



Ottangthangal

Verbetering toiletgebouw voor de boarding, eindrapport
Oktober 2021



Ottangthangal

Project Safe&Clean 7

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Stichting Thomas Bouwprojecten

Secretariaat	Wilma Martens Liefink Langeakker 29, 5735 HD Aarle-Rixtel
Telefoon	+31 (0) 492 38 26 39
Mobiel	+31 (0) 6 2028 0243
E-mail	secretariaat@thomasbouwprojecten.nl
Website	www.thomasbouwprojecten.nl
Rabobank	IBAN : NL47 RABO 0149 3087 87
ING	IBAN : NL52 INGB 0000 3003 66
Kamer van Koophandel Eindhoven	nr. 41 09 25 42
Fiscaal nummer ANBI (RSIN)	8015.85.077





Inleiding

Het Safe&Clean programma van Stichting Thomas Bouwprojecten heeft als doel om ernstige tekortkomingen van sanitaire voorzieningen in de scholen en kindertehuizen van de Franciscan Sisters of St. Joseph in Chennai, India op te lossen.

In het project in Ottangthangal is een toiletgebouw van de boarding hersteld en een nieuwe zinkput en een septic tank toegevoegd

U treft hieronder het eindrapport van dit project aan.

Namens het bestuur en de kinderen in India danken wij u als donateur voor het mogelijk maken van dit project.

Leo Verhagen, bestuurslid
Jos Dijkers, projectleider
Sterre Maessen, projectleider



Ottanthangal. De situatie

Op de boarding te Ottanghtangal, verblijven gedurende de schooltijden 15 jongens en 13 meisjes.

De toiletten verkeren in slechte staat en moeten gerepareerd worden. Voor de afvoer moet er een nieuwe septic tank en een nieuwe zinkpunt aangebracht worden.

De kosten worden naar eerste schatting ongeveer €6.000 bedragen.

Projectverloop

September 2020: specificatie en eerste kostenschatting

Februari 2021: mogelijk probleem met de landeigenaar. Daarna opgelost.

Februari 2021: offerte aangevraagd bij aannemer Stephen.

Maart 2021: opdracht gegeven aan Stephen

April-augustus 2021: lockdowns en werkzaamheden

September 2021: bouw voltooid.

11 september 2021: inzegening

Ottanthangal. De kosten.

	INR	€
Begroting:		6000
Renovatie toiletten		2900
Soak pit		630
Septic tank		2400
Totaal:		5930
Werkelijke kosten:	515540	5993
Overschot:	677	7

Het project is dus binnen de begroting gebleven.

PRINCY CONSTRUCTIONS

No: 231 Annai illam, Kalakodi street, Tenkasi.

PH NO: 9940596988

Construction of New Toilet building for boarding at odanthangal

stephen

SL.No	Description	Qty	Unit	Rate (Rs.)	Amount (Rs.)
1.00.00	Demolition				
1.01.00	Tree cutting and root clearing		LS	15000.00	15000.00
2.00.00	EARTH WORK				
2.02.00	Earth work excavation in all soils and in hard laterite including soft rock which can be chiselled / cut out using Jack hammers or pickaxes including back filling in foundation with good soil and consolidating with power rammers and disposal off of surplus excavated materials within a lead upto 50 m. Disposed materials to be levelled and neatly dressed as directed. Rate to include for all necessary shoring, strutting and bailing out water if necessary.				
2.02.01	Upto 2 m depth below datum level (.....)	47.19	cum	173.08	8167.93
2.02.02	Disposing off surplus excavated materials beyond the lead of 50m and up to 2 Km lead including spreading and levelling up.		cum	260.00	0.00
2.03.00	Filling in foundation and in plinth, under floors and in trenches etc., with river sand in layers of 150mm thick including watering, ramming with power rammers and consolidating dressing etc., with all lifts and leads complete.	20.43	cum	1469.02	30017.28
2.04.00	-do- but with Pit sand		cum	749.02	0.00
2.05.00	Providing and injecting chemical emulsion for Pre-construction anti-termite treatment (should be carried out in accordance to I.S No.6313 (Part II) 1981) and create a chemical barrier under and around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junction of wall and floor, along the external perimeter of building, expansion joints, surrounding of pipes, conduits etc. with all leads complete (plinth area of the building at ground floor only shall be measured). The treatment is to be guaranteed for a period of 10 years from date of completion and is to be executed by an approved specialised agency.				
	Chemicals Concentration				
	HEPTACHLOR 0.5% (by weight)				
	CHLORPYRIFOS 1% (by weight)	29.93	sqm	110.00	3291.93
	Subtotal 2				41477.14

For PRINCY CONSTRUCTIONS


Proprietor

3.00.00	PLAIN CEMENT CONCRETE WORK				
3.01.00	Providing and laying plain cement concrete as levelling course under footings of columns, plinth beams including costs of the cement, necessary form work & shuttering, all materials machine mixed and vibrated where necessary, labour for ramming with power rammers, consolidating, curing, etc., with all leads and lifts etc., complete.				
3.01.01	P.C.C. of mix 1:5:10 (1 cement : 5 coarse sand : 10				
3.01.02	graded stone aggregate of 40 mm size) in foundations -do- under floors using 25 mm graded stone aggregate	3.44	cum	5197.36	17876.11
	Subtotal 3				17876.11
4.00.00	REINFORCED CEMENT CONCRETE WORK				
4.00.01	Note: Minimum cement content for M-20 concrete is 320 kg/cum, M-25 Concrete is 360 kg/cum. All RCC to be controlled concrete machine mixed and duly vibrated. All RCC members are of any shape and size. Reinforced cement concrete work in grade M-20 /M25 concrete with cement, coarse sand, graded stone aggregate 20mm including the costs of cement, labour, materials, consolidating by vibrators, curing etc., with all leads complete, but excluding the cost of reinforcement, and form work.				
4.01.01	M-25 Grade	15.85	cum	7450.26	118070.00
4.11.00	Reinforced Cement Concrete of M25 using cement, coarse sand graded stone aggregate (20mm size) for over head water tank including addition of water proofing compound as per manufacturer's specifications with all leads and lifts including the cost of cement, necessary labour, materials, compaction by vibration, curing, etc., complete, but excluding the cost of form work and reinforcement.				
	M30				0.00
4.11.02	column		cum	5539.93	0.00
	Subtotal 4				118070.00
5.00.00	SHUTTERING:				
5.00.01	Providing and erecting in position form work with all leads and lifts at all floor levels and removal after setting of concrete, period as per IS code and making good the area for				
5.02.01	Plinth Beams/Tie beams/Roof	80.13	Sqm	564.00	45195.46
	Subtotal of 5				45195.46

For PRINCY CONSTRUCTIONS


Proprietor

6.01.00	Providing and cutting straightening and bending to shape, fabricating, placing and binding in position. Mild Steel bars conforming to latest IS 432/Cold twisted deformed bars confirming to IS specifications, IS 1786 and Fe415 grade as reinforcement for all reinforced cement concrete works at all heights and with all leads and lifts complete in all respects, including supplying and tying with 18 gauge M.S wire providing and fixing cement cover blocks, all materials including cost of reinforcement bars and labours complete all as per drawings and specifications.				
6.01.01	Mild steel		MT		0.00
6.01.02	Tor Steel (TMT Bars)	1.50	MT	72447.50	108671.25
	Subtotal of 6				108671.25
7.00.00	BRICK WORK				
7.01.00	Brick work in basement and super-structure using Good quality table moulded chamber burnt Bricks with strength 35-50 kgs / sqcm in cement mortar (1cement : 5coarse sand) laid to line and levels including all leads and lifts, for all floor levels wetting the bricks properly by immersing in water before laying, curing, scaffolding, all materials, labour complete, including the cost of cement.				
7.03.02	Ground floor, first floor	15.16	cum	6312.45	95682.18
7.04.00	Half brick masonry walls using Good quality table moulded chamber burnt Bricks with strength 35-50 kgs/sqcm of super structure above plinth level in cement mortar 1:4 (1 cement: 4 coarse sand) including all leads and lifts for all floors, supply and placing of 25mm x 16 gauge hoop iron for every fourth course of half brick masonry wall, including curing, scaffolding, all materials labour etc., complete at all floor levels including the cost of cement.				
845	First Floor			1015.00	0.00
	Subtotal of 7				95682.18
8.00.00	PLASTERING NOTE: Inside walls and ceilings, Any unevenness / undulations to be made good with putty like Altek/wallkote/ Fresco at no extra cost. Architects decision is final in this matter.				
8.01.00	INTERNAL WALLS				
8.01.00	Preparing surface of walls and providing and applying 15mm thick cement plaster of mix 1:4 (1 cement : 4 fine sand) to walls (interiors) finished smooth in all floors in line and level without undulations as per specifications including costs of cement, all materials , labour, scaffolding, curing, sand screening, setting out butter mark for levels for plastering with all leads and lifts.				
8.01.02		105.29		343.58	36173.51

For PRINCY CONSTRUCTIONS

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Proprietor

8.02.00	Providing rough plastering for dado backing in CM 1:6 12mm thick for fixing, granite slabs, marble, tiles at all levels including rough finishin to line and plub, the cost of scaffolding, curing, lead and lifts etc, complete for walls including scarifying the surface to receive the tiles.				
8.02.01		105.29	sqm	260.00	27374.26
8.04.00	EXTERNAL WALLS				
8.04.01	Providing and applying 20mm thick cement plaster of mix 1:5 (1 cement : 5 fine sand) to external wall surfaces in two coats including costs of all materials, labour , screening sand, setting out batten marks for levels for plastering, forming grooves in elevation as indicated in drawings. Rate also including the cost of cement, scaffolding, curing etc., complete with all leads and lifts at all floor levels.	90.03	sqm	455.00	40963.74
	Subtotal of 8				104511.51
9.00.00	CEILINGS & SHADES				
9.01.00	Plastering Ceilings and Concrete faces: All exposed areas of concrete are to be hacked and plastered with CM 1:3(1 cement : 3 fine sand), 12 mm thick including costs of the cement, necessary scaffolding, sand screening, setting all levels for plastering, curing, etc., complete with all leads and lifts at all floor levels.				
9.01.02		27.88	sqm	300.00	8362.50
	Subtotal of 9				8362.50
10.00.00	WALL FINISHES				
10.01.00	INTERNAL				
10.00.01	Prepare the surface of Internal walls, beams, column, fins, ceiling etc, and apply two coats of Asian brand Acrylic Tractor Emulsion of approved make and shade over one coat of appropriate primer including preperation of surface, necessary sand papering, scaffolding etc., complete with all leads and lifts and as directed by Architect / Engineer in charge.				
10.01.02	Ground Floor, first floor	133.16	sqm	337.96	45002.42
	EXTERNAL:				0.00
10.02.00	Providing and applying external grade emulsion in approved colour and brand external wall faces including preparation of surface, appropriate one coat primer and ollowed by two coats of emulsion, raking of existing grooves etc., applied as per manufactuer's instructions complete and Architect instruction	90.03	sqm	420.00	37812.68
	CEILINGS & SHADES				
	Subtotal of 10				82815.11
12.00.00	Joinery				0.00
a	Out Side door Galvanised steel with a steel sheet at out side over the total height	40.71	sqm	420.00	17098.20
12.08.00	Ventilators Cement jally	12.50	sqm	150.00	1875.00
	Subtotal of 12				18973.20

13.00.00	Flooring				
13.05.00	Proving and laying to patten, homogeneous Anti-skid Ceramic tiles flooring using tiles of approved size , colour and make or equivalent over 20mm thick or more cement mortar bed to make up required finished floor level of 1:4 mix including pointing with the matching clour pigment cement, acid washing, epoxy grout of laticrete base, Hairline joints etc., complete(Toilet) DADOING	25.00	sqm	821.40	20535.00 0.00
13.14.00	Providing and fixing Coloured glazed designer tiles for dado using tiels of approved size, make and colour, in dado on walls, etc. over 1:4 cement mortar 15mm thick base including finishing joints with matching colour pigment cement, washing with dilute acid, curing, necessary spacers to ensure uniform joints Epoxy grout of Laticrete base, Hairline joints, etc. complete, with all lead and lift and as directed by Architect/ Engineer in charge. This shall include PVC beading at all corner, spacers etc.	53.28	sqm	979.00	52161.12
	Subtotal of 13				72696.12
14.00.00	MISCELLANEOUS				
14.06.00	Providing and laying Cement based Water proofing treatment for Terrace and Parapet wall sides (vatta) with brick bat coba top finished with neat plastering required slop as per the specifications including the cost of all materials, brick bats, sand, chemicals (ISO approved), labour, curing, etc., with all leads and lifts including the cost of cement.				
14.06.01		42.10	sqm	564.50	23763.53
14.07.00	Plaster top surface of sunken portion concrete with CM1:3, 20 mm thick with approved water proofing compound added and after the surface has thoroughly dried and apply to the prepared the surfaces approved two pack polyurethane based coating system as per manufacturers specification. (Ezecoat or the like make to be approved by Architect) and apply plaster of 12mm thick in CM 1:3 mixed approved water proofing compound as a protective layer. with all leads and lifts including the cost of cement.				
14.07.01		42.10	sqm	461.00	19406.53
14.08.00	Providing brick jelly cement concrete in mix 1:2:4 (1 cement: 2 coarse sand: 4 brick jelly) well mixed and lie to sunken portions with required slope and level all materials and labour complete with all leads and lifts but excluding the cost of cement.				
14.08.01		16.84	cum	2083.59	35084.74
					78254.80
	Total				792,585
	Plubing work				22,500.00
	Electrical work				10,000.00
	Grand Total				825,085

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For PRINCY CONSTRUCTIONS



Het project in beeld



Beschadigingen oude situatie





Mei 2021: Funderingen soakpit







Soakpit en septic tanks langs de
rand van het gebouw



Watervoorziening op dak voor
badkamer



