

**MORMUGAO PORT TRUST
ENGINEERING CIVIL DEPARTMENT**

**Name of work : Construction of Compound Wall for cruise Terminal Building
at Harbour.**

TENDER NO. CE/83/2016

SCHEDULE OF QUANTITIES AND RATES

Item no.	Description of item	Unit	Approx. Quantity	Rate (Rs)	Amount (Rs)
1	Earth work excavation in column footings, trenches of wall foundation, etc. in dense or hard soil/murram including removal of obstructions such as small trees, vegetation, etc. and also removal of excavated materials upto a lead of 100m and all lifts upto 1.5m including refilling the excavated trenches with suitable excavated materials as directed by the Chief Engineer or his representative. All materials, equipments, tools & plant, labour, etc. complete.	Cubic metre	155	558.00	86490.00
2	Transporting and dumping surplus excavated/dismantled materials in the low lying areas within a lead of 2.00Km including loading, transporting, dumping, rough levelling, etc. at places as directed by the Engineer in charge. All tools, plant, labour and materials, etc. complete.	Cubic metre	120	182.00	21840.00

3	<p>Providing soling below column footings, wall foundation, , etc. to the required thickness as shown in drawing using 100 to 200mm (avg.) size hard laterite rubble stone including breaking to the required size, laying to necessary levels, hand packing, filling interstices with small stone chips/spalls, required binding materials, watering copiously, ramming, consolidating, all lifts and leads, etc. as directed. All materials, equipment, tools & plant, labour, etc. complete.</p>	Cubic metre	20	1404.00	28080.00
4	<p>Plain Cement Concrete (1:2:4) below footing, wall foundations, kerb stones, etc. using 20mm graded black trap stone metal out of quarried boulders as coarse aggregate, including mixing, depositing, ramming, side shuttering if required, sand screening, leveling, curing, all lifts, leads, etc. as directed complete. All tools, plant, labour and materials etc. complete.</p>	Cubic metre	25	5872.00	146800.00

5	<p>Constructing masonry in foundations of various thickness using precast solid cement concrete block having a minimum crushing strength of 70 kgs. Per sq.cm. (after 28 days curing) and using approved mix not leaner than (1:5:10) with cement not less than 4 bags (200kg) per cubic metre of concrete and using sand and / or crushed stones as fine aggregates and trap aggregate and / or laterite aggregates and / or river pebbles as coarse aggregates, including screening the coarse aggregates if directed, casting of the blocks of appropriate sizes and including providing specially cast block at junctions and corners if directed, all cutting, wastage, etc., block set in C.M. (1:6), raking out joints, curing, etc. as directed etc. All tools, plant, labour and materials, etc. complete.</p>	Cubic metre	55	5854.00	321970.00

6	<p>Constructing masonry in superstructure for masonry walls of 20 cm thickness, using precast solid cement concrete blocks having a minimum crushing strength of 70 kgs. Per sq.cm (after 28 days) and using approved mix not leaner than (1:5:10) with cement not less than 4 bags (200kg) per cubic metre of concrete and using sand and/or crushed stones as fine aggregates and trap aggregate and/or laterite aggregates and/or river pebbles as coarse aggregates including screening the coarse aggregates if directed, casting of the blocks of appropriate sizes and including providing specially cast block at junctions and corners if directed, all cutting, wastage, etc. set in C.M.(1:4), all scaffolding raking out joints, curing, all lifts and leads as directed by Chief Engineer or his representative, etc. All labour & material, tools & plant, etc. complete.</p>	Cubic metre	16	6084.00	97344.00
7	<p>Providing coping of cement concrete (1:2:4) mix using 20 mm black trap stone metal out of quarried boulders as coarse aggregate including mixing, depositing side shuttering consolidating, levelling, curing, etc. All labour, materials, tools & plants, etc. complete.</p>	Cubic metre	12	9363.00	112356.00

8	Providing R.C.C. M30 as per detailed drawing using 20mm graded black trap stone metal out of quarried boulders as coarse aggregate in column footings and columns of any size and shape including mixing, placing, consolidating with mechanical vibrator, leveling, curing, all lifts and leads, sand screening, as directed etc. but excluding cost of form work / shuttering and cost of steel reinforcement. All tools, plant, labour and materials, etc. complete.	Cubic metre	4	7544.00	30176.00
9	Providing, fixing and removing necessary shuttering/ formwork as approved for the RCC members as stated below including necessary strutting props, staging wedges, sealing joints to prevent leakage of slurry, oiling, jointing, all lifts and leads, covering of plates with black colour polythylene sheet to prevent leakage of slurry in case of slab,etc. All tools, plant, labour and materials, etc. complete.				
(i)	Footings for gate columns	Square metre	10.25	343.00	3515.75
(ii)	Gate Columns	Square metre	21.2	538.00	11405.60

10	<p>Providing and fixing reinforcement with high strength deformed cold twisted bars such as 'Torsteel or TMT' (Tor 40) or equivalent steel conforming to I. S. 1786 (latest edition) including cost of steel, cutting, bending, tying with black annealed wire and placing of grills in position, all lifts, leads, providing necessary dowels, overlaps wherever required as per detailed drawing & as directed by Chief Engineer or his representative, etc. complete including the cost of annealed steel wire 1.6 mm dia for tying grills. All tools, plant, labour and materials, etc. complete.</p>	Quintal	3.5	6766.00	23681.00
11	<p>Plastering with c.m.(1:5) 15 mm th. in two coats for external surfaces of masonry/ concrete structures (backing coat of 10 mm and finishing coat of 5 mm) including patches, bays, plaster bands, fluting, scaffolding and cleaning of all dirt, raking out joints, hacking, scrubbing, chamfers, beading, curing all lifts, etc. All labour, materials, tools, plants, etc. complete.</p>	Square metre	220	259.00	56980.00

12	<p>Providing and applying 2 coats of Acrylic Anti-fungal paint to external plastered surface, Apex Ultima Paint of Asian or equivalent make with 5 years warranty or any other approved equivalent quality / approved colour / shade / waterproofing paint over primer as specified by the manufacturer and to give an even surface etc., including preparation of surface, scaffolding, etc., complete at all levels, elevations and heights. The surface should be thoroughly prepared and cleaned before painting to the standards of the paint manufacturer. The painting must be done as per manufacturer's specification and recommendations. All labour, plant, tools and materials, etc. complete and as directed by the Chief Engineer or his representative.</p>	Square metre	220	248.00	54560.00
13	<p>Fabricating and installing S.S 316 grade compound wall railing as per drawing, Verticals 20X20X14 SWG sq tube. On the top of the verticals. Fixing decorative wrought iron top and 20X5mm flat bar at bottom & side one horizontal tube 20X20X14 SWG. Railing height 1000mm up to wall. All labour, materials, tools, plants, transportation, etc. complete.</p>	RM	100	6725.00	672500.00

14	<p>Manufacture and supply S.S 316 swing gate. Outer frame 40X50mmX14 SWG tube. Intermediate verticals tube of 20x20mmx14 SWG on top of the verticals .Fixing decorative wrought iron tops at bottom side frame. Fixing 3mm thick perforated sheet with hinges,tower bolts etc., including providing & fixing locking arrangements, wheel and guide arrangement,3 nos heavy duty hinges for each column with anchorage into RCC column,as per direction complete. All labour, materials, tools, plants, etc. complete.</p>	Square feet	170	1875.00	318750.00
15	<p>Providing and fixing factory made pre-cast Kerb Stones 600 mm x 450 mm x 150 mm of M25 grade form finished, well cured, free of any defect as per approved shape (battered / rounded at top), work include required excavation, consolidation, PCC 1:3:6 for bedding, required shuttering, jointing with cement mortar 1:6 and pointing with 1:2 cement mortar, curing the assembly, backfilling the surround to original with proper compaction, cleaning, painting. All tools, plant, labour, material, etc. complete to the entire satisfaction of the Chief Engineer or his representative.</p>	RM	100	634.00	63400.00

16	Providing and laying interlocking concrete paving blocks of approved pattern 60 mm thick over a layer of sand cushion of 50mm, preparing the surface, etc. including spreading sand, laying the blocks to required slope, levelling, compacting, filling the joints with dry sand, cleaning the surface, cutting the blocks using power operated tools, vibrating the surface with mechanical vibrator, etc. All labour, materials, tools, plants, etc. complete.	Square metre	500	799.00	399500.00
17	Supplying and laying PVC pipes 12/15 mm dia. of 'ASTRAL/ PRINCE' brand or equivalent approved make/quality pipe for cabling for connecting light fixtures above gate columns , including joining with all specials, all cutting threading, and joining materials , embedding the pipe inside RCC column during concreting ,etc. as directed. All tools, plant, labour and materials including cost of pipes and specials, etc. complete.	RM	45	198.00	8910.00
18	Supplying, transporting, dumping, spreading etc. of the garden earth of approved quality to the location as directed by the Chief Engineer or his representatives for planters ,including all tools, plant, labour material complete.	Cubic metre	30	1500.00	45000.00

TOTAL AMOUNT OF TENDER " A"

Rs. 25,03,258.35

TOTAL AMOUNT ' A ' = Rs. 25,03,258.35

Total amount in words (Rupees Twenty five lakhs three thousand two hundred fifty eight and paise thirty five only).

ADD _____ % (In Figures)

In words _____

(C) Amount (In Figures) _____

In words _____

NET QUOTED AMOUNT A + C i.e. Rs. _____

Rupees _____

OR

DEDUCT _____ % (In Figures)

In words _____

(D) Amount (In Figures) _____

In words _____

NET QUOTED AMOUNT A - D i.e. Rs. _____

Rupees _____

SCORE OUT EITHER "ADD" OR "DEDUCT" AS THE CASE MAY BE"

TOTAL TENDER AMOUNT

Rs. (in figures)

Rupees (in words)

It is certified that I/we have written the unit
Name and Address of the Tenderer

Authorised Signatory

Company Seal