 4	CUM	125. 40
01. 4	In Cement Mortar 1 : 3	CUM	168. 30
02	RANDOM RUBBLE MASONARY in Super structure		
02. 1	In Cement Mortar 1 : 6	CUM	82. 50
02. 2	In Cement Mortar 1 : 5	CUM	102. 30
02. 3	In Cement Mortar 1 : 4	CUM	125. 40
02. 4	In Cement Mortar 1 : 3	CUM	168. 30
03	COURSED RUBBLE/ SIZE STONE MASONARY in Foundation and Plinth		
03. 1	In Cement Mortar 1 : 6	CUM	70. 00
03. 2	In Cement Mortar 1 : 5	CUM	86. 80
03. 3	In Cement Mortar 1 : 4	CUM	106. 40
03. 4	In Cement Mortar 1 : 3	CUM	142. 80

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
04	COURSED RUBBLE/ SIZE STONE MASONARY in Super structure		
04.1	In Cement Mortar 1 : 6	CUM	70.00
04.2	In Cement Mortar 1 : 5	CUM	86.80
04.3	In Cement Mortar 1 : 4	CUM	106.40
04.4	In Cement Mortar 1 : 3	CUM	142.80
08	BRICKY MASONARY in Foundation and Plinth		
08.1	Using Bricks of class designation "3.50"		
08.1.1	In Cement Mortar 1 : 6	CUM	62.50
08.1.2	In Cement Mortar 1 : 5	CUM	77.50
08.1.3	In Cement Mortar 1 : 4	CUM	95.00
08.1.4	In Cement Mortar 1 : 3	CUM	127.50
08.1.5	In Cement Lime Mortar 1 : 2 : 9	CUM	42.50
08.2	Using Bricks of class designation "5.00"		
08.2.1	In Cement Mortar 1 : 6	CUM	62.50
08.2.2	In Cement Mortar 1 : 5	CUM	77.50
08.2.3	In Cement Mortar 1 : 4	CUM	95.00
08.2.4	In Cement Mortar 1 : 3	CUM	127.50

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
08.3	Using Bricks of class designation "7.50"		
08.3.1	In Cement Mortar 1 : 6	CUM	55.00
08.3.2	In Cement Mortar 1 : 5	CUM	68.20
08.3.3	In Cement Mortar 1 : 4	CUM	83.60
08.3.4	In Cement Mortar 1 : 3	CUM	112.20
08.4	Using Bricks of class designation "10.00"		
08.4.1	In Cement Mortar 1 : 6	CUM	55.00
08.4.2	In Cement Mortar 1 : 5	CUM	68.20
08.4.3	In Cement Mortar 1 : 4	CUM	83.60
08.4.4	In Cement Mortar 1 : 3	CUM	112.20
09	BRICK MASONRY in super structure		
09.1	Using Bricks of class designation "3.50"		
09.1.1	In Cement Mortar 1 : 6	CUM	62.50
09.1.2	In Cement Mortar 1 : 5	CUM	77.50
09.1.3	In Cement Mortar 1 : 4	CUM	95.00
09.1.4	In Cement Mortar 1 : 3	CUM	127.50
09.1.5	In Cement Lime Mortar 1 : 2 : 9	CUM	42.50

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
09. 2	Using Bricks of class designation "5. 00"		
09. 2.1	In Cement Mortar 1 : 6	CUM	62. 50
09. 2.2	In Cement Mortar 1 : 5	CUM	77. 50
09. 2.3	In Cement Mortar 1 : 4	CUM	95. 00
09. 2.4	In Cement Mortar 1 : 3	CUM	127. 50
09. 3	Using Bricks of class designation "7. 50"		
09. 3.1	In Cement Mortar 1 : 6	CUM	55. 00
09. 3.2	In Cement Mortar 1 : 5	CUM	68. 20
09. 3.3	In Cement Mortar 1 : 4	CUM	83. 60
09. 3.4	In Cement Mortar 1 : 3	CUM	112. 20
09. 4	Using Bricks of class designation "10. 00"		
09. 4.1	In Cement Mortar 1 : 6	CUM	55. 00
09. 4.2	In Cement Mortar 1 : 5	CUM	68. 20
09. 4.3	In Cement Mortar 1 : 4	CUM	83. 60
09. 4.4	In Cement Mortar 1 : 3	CUM	112. 20



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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
14	BRICK MASONARY Walls/ Partitions 115 mm thick in Foundation and Flinth		
14.1	Using Bricks of class designation "3. 50"		
14.1.1	In Cement Mortar 1 : 4	SQM	10.64
14.1.2	In Cement Mortar 1 : 3	SQM	14.28
14.1.3	In Cement Lime Mortar 1 : 2 : 9	SQM	4.76
14.2	Using Bricks of class designation "5. 00"		
14.2.1	In Cement Mortar 1 : 4	SQM	10.64
14.2.2	In Cement Mortar 1 : 3	SQM	14.28
14.3	Using Bricks of class designation "7. 50"		
14.3.1	In Cement Mortar 1 : 4	SQM	10.64
14.3.2	In Cement Mortar 1 : 3	SQM	14.28
14.4	Using Bricks of class designation "10. 00"		
14.4.1	In Cement Mortar 1 : 4	SQM	9.50
14.4.2	In Cement Mortar 1 : 3	SQM	12.75

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
15	BRICK MASONARY Walls/ Partitions 115 mm thick in Super Structure		
15.1	Using Bricks of class designation "3. 50"		
15.1.1	In Cement Mortar 1 : 4	SQM	10.64
15.1.2	In Cement Mortar 1 : 3	SQM	14.28
15.1.3	In Cement Lime Mortar 1 : 2 : 9	SQM	4.76
15.2	Using Bricks of class designation "5. 00"		
15.2.1	In Cement Mortar 1 : 4	SQM	10.64
15.2.2	In Cement Mortar 1 : 3	SQM	14.28
15.3	Using Bricks of class designation "7. 50"		
15.3.1	In Cement Mortar 1 : 4	SQM	10.64
15.3.2	In Cement Mortar 1 : 3	SQM	14.28
15.4	Using Bricks of class designation "10. 00"		
15.4.1	In Cement Mortar 1 : 4	SQM	9.50
15.4.2	In Cement Mortar 1 : 3	SQM	12.75

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
16	BRICK MASONARY Walls/ Partitions 115 mm thick with RCC 1 : 2 : 4 stiffeners in Super structure		
16.1	Using Bricks of class designation "3. 50"		
16.1.1	In Cement Mortar 1 : 4	SQM	12.60
16.1.2	In Cement Mortar 1 : 3	SQM	15.97
16.1.3	In Cement Lime Mortar 1 : 2 : 9	SQM	7.17
16.2	Using Bricks of class designation "5. 00"		
16.2.1	In Cement Mortar 1 : 4	SQM	12.60
16.2.2	In Cement Mortar 1 : 3	SQM	15.97
16.3	Using Bricks of class designation "7. 50"		
16.3.1	In Cement Mortar 1 : 4	SQM	12.60
16.3.2	In Cement Mortar 1 : 3	SQM	15.97
16.4	Using Bricks of class designation "10. 00"		
16.4.1	In Cement Mortar 1 : 4	SQM	11.55
16.4.2	In Cement Mortar 1 : 3	SQM	14.56
17	HONEY COMB BRICK WORK in CM 1 : 4 in Super structure		
17.1	115 mm thick	SQM	6.27
17.2	230 mm thick	SQM	12.71

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
20	Hollow Cement Concrete Block Masonry in CM 1 : 6 in Foundation and Plinth		
20.1	For 200 mm thick Walls	CUM	23.81
20.2	For 150 mm thick Walls	CUM	24.65
21	Hollow Cement Concrete Block Masonry in CM 1 : 6 in Super structure		
21.1	For 200 mm thick Walls	CUM	23.81
21.2	For 150 mm thick Walls	CUM	24.65
22	Hollow Cement Concrete Block Masonry in CM 1 : 6 in Super structure		
22.1	For 100 mm thick Partition Walls	SQM	2.69
23	Hollow Cement Concrete Block Masonry in CM 1 : 6 with RCC 1 : 2 : 4 stiffeners in super structure		
23.1	For 100 mm thick Partiton Walls	SQM	4.89
24	Brick Masonry in CM 1 : 6 using wire cut bricks with RAT TRAP BOND ( For THUMBA works )		
24.1	For Foundation & Plinth	CUM	47.50
24.2	For Foundation Structure	CUM	47.50

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - C : PLAIN CEMENT CONCRETE

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	Cement Concrete using 40 mm size stone aggregates.		
01.1	In Foundation and Plinth/ Sub - base to floors.		
01.1.1	P. C. C. 1 : 5 : 10	CUM	130.00
01.1.2	P. C. C. 1 : 4 : 8	CUM	170.00
01.1.3	P. C. C. 1 : 3 : 6	CUM	220.00
01.1.4	P. C. C. 1 : 2 : 4	CUM	320.00
01.2	In Walls including attached buttresses		
01.2.1	P. C. C. 1 : 5 : 10	CUM	130.00
01.2.2	P. C. C. 1 : 4 : 8	CUM	170.00
01.2.3	P. C. C. 1 : 3 : 6	CUM	220.00
01.2.4	P. C. C. 1 : 2 : 4	CUM	320.00
01.3	In Piers, Columns, Pillars etc		
01.3.1	P. C. C. 1 : 3 : 6	CUM	220.00
01.3.2	P. C. C. 1 : 2 : 4	CUM	320.00

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
02	Cement Concrete using 40 mm size stone aggregates.		
02.1	In Foundation and Plinth/ Sub - base to floors.		
02.1.1	P. C. C. 1 : 3 : 6	CUM	220.00
02.1.2	P. C. C. 1 : 2 : 4	CUM	320.00
02.1.3	P. C. C. 1 : 1.5 : 3	CUM	400.00
02.2	In Walls including attached buttresses		
02.2.2	P. C. C. 1 : 3 : 6	CUM	220.00
02.2.3	P. C. C. 1 : 2 : 4	CUM	320.00
02.2.4	P. C. C. 1 : 1.5 : 3	CUM	400.00
01.3	In Piers, Columns, Pillars etc		
02.3.1	P. C. C. 1 : 3 : 6	CUM	220.00
02.3.2	P. C. C. 1 : 2 : 4	CUM	320.00
02.3.3	P. C. C. 1 : 1.5 : 3	CUM	400.00
04	Cement Concrete using 20 mm size stone aggregates in BED BLOCKS, WINDOW CILLS, COPING BLOCKS etc.,		
04.1	P. C. C. 1 : 3 : 6	CUM	220.00
04.2	P. C. C. 1 : 2 : 4	CUM	320.00

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( In Kgs )
05	Damp Proof Course with Cement Concrete using 20 mm size stone aggregates		
05.1	P. C. C. 1 : 3 : 6	CUM	220.00
05.2	P. C. C. 1 : 2 : 4	CUM	320.00
06	Damp Proof Course 20 mm thick in Cement mortar 1 : 3 with water proofing Compound	SQM	11.42
08	Cinder concrete in 1 : 5 : 10	CUM	130.00

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - D : REINFORCED CEMENT CONCRETE

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	Reinforced Cement Concrete 1 : 2 : 4 using 20 mm size stone aggregates		
01.1	In Foundation, footing etc.,	CUM	320.00
01.2	In beams, lintels, girders etc.,	CUM	320.00
01.3	In slabs, roofs, suspended floors etc.,	CUM	320.00
01.4	In Walls including attached buttresses etc.,	CUM	320.00
01.5	In columns, pillars, struts	CUM	320.00
01.6	In staircases and steps	CUM	320.00
01.7	In vertical/ horizontal fins, facials and thin sections	CUM	320.00
01.8	In Chajjas with drip moulding in CM 1 : 2	CUM	328.15
01.9	In spiral staircases including landing	CUM	320.00



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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
02	Reinforced Cement Concrete 1 : 1.5 : 3 using 20 mm size stone aggregates.		
02. 1	In foundations, footing etc.,	CUM	400. 00
02. 2	In beams lintels, girders etc.,	CUM	400. 00
02. 3	In slabs, roofs, suspended floors	CUM	400. 00
02. 4	In Walls including attached buttresses etc.,	CUM	400. 00
02. 5	In columns, pillars, struts	CUM	400. 00
02. 6	In staircases and steps	CUM	400. 00
02. 7	In vertical/ horizontal fins, facias and thin sections	CUM	400. 00
02. 8	In Chajjas with drip moulding in CM 1 : 2	CUM	408. 15
02. 9	In spiral staircases including landing	CUM	400. 00
03	Reinforced Cement Concrete 1 : 1 : 2 using 20 mm size stone aggregates.		
03. 1	In foundations, footing etc.,	CUM	610. 00
03. 2	In beams lintels, girders etc.,	CUM	610. 00
03. 3	In slabs, roofs, suspended floors	CUM	610. 00
03. 4	In columns, pillars, struts etc.,	CUM	610. 00

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( In Kgs )
05	Pre cast Reinforced Cement Concrete 1 : 2 : 4 using 20 mm size stone aggregates.		
05. 1	In Kerbs, steps and the like	CUM	364. 84
05. 2	In string Courses, coping bed plates, window cills	CUM	381. 20
05. 3	In slabs, roofs, suspended floors 1.5 mtr clear span coping shelves etc.	CUM	386. 10
06	Applying cement slurry on RCC slabs or Cement Concrete works at 2. 75 Kg/ sqm	SQM	2. 75
09	PCC 1 : 5 : 10 for DUMMY COLUMNS/ BEAMS etc	CUM	130. 00

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - G : STEEL WORK - STEEL JOINERY

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
02	Fixing Aluminium/ steel doors/ partitions/ window/ ventilators etc., in walls with lugs embeded in CC blocks 150 x 100 x 100 mm of 1 : 3 : 6	SQM	1.30
05	Fixing M. S. flat iron door frame with standard M.S. hold fasts embeded in CC 1 : 3 : 6 blocks	KGS	0.38
06	Fixing ordinary type steel doors including embeding the holdfasts in 1 : 3 : 6 blocks.	SQM	1.23
07	Fixing Pivoted steel window/ ventilators embeded in CC blocks 150 x 100 x 100 mm of 1 : 3 : 6 mix.	SQM	1.30
08	Fixing bolten type or equivalent folding mild steel doors etc., in CC 1 : 3 : 6	SQM	1.23
09	Fixing Pressed steel door frames by embeding the lugs in CC 1 : 3 : 6 of 400 x 230 mm/ 345 x 150 mm		
09.1	"A" profile	MTR	4.27
09.2	"B" profile	MTR	4.27
10	Fixing "z" type composite steel fixed glazed ventilators with lugs embeded in CC blocks 150 x 100 x 100 mm of 1 : 3 : 6 mix.	SQM	4.40

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - H : FLOORING

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	Cement Concrete Pavements.		
01.1	I. Using 20 mm size aggregate.		
01.1.1	In C. C. 1 : 3 : 6	CUM	220.00
01.1.2	In C. C. 1 : 2 : 4	CUM	320.00
01.2	I. using 40 mm size aggregate.		
01.2.1	In C. C. 1 : 3 : 6	CUM	220.00
01.2.2	In C.C. 1 : 2 : 4	CUM	320.00
02	IPS Flooring in C.C 1 : 2 : 4		
02.1	25 mm thick (using 12.5 mm size aggregate)	SQM	10.20
02.2	30 mm thick (using 20 mm size aggregate)	SQM	12.20
02.3	40 mm thick (using 20 mm size aggregate)	SQM	15.00
02.4	50 mm thick (using 20 mm size aggregate)	SQM	18.20
02.5	75 mm thick (using 20 mm size aggregate)	SQM	26.20

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
03	Granolithic flooring with base of CC 1 : 2 : 4		
03.1	using Aluminium dividing strips		
03.1.1	40 mm th. with 28 mm base layer	SQM	18.00
03.1.2	50 mm th. with 38 mm base layer	SQM	30.10
03.2	using Glass dividing strips		
03.2.1	40 mm th. with 28 mm base layer	SQM	18.00
03.2.2	50 mm th. with 38 mm base layer	SQM	30.10
04	18 mm thick Granolithic skirting/ dado		
04.1	In Skirting 80 mm high	MTR	1.04
04.2	In dado	SQM	12.97
05	plain Cement Mortar Skirting 20 mm th. in CM 1 : 3		
05.1	In Skirting 80 mm high	MTR	1.13
05.2	In dado	SQM	14.16
06	Precast terrazo tile flooring		
06.1	Over a bed of 25 mm th. LM 1 : 2		
06.1.1	with Grey tiles in dark shades	SQM	9.10
06.1.2	with tiles in medium shades	SQM	6.60
06.1.3	with coloured tiles	SQM	4.40
06.1.4	with Grey chequered step tiles in dark shades	SQM	9.10

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
06. 2	Over a bed 25 mm th. CM 1 : 6		
06. 2.1	with Grey tiles in dark shades	SQM	15. 60
06. 2.2	with tiles in medium shades	SQM	13. 10
06. 2.3	with coloured tiles	SQM	10. 90
06. 2.4	with Grey chequered step tiles in dark shades	SQM	15. 60
07	Precast terrazo tile skirting		
07. 1	with Grey tiles in dark shades		
07. 1.1	In Skirting 125 mm high	MTR	1. 74
07. 1.2	In dado	SQM	13. 94
07. 2	with tiles in medium shades		
07. 2.1	In Skirting 125 mm high	MTR	1. 47
07. 2.2	In dado	SQM	11. 74
07. 3	with coloured tiles		
07. 3.1	In Skirting 125 mm high	MTR	1. 47
07. 3.2	In dado	SQM	11. 74
08	40 mm thick Cast in situ terrazo flooring with base layer 28 mm th. in CM 1 : 3		
08. 1	with Aluminium dividing strips	SQM	24. 42
08. 2	with Glass dividing strips	SQM	24. 42

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
09	18 mm thick skirting/ dado with cost in situ terrazo		
09.1	with Aluminium dividing strips	SQM	12.87
09.2	with Glass dividing strips	SQM	12.87
10	White glazed earthenware tiles over a bed of 12 mm thick in CM 1 : 3 etc.		
10.1.1	In flooring	SQM	10.14
10.1.2	In dado	SQM	10.14
11	SHAHABAD stone slabs over a bed of 20 mm thick in CM 1 : 6		
11.1	In flooring	SQM	12.00
11.2	In dado	SQM	12.00
11.3	In Skirting 80 mm high	MTR	0.96
12	CUDDAPAH stone slabs over a bed of 20 mm thick in CM 1 : 6		
12.1	In flooring	SQM	12.00
12.2	In dado	SQM	12.00
12.3	In Skirting 80 mm high	MTR	0.96

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SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
13	IRONITE flooring		
13. 2	with Glass dividing strips		
13. 2.1	a) 40 mm thick with 12. 5 mm size aggregates	SQM	17. 90
13. 2.2	b) 50 mm thick with 20 mm size aggregates	SQM	30. 00
13. 2.3	c) 60 mm thick with 20 mm size aggregates	SQM	33. 20
15	KOTA stone slab flooring/ skirting over a bed of CM 1 : 4		
15. 1	In flooring	SQM	14. 91
15. 2	In dado	SQM	14. 91
15. 3	In Skirting 80 mm high	MTR	1. 19
16	Brick on edge flooring		
16. 1	Using bricks of class designation 3. 5		
16. 1.1	In CM 1 : 6	SQM	7. 25
16. 1.2	In CM 1 : 4	SQM	11. 02
16. 2	Using bricks of class designation 5. 0		
16. 2.1	In CM 1 : 6	SQM	7. 25
16. 2.2	In CM 1 : 4	SQM	11. 02



\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
20	Ceramic tile flooring/ dado over a bed of 1:2 mm thick in CM 1 : 3		
20.1	In flooring	SQM	10.14
20.2	In dado	SQM	10.14
21	Cement tile flooring over a bed of 25 mm thick in CM 1 : 6		
21.1	Using 20 mm thick cement tiles	SQM	15.60
21.2	Using 22 mm thick cement tiles	SQM	15.60
22	ACID RESISTANT tile flooring over a bed of 1:2 mm thick in CM 1 : 4		
22.1	In flooring	SQM	5.47
23	Ferro cement shelves of thickness specified below in CM 1 : 2		
23.1	25 mm thick shelves	SQM	17.68
23.2	40 mm thick shelves	SQM	28.56

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - I : WOOD WORK AND JOINERY

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( In Kgs )
01	I class Teak wood in frames of doors, windows, ventilators etc.	CUM	183.33
02	Country wood in frames of doors, windows, ventilators etc.	CUM	183.33
28	II class Teak wood in frames of doors, windows, ventilators etc.	CUM	183.33

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - J : ROOFING

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
02	Water proofing treatment with tiles as specified below over a bed of 20 mm thick in CM 1 : 3		
02.1	Using 20 mm thick clay tiles	SQM	15.82
02.2	Using CEMENT tiles		
02.2.1	i) 20 mm thick	SQM	15.82
02.2.2	ii) 22 mm thick	SQM	15.82
06	Over dek thermal insulation treatment over roof with a layer of 15 mm thick in CM 1 : 4		
06.1	a) Using normal density	SQM	6.54
06.2	a) Using high density	SQM	6.54
26	75 mm dia OD PVC pipe water spouts	MTR	1.02
29	Water proofing treatment in three courses	SQM	23.43
30	Making Khurras of size specified below		
30.1	450 x 450 mm size	EACH	6.93
30.2	600 x 600 mm size	EACH	11.74

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
31	PCC 1 : 2 : 4 in GOLA	MTR	6.88
32	Serrated plastering including making step pattern in combination mortar 1 : 1 : 6	SQM	4.30
34	P/L Mangalore tiles over sloped roof	SQM	12.75
35	P/F Ridge tiles over sloped roof	MTR	1.22

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - K : FINISHING

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	Plastering 12 mm thick for internal surface		
01.1	With CM 1 : 6	SQM	3.60
01.2	With CM 1 : 5	SQM	4.46
01.3	With CM 1 : 4	SQM	5.47
01.4	With CM 1 : 3	SQM	7.34
02	Plastering 12 mm thick for external surface		
02.1	With CM 1 : 6	SQM	3.60
02.2	With CM 1 : 5	SQM	4.46
02.3	With CM 1 : 4	SQM	5.47
02.4	With CM 1 : 3	SQM	7.34
03	Plastering 15 mm thick for internal surface		
03.1	With CM 1 : 6	SQM	4.30
03.2	With CM 1 : 5	SQM	5.33
03.3	With CM 1 : 4	SQM	6.54
03.4	With CM 1 : 3	SQM	8.77

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
04	Plastering 15 mm thick for external surface		
04.1	With CM 1 : 6	SQM	4.30
04.2	With CM 1 : 5	SQM	5.33
04.3	With CM 1 : 4	SQM	6.54
04.4	With CM 1 : 3	SQM	8.77
05	Plastering 20 mm thick for internal surface		
05.1	With CM 1 : 6	SQM	5.60
05.2	With CM 1 : 5	SQM	6.94
05.3	With CM 1 : 4	SQM	8.51
05.4	With CM 1 : 3	SQM	11.42
06	Plastering 20 mm thick for external surface		
06.1	With CM 1 : 6	SQM	5.60
06.2	With CM 1 : 5	SQM	6.94
06.3	With CM 1 : 4	SQM	8.51
06.4	With CM 1 : 3	SQM	11.42
08	Water proof cement plastering in CM 1 : 3 for external surfaces		
08.1	20 mm thick	SQM	11.42
08.2	12 mm thick	SQM	7.34

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
09	Sand faced cement plastering 20 mm thick for external surfaces	SQM	9.12
10	Rough cast plastering 20 mm thick for external surfaces	SQM	11.21
12	Pointing on stone work with CM 1 : 3		
12.1	Flush pointing	SQM	1.17
12.2	Ruled or sunk pointing	SQM	1.17
12.3	Raised and cut pointing	SQM	1.94
13	pointing on brick work with CM 1 : 3		
13.1	Flush pointing	SQM	1.53
13.2	Ruled or sunk pointing	SQM	1.53
13.3	Cut or weather struck pointing	SQM	1.53
13.4	Raised and cut pointing	SQM	2.35
34	12 mm thick Clay tile facing on 12 mm thick bed of CM 1 : 3	SQM	10.14
35	Cement punning over RCC/ plastered surfaces	SQM	2.20
37	Making Horizontal/ vertical grooves of size from 6 mm to 12 mm in CM 1 : 3	MTR	0.05

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
56	Plasting top of brick wall within 6 mm thick in CM 1 : 3	SQM	5. 57
57	Lathen plaster in CM 1 : 2		
57. 1	30 mm thick	SQM	21. 66
57. 2	40 mm thick	SQM	28. 71
57. 3	50 mm thick	SQM	35. 76
57. 4	60 mm thick	SQM	42. 81



\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - L : MISCELLANEOUS

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
07	P/L angular file: 7.5 x 7.5 cm in CC 1 : 2 : 4	MTR	0.90

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - O : FENCING AND SERVICES

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	S/L Flat granite stone slab including pointing with CM 1 : 4 etc.		
01.1	50 mm to 75 mm thick slabs	SQM	0.87
01.2	76 mm to 100 mm thick slabs	SQM	0.87
02	P/L Light duty NP - 2 class RCC hume pipes with collers jointed with CM 1 : 2		
02.1	100 mm dia	MTR	0.50
02.2	150 mm dia	MTR	0.60
02.3	225 mm dia	MTR	0.90
02.4	300 mm dia	MTR	1.10
02.5	450 mm dia	MTR	2.40
02.6	600 mm dia	MTR	3.20
02.7	750 mm dia	MTR	3.70
02.8	900 mm dia	MTR	4.90
02.9	1000 mm dia	MTR	5.50

\*\*\* COEFFICIENTS FOR CEMENT CONSUMPTION \*\*\*

SH - Q : MAINTENANCE - REPAIRS TO BUILDING

SOR CODE	Brief Description of Item of work (Refer Schedule of Rates (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. ( in Kgs )
01	Repairs to plaster of thickness 12 mm to 20 mm in patches		
01.1	with CM 1 : 3	SQM	9.33
01.2	with CM 1 : 4	SQM	6.95
01.3	with CM 1 : 5	SQM	5.67
02	Fixing door chowkhat in existing opening in CC 1 : 3 : 6	EACH	11.70
03	Fixing window chowkhat in existing opening in CC 1 : 3 : 6	EACH	5.90
04	Fixing clerestorey window chowkhat in existing opening in CC 1 : 3 : 6	EACH	2.95
11	Repairing the brick facing	SQM	1.43
12	Grouting foundation bolt with CC 1 : 2 : 4	CUM	330.00
15	Cement washing with two coats	SQM	0.30

Co-Efficients for Cement Consumption - PH Works

ODE	Breif Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. (in Kgs)
<u>SH -X Internal PH Works</u>			
.03	Providing and fixing EWC	Each	5.00
.06	Providing and fixing IWC (orissa pattern)	Each	5.00
.09	Providing and fixing IWC (Indian style with foot rest)	Each	5.00
.12	Providing and fixing Wash hand basin	Each	1.50
	Providing and fixing Urinals	Each	1.00
	Providing and fixing Kitchen sink and drain board	Each	3.90
	Providing and fixing Kitchen sink without drain board	Each	2.50
.2	Providing and fixing CP brass waste coupling	Each	1.00
	Providing and fixing Laboratory sink,	Each	1.50
	Providing and fixing Toilet paper holder	Each	0.50
	Providing and fixing Soap tray	Each	0.50
	Providing and fixing Marble partition	Each	2.00
.3	Providng and laying GI pipes for all sizes (Internal works)	Mtr	1.00
.4	Providng and laying GI pipes for all sizes (External works)	Mtr	0.50
.3	Providng and laying Threaded PVC pipes for all sizes (Internal works)	Mtr	1.00
	Providng and laying Threaded PVC	Mtr	0.50

Quantity of Cement to be used per unit Qty. of work. (in Kgs)	CODE	Brief Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. (in Kgs)
6.0		Providing and fixing Gully trap with chamber 300 x 300 mm	Each	57.00
		Construction of Grease trap chamber	Each	167.00
0.7		Construction of Inspection chamber with CI frame and cover		
0.8		450 x 450 x 450 mm	Each	150.00
0.9		600 x 600 x 600 mm	Each	218.00
1.0		600 x 600 x 750 mm	Each	240.00
0.4		Construction of Inspection chamber with RCC frame and cover		
0.5		450 x 450 x 450 mm	Each	175.00
0.5		600 x 600 x 600 mm	Each	252.00
0.6		600 x 600 x 750 mm	Each	274.00
		Construction of Manhole 800 x 800 mm with CI frame and cover	Each	387.00
1.6		Extra for additional depth of manhole 800 x 800 mm	Mtr	202.00
2.5		Construction of Manhole 800 x 800 mm with RCC frame and cover	Each	469.00
4.1		Construction of Manhole 1200 x 900 mm with CI frame and cover	Each	636.00
5.8		Construction of Manhole 1200 x 900 mm with RCC frame and cover	Each	741.00
75.0		Extra for additional depth of manhole 1200 x 900 mm	Mtr	254.00
166.0	1.2	Construction of circular manhole 1400 mm dia with CI frame and cover	Each	746.00
333.0		Extra for additional depth of circular manhole 1400 mm dia	Mtr	430.00
		Construction of circular manhole 1400 mm dia with RCC frame and cover	Each	767.00

CODE	Brief Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. (in Kgs)
35	Providing and fixing CI nahani/Floor trap	Each	6.00 6.0
36	Providing and fixing PVC floor trap	Each	6.00 6.0
39	Making joints to CI soil pipes.		
	50 mm	Each	0.77 0.7
	75 mm	Each	0.86 0.8
	100 mm	Each	0.98 0.9
	150 mm	Each	1.08 1.0
40	Providing and laying CI soil pipes		
	50 mm	Mtr.	0.44 0.4
	75 mm	Mtr	0.50 0.5
	100 mm	Mtr	0.56 0.5
	150 mm	mtr	0.62 0.6
41	Providing and laying Stone ware pipes pipes		
	100 mm	Mtr	1.67 1.6
	150 mm	Mtr	2.50 2.5
	225 mm	Mtr	4.17 4.1
	300 mm	mtr	5.83 5.8
<u>SH-Y-EXTERNAL WATER SUPPLY WORKS</u>			
10	CONSTRUCTION OF VALVE CHAMBER 300 X 300 MM	EACH	75.00 75
11	CONSTRUCTION OF VALVE CHAMBER 600 X 600 MM	EACH	166.00 166
12	CONSTRUCTION OF VALVE CHAMBER 900 X 900 MM	EACH	333.00 333
<u>SH-Z-EXTERNAL SEWERAGE WORKS</u>			

SOR CODE	Brief Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity Cement to used per unit Qty work. (in Kg)
15	Providing Drop Manhole	Each	1
	<u>FOR SHAR WORKS - ADDITIONAL ITEMS</u> <u>SH - S-SHAR MANHOLES AND SULLURPET</u> <u>MANHOLES</u>		
01	Construction of Manhole 1200 x 900 mm with CI frame and cover	Each	701.00 70
02	Extra for additional depth of manhole 1200 x 900 mm	Mtr	339.00 33
03	Construction of Manhole 1200 x 900 mm with RCC frame and cover	Each	735.00 73
04.1,04.2	Construction of circular manhole 1400 mm dia with CI frame and cover	Each	1113.00 111
05	Extra for additional depth of circular manhole 1400 mm dia	Mtr	420 42
06	Construction of circular manhole 1400 mm dia with RCC frame and cover	Each	1135.00 113
07.1,07.2	Construction of circular manhole 1400 mm dia with CI frame and cover	Each	1172.00 117
08	Extra for additional depth of circular manhole 1400 mm dia	Mtr	486.00 48
09	Construction of circular manhole 1400 mm dia with RCC frame and cover	Each	1175.00 117
	<u>SULLURPETA MAN HOLES (FOR WORKS</u> <u>AT KR PALEM)</u>		
10	Construction of Manhole 900 x 600 mm with CI frame and cover	Each	402.00 40
10.1	Construction of Manhole 900 x 600 mm with RCC frame and cover	Each	435.00 43
11	Extra for additional depth of manhole 900 x 600 mm	Mtr	200.00 20
12	Construction of Manhole 1200 x 675	Each	1229.00 12

Quantity  
Cement to  
used per  
unit Qty.  
work.

Quantity (in Kgs)	SOR CODE	Brief Description of Item of work (Refer Schedule of Rate (SOR) for detailed specifications along with corresponding SOR CODE)	Unit	Quantity of Cement to be used per unit Qty. of work. (in Kgs)
11		mm with CI frame and cover		
701	12.1	Construction of Manhole 1200 x 675 mm with RCC frame and cover	Each	1263.00
336	13	Extra for additional depth of manhole 1200 x 675 mm	Mtr	458.00
738	14	Construction of circular manhole 1200 mm dia with CI frame and cover	Each	1439.00
1118	14.1	Construction of circular manhole 1200 mm dia with RCC frame and cover	Each	1460.00
426	15	Extra for additional depth of circular manhole 1200 mm dia	Mtr	546.00

1138  
1722  
486  
1746  
402  
436  
206  
1228

E: \* For SHAR Centre under Sub-head SH-2 - External Sewerage  
for Item - SOR Code No.08 to 13 are not being operated. For  
other centres, the above items are being operated.