

# **K. MAAFUSHI SS14 BOUNDARY WALL**

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**STELCO**



# **BILL OF QUANTITIES**

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**K. MAAFUSHI SS14 BOUNDARY WALL  
STELCO**

*N. S. S. S.*

# **BILL OF QUANTITIES**

## GENERAL CONSTRUCTION WORKS **SUMMARY**

ITEM CODE	DESCRIPTION	AMOUNT (MVR.)
Bill No. 01	• PRELIMINERIES AND GENERAL ITEMS	-
Bill No. 02	• EARTH WORKS	-
Bill No. 03	• CONCRETE WORKS	-
Bill No. 04	• MASONRY AND PLASTERING WORKS	-
Bill No. 05	• PAINTING WORKS	-
Bill No. 06	• METAL WORKS	-
Bill No. 07	• ADDITION / OMISSION ITEMS	-
<b>SUB TOTAL</b>		-
<b>GST (08%)</b>		-
<b>TOTAL AMOUNT IN MRF.</b>		-



## BILL OF QUANTITIES

### GENERAL CONSTRUCTION WORKS

#### FACILITY CONSTRUCTIONS

#### BILL NO. 01 : PRELIMINERIES AND GENERAL ITEMS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
1.1	<b><u>GENERAL NOTES</u></b> <u>Abbreviations</u> m - meter nr - numbers m <sup>3</sup> - cubic meter m <sup>2</sup> - square meter m - Linear meter t - tones incl - including mm - millimeter dia - diameter SS - Stainless Steel GI - Galvanized Iron				
1.2	<b><u>MOBILIZATION AND DEMOBILIZATION</u></b> Establishment of transportation and establishing of all personnel, plants & machineries, tools, equipments, materials and all other necessary items for the execution of the work.	item	1.00		-
1.3	<b><u>SIGNBOARD</u></b> Provide and fix where directed by the employer a signboard with the names and logos of the Owner, Consultants, General Contractor and Nominated Sub/General Contractors and other Specialists. Rate shall include print on a Canvas and fixed to a 2" x 2" timber frame. (Sign board size as 8' X 4')	item	1.00		-
1.4	<b><u>LINE AND GRADE</u></b> The General Contractor shall allow cost for the setting out mark and bench marks including reference elevations for works prior to commencement of any work on site. The General Contractor shall be solely responsible for the accuracy of the setting out and marks.	item	1.00		-
1.5	<b><u>GENERAL CLEAN UP</u></b> Daily removal of debris and unnecessary materials from the project site to the dump site area as designated by the employer. The General Contractor shall allow all costs for proper housekeeping of the project site at all times. Making good of the compacted areas during final completion.	item	1.00		-
1.6	<b><u>DEMOLITION</u></b> Demolition of parts of existing boundary walls	item	1.00		-
<b>TOTAL (PRELIMINERIES AND GENERAL ITEMS) - TO SUMMARY</b>					<b>0.00</b>



## BILL OF QUANTITIES

### GENERAL CONSTRUCTION WORKS

**FACILITY CONSTRUCTIONS  
BILL NO. 02 : EARTH WORKS**

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
2.1	<b><u>GENERAL NOTES</u></b> (a) Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, and disposing surplus soil.				
2.2	<b><u>SITE CLEARING</u></b>				
2.2.1	Clear the area of site from rubbish and vegetable matters, stumps, roots.	item	1.00		-
2.3	<b><u>EXCAVATION</u></b> (a) Excavation quantities are measured to the faces of concrete members. Rates shall include for all additional excavation required to place the formwork.  (b) Excavation for Foundation beams and column footings commencing from ground level. Rate to include leveling and achieve appropriate compaction bottom of foundation before laying concrete.				
2.3.1	Excavation for Foundation beams	m <sup>3</sup>	7.00		-
2.4	<b><u>FILLING</u></b> Rates shall include for: leveling, grading, trimming, compacting to faces of excavation, keep sides plumb, backfilling, consolidating, and disposing surplus soil.				
2.4.1	Back filling existing ground water well (Old and not in use)	item	1.00		-
<b>TOTAL (EARTH WORKS) TO SUMMARY</b>					<b>0.00</b>



# BILL OF QUANTITIES

## GENERAL CONSTRUCTION WORKS

### FACILITY CONSTRUCTIONS

#### BILL NO. 03 : CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
3.1	<b><u>GENERAL</u></b> (a) Rates shall include for: placing in position; making good after removal of formwork and casting in all required items; additional concrete required to conform to structural and excavated tolerances.  (b) Mix ratio for reinforced concrete shall be 1:2:3 (20mm crushed aggregates) and lean concrete shall be 1:2:4 (20mm Crushed aggregates) by volume.				
3.2	<b><u>LEAN CONCRETE</u></b> (a) Quantity is measured to the edges of concrete foundation members. Rates shall be inclusive for any additional concrete required to place the formwork.				
3.2.1	50mm thick lean concrete to bottom of Foundation pad footings and foundation beams. (Grade 20)	m <sup>3</sup>	0.60		-
3.3	<b><u>INSITU CONCRETE (GRADE 25)</u></b>				
3.3.1	Wall footing beam (200 x 350)	m <sup>3</sup>	2.30		-
3.3.2	Stiffner column (200 x 200)	m <sup>3</sup>	1.40		-
3.3.3	Capping beam (200 x 200)	m <sup>3</sup>	1.30		-
3.4	<b><u>FORMWORK</u></b> (a) Rates shall include for: all necessary boarding, supports, erecting, framing, temporary cambering, cutting, perforations for reinforcing bars, bolts, straps, ties, hangers, pipes and removal of formwork.				
3.4.1	Wall footing beam (200 x 350)	m <sup>2</sup>	15.00		-
3.4.2	Stiffner column (200 x 200)	m <sup>2</sup>	27.00		-
3.4.3	Capping beam (200 x 200)	m <sup>2</sup>	15.00		-
3.5	<b><u>REINFORCEMENT</u></b> (a) Rates shall include for: cleaning, fabrication, placing, the provision for all necessary temporary fixings, and supports including tie wire and chair supports, laps, distribution bars and wastage.  (b) All reinforcing bars shall be high strength bars.				



# **BILL OF QUANTITIES**

## GENERAL CONSTRUCTION WORKS

### FACILITY CONSTRUCTIONS

#### BILL NO. 03 : CONCRETE WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
	(c) All reinforcing bars shall be provide as per the detailed drawings.				
3.5.1	Wall footing beam (200 x 350) (a) 12mm Dia bars	m	156.24		-
3.5.2	(b) 6mm Dia bars	m	217.00		-
	Stiffner column (200 x 200)				
3.5.3	(a) 12mm Dia bars	m	178.56		-
3.5.4	(b) 6mm Dia bars	m	182.40		-
	Capping beam (200 x 200)				
3.5.5	(a) 12mm Dia bars	m	156.24		-
3.5.6	(b) 6mm Dia bars	m	173.60		-
<b>3.6</b>	<b><u>DAMPROOF MEMBRANE</u></b>				
3.6.1	Damp proof membrane (gauge 500 plastic sheet lining) beneath ground concrete floorings and cement screed floorings and ramps	m <sup>2</sup>	12.00		-
<b>3.7</b>	<b><u>WATERPROOFING</u></b>				
	Rates shall include for: dressing around and sealing to all penetrations. Apply slurry type waterproofing to all surfaces of concrete below ground level in accordance with manufacturer's instructions.				
3.7.1		item	1.00		-
<b>3.8</b>	<b><u>ADMIXTURE</u></b>				
3.8.1	Allow for concrete additive (RHEOMAC 707 or equivalent) to improve concrete quality and workability as per manufacturers instructions.	item	1.00		-
<b>3.90</b>	<b><u>EMBEDDED GI PIPE</u></b>				
3.9.1	Dia 38 GI pipe embedded to four corner columns with dia 25 rigid conduit pipe for CCTV camera provision	item	1.00		-
<b>TOTAL (CONCRETE WORKS) TO SUMMARY</b>					-

# BILL OF QUANTITIES

## GENERAL CONSTRUCTION WORKS

### FACILITY CONSTRUCTIONS

#### BILL NO. 04 : MASONRY AND PLASTERING WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
4.1	<p><b><u>GENERAL</u></b></p> <p>(a) Rates shall include for: cleaning out cavities, forming rebated reveals and pointing and cleaning down to reveals where necessary; fractional size blocks, all necessary machine cutting, cutting or forming chases or edges of floor slabs, cutting or leaving holes and openings as recesses for and building in pipes, conduits, sleeves and similar as required for all trades; leaving surfaces rough or raking out joints for plastering and flashings, bedding frames or plates, building in joists, bearers or similar, temporary supports to openings, templates, reinforcement in walls and for all necessary making good.</p> <p>(b) Sand for all Mortar shall be river sand.</p> <p>(c) All masonry to concrete joints shall be done after application of fiber mesh.</p>				
4.2	<p><b><u>CEMENT BRICKWORK</u></b></p> <p>300 x 150 x150 mm wide solid blocks made with local sand, laid on and including 1:5 cement sand mortar, compression joint gap filler, plasticizing bonding admixture, fiberglass mesh, masonry ties, as specified (external and internal walls)</p>				
4.2.1	Boundary wall (Hollow blocks)	m <sup>2</sup>	86.00		-
4.3	<p><b><u>PLASTERING</u></b></p> <p>(a) Cement plastering on walls and concrete surfaces as specified incl. water resistant bonding agent, fiberglass/stainless steel mesh at the joints of concrete surfaces and walls. (super-structure)</p> <p>(b) 20mm thick cement plaster using 1:3 cement sand mortar on exterior block walls and concrete surfaces as specified. Rate to include additive of approved quality waterproofing material to the mortar.</p>				
4.3.1	Boundary wall	m <sup>2</sup>	172.00		-
<b>TOTAL (MASONRY AND PLASTERING WORKS) TO SUMMARY</b>					-



# BILL OF QUANTITIES

## GENERAL CONSTRUCTION WORKS

### FACILITY CONSTRUCTIONS BILL NO. 05 : PAINTING WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
5.1	<b><u>GENERAL</u></b> (a) Rates shall include for: the provision, erection and removal of scaffolding, preparation, rubbing down between coats and similar work, the protection and/or masking floors, fittings and similar work, removing and replacing door and window and including soffits and sides of beams. (b) All painting work shall be carried in accordance with the Specifications. (d) All painting materials shall be "Nippon" or equivalent.				
5.2	<b><u>WALL PAINTING</u></b>  Apply one coat of Primer and two coat of weatherproof paint on exterior masonry surfaces.				
5.2.1	Boundary wall exterior painting	m <sup>2</sup>	224.00		-
<b>TOTAL (PAINTING WORKS) TO SUMMARY</b>					-



# **BILL OF QUANTITIES**

## GENERAL CONSTRUCTION WORKS

### FACILITY CONSTRUCTIONS

#### BILL NO. 06 :METAL WORKS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
6.1	<b><u>GENERAL</u></b> (a) Rates shall include for ; all labour in framing, cutting, welding, cleats, baseplates, flanges,screws, nails, bends, and similar complete with grinding, surface smoothening and polish finishes. (b) Gate - Supply, Fabrication and Fixing Roof Trusses complete with Base plates, Bolts, nuts, Washers etc including Paint Finishes. Refer drawing details (c) Rates shall include fabrication and fixing and all other provision (d) Rates shall include application of redoxide paint at all welded connections,  (e.) The cost also includes painting the steel members according to the specification, which is atleast one coat of anti-rust paint followed by 2 additional coats of oil- based painting for all surfaces of the steel members.				
6.2	<b><u>METAL GATES</u></b>				
6.2.1	Fabrication of Staff gate 1200x2400mm as per Drawing (Boundary Wall)	item	1.00		-
<b>TOTAL (METAL WORKS) TO SUMMARY</b>					-



# BILL OF QUANTITIES

## GENERAL CONSTRUCTION WORKS

### BILL NO. 7 : ADDITION / OMISSION ITEMS

ITEM	DESCRIPTION	UNIT	QTY	RATE (MVR.)	AMOUNT (MVR.)
7.1	<b><u>GENERAL</u></b> Please provide a list of any/all items Tenderer believes that should be in the BOQ, but that are not listed or list to be removed. Note that the list should be inclusive of all items.				
<b>TOTAL (ADDITIONAL / OMISSIONAL ITEMS) TO SUMMARY</b>					

