

Koothambalam work - Non-tendered items				
SNo	Description	Unit	Rate/Unit Rs	
(1)	(2)	(3)	(4)	
28.2	Brick work	Cum	6064	
28.3	Cornice work	RM	200	
29	Wooden louver at auditorium and balcony floor	Sqm	4679	
30	Teak wood cost difference	Cum	18380	

Koothambalam work - Non-tendered items				
SNo	Description	Unit	Rate/Unit Rs	
(1)	(2)	(3)	(4)	
16	Providing and fixing teak wood cutter in valley area for the roof in 1" plank including nailing all etc.(Refer P. 13 Extra work MB 1)	Sqm	4,652.00	
17	Fabrication work in stage area			
17.1	Fabricating and erecting angular section steel above the stage area as per Drawing given by Architect with 75 x 75 x 5 mm and 50 x 50 x 5 mm section (Rates as per tender item No.119)	Kg	112.00	✓
17.2	Fabricating and erecting the existing available GI pipe at intermediates of the grid as per drawing.	Kg	40.00	✓
17.3	Providing and fixing 50 x 50 mm spacing of 3 mm weld mesh over angeles (rates as per tender item No.122)	Kg	125.00	✓
18	Prepare surface and apply three coats of enamel paint over one coate of primer (rates as per tender item no.159)	Sqm	140.00	✓
19	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:1 1/2 : 3 nominal mix (1.5 m below and upt 1.2 m above G.L) (Refer P.No. MB 2)	Cum	5,411.60	✓
20	Providing and fixing 75 mm 6 guage PVC pipe for temporary re routing water line behind the koothambalam (Refer P.No.17 extra work MB 1)	RM	255.00	✓
21	Providing and laying besser block masonry work of size 400 x200 x 200 and cement mortar 1:4 for gallery step work	Sqm	838.00	
22	Fabricating and bending to form circular cyclinder for jet nozzles for AC work with 3.2 mm thick MS sheet kept in position	No	2,127.97	
23	Teak wood louver for bird mesh as per details			
23.1	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 frames and 30x 20 woodenlouvers both sides including fixing position etc.,	Sqm	174.37	
23.2	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 frames and 30x 20 woodenlouvers single sides including fixing position etc.,	Sqm	83.19	
23.3	Small size	Sqm	22.96	
24	Fabricating 50 x 50 mm MS angles with 50 x6 mm flat for parapet fin concrete at all balcony railings	Kg	112	✓
25	Providing and fixing GI sheet gutter with multiples all around and fixing in position	RM	1815	
26	Marking inside and out side survery work	Job	125000	
27	statue pedestal	No	1000	
28	Athistanam work			
28.1	PCC work	Cum	4527	

Koothambalam work - Non-tendered items				
SNo	Description	Unit	Rate/Unit Rs	
(1)	(2)	(3)	(4)	
1	Providing and apply 2 coats of Linseed oil for battens and rafter on the roof area.(Refer P.No.6 Extra work MB 1)	Sqm	110.00	✓
2	Removing and handing over the Kalasam (big) Refer P.No.6 Extra work MB1	No	3,000.00	✓
3	Removing and handing over the Kalasam (small) Refer P.No.6 Extra work MB1	No	2,000.00	✓
4	Dismantling and removing statue and handing over to the client(Refer P.No.7 extra work MB 1)	No	200.00	✓
5	Dismantling the existing name stone on hanling over to the client(Refer P.No.7 extra work MB 1)	Nos	500.00	✓
6	Clearing and carting away the existing debris.(Refer P.No.7 Extra Work MB1)	1 Load	1,200.00	
6.1	Clearing and carting away the existing debris I unit.(Refer P.No.7 Extra Work MB1)	1 Load	600.00	
7	Prepare surface and fix 50 mm x 50 mm welded mesh of 2.5 mm thick and blow cm1:3 for 40 mm to 50 mm thick with rough course sand with grouting compound by air compressor and guniting equipent.(Refer P.No.8 Extra Work MB 1)	Sqm	1,200.00	✓
8	Stage work for Kalasam fixing area.(Refer P.No.8 extra work MB 1) - 2 areas	No	30,250.00	✓
9	Kalasam fixing - 2 Nos.	No	10,895.00	✓
10	Crane hire charges and fabricating angular cage with 75 mm x 75 mm existing 1" pipe	No	79,678.00	✓
11	Providing scaffolding for AC duct and electrical work.(Refer P.No. 9 Extra work MB1)	Sqm	50.00	✓
12	Providing and fixing eves board as design as existing flower pattern in 1" thcik teak wood plank.(Refer P.No.10 extra work MB 1)	RM	2,231.00	
13	Providing and fixing anutone board with silver wood planks all over the shuttering edges including tying with GS wire to embed in the roof concrete.(Anutone Board supplied by client at free of cost)Refer P.10 Extra work MB1)	Sqm	100.00	✓
14	Supply of teak wood for Kalakshetra Foundation carpenter for Kalasam moulding (Refer P.No.11 Extra Work MB 1)	Cum	1,26,776.00	
15	Providing and fixing re bar grouting to the existing beams and slab with Hilti chemical for green room area.(Refer P.No. 11 Extra Work MB 1)			
15.1	16 mm dia Rod	No	233.00	✓
15.2	20 mm dia Rod	No	472.00	✓
15.3	12 mm dia Rod	No	149.50	✓
15.4	10 mm dia rod	No	113.60	✓

Koothambalam work - Non-tendered items				
SNo	Description	Unit	Rate/Unit Rs	
(1)	(2)	(3)	(4)	
17.1	Fabricating and erecting angular section steel above the state area as per Drawing given by Architect with 75 x 75 x 5 mm and 50 x 50 x 5 mm section (Rates as per tender item No.119)	Kg	112.00	
17.2	Fabricating and erecting the existing available GI pipe at intermediates of the grid as per drawing.	Kg	40.00	
17.3	Providing and fixing 50 x 50 mm spacing of 3 mm weld mesh over angeles (rates as per tender item No.122)	Kg	125.00	
18	Prepare surface and apply three coats of enamel paint over one coate of primer (rates as per tender item no.159)	Sqm	140.00	
19	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:1 1/2 : 3 nominal mix (1.5 m below and upt 1.2 m above G.L) (Refer P.No. MB 2)	Cum	5,411.60	
20	Providing and fixing 75 mm 6 guage PVC pipe for temporary re routing water line behind the koothambalam (Refer P.No.17 extra work MB 1)	RM	255.00	
21	Providing and laying besser block masonry work of size 400 x200 x 200 and cement mortar 1:4 for gallery step work	Sqm	838.00	
22	Fabricating and bending to form circular cyclinder for jet nozzles for AC work with 3.2 mm thick MS sheet kept in position	No	2,127.97	
23	Teak wood louver for bird mesh as per details			
23.1	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 frames and 30x 20 woodenlouvers both sides including fixing position etc.,	Sqm	174.37	
23.2	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 frames and 30x 20 woodenlouvers single sides including fixing position etc.,	Sqm	83.19	
23.3	Small size	Sqm	22.96	
24	Fabricating 50 x 50 mm MS angles with 50 x6 mm flat for parapet fin concrete at all balcony railings	Kg	112	
25	Providing and fixing GI sheet gutter with multiples all around and fixing in position	RM	1815	
26	Marking inside and out side survery work	Job	125000	
27	statue pedestal	No	1001	
28	Athistanam work			
28.1	PCC work	Cum	4527	
28.2	Brick work	Cum	6064	
28.3	Cornice work	RM	200	
29	Wooden louver at auditorium and and balcony floor	Sqm	4679	
30	Teak wood cost difference	Cum	18380	

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Koothambalam work - Non-tendered items				
SNo	Description	Unit	Rate/Unit Rs	
(1)	(2)	(3)	(4)	
1	Providing and apply 2 coats of Linseed oil for battens and rafter on the roof area.(Refer P.No.6 Extra work MB 1)	Sqm	110.00	
2	Removing and handing over the Kalasam (big) Refer P.No.6 Extra work MB1	No	3,000.00	
3	Removing and handing over the Kalasam (small) Refer P.No.6 Extra work MB1	No	2,000.00	
4	Dismantling and removing statue and handing over to the client(Refer P.No.7 extra work MB 1)	No	200.00	
5	Dismantling the existing name stone on hanling over to the client(Refer P.No.7 extra work MB 1)	Nos	500.00	
6	Clearing and carting away the existing debris.(Refer P.No.7 Extra Work MB1)	1 Load	1,200.00	
6.1	Clearing and carting away the existing debris I unit.(Refer P.No.7 Extra Work MB1)	1 Load	600.00	
7	Prepare surface and fix 50 mm x 50 mm welded mesh of 2.5 mm thick and blow cm1:3 for 40 mm to 50 mm thick with rough course sand with grouting compound by air compressor and guniting equipent.(Refer P.No.8 Extra Work MB 1)	Sqm	1,200.00	
8	Stage work for Kalasam fixing area.(Refer P.No.8 extra work MB 1) - 2 areas	No	30,250.00	
9	Kalasam fixing - 2 Nos.	No	10,895.00	
10	Crane hire charges and fabricating angular cage with 75 mm x 75 mm existing 1" pipe	No	79,678.00	
11	Providing scaffolding for AC duct and electrical work.(Refer P.No. 9 Extra work MB1)	Sqm	50.00	
12	Providing and fixing eves board as design as existing flower pattern in 1" thcik teak wood plank.(Refer P.No.10 extra work MB 1)	RM	2,231.00	
13	Providing and fixing anutone board with silver wood planks all over the shuttering edges including tying with GS wire to embed in the roof concrete.(Anutone Board supplied by client at free of cost)Refer P.10 Extra work MB1)	Sqm	100.00	
14	Supply of teak wood for Kalakshetra Foundation carpenter for Kalasam moulding (Refer P.No.11 Extra Work MB 1)	Cum	1,26,776.00	
15	Providing and fixing re bar grouting to the existing beams and slab with Hilti chemical for green room area.(Refer P.No. 11 Extra Work MB 1)			
15.1	16 mm dia Rod	No	233.00	
15.2	20 mm dia Rod	No	472.00	
15.3	12 mm dia Rod	No	149.50	
15.4	10 mm dia rod	No	113.60	
16	Providing and fixing teak wood cutter in valley area for the roof in 1" plank including nailing all etc.(Refer P. 13 Extra work MB 1)	Sqm	4,652.00	
17	Fabrication work in stage area			

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SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
28.1	P.C.C Work	Cum		05.26	4521.00	23,812.00		05.26	23,812.00	
28.2	Brick work	Cum		15.79	4619.00	24,295.94		15.79	24,295.94	
28.3	Cornices work - decorative plaster labour	Rmt	Pmt 924/-	789.3	6054.00	4,766,476.90		789.3	4,766,476.90	
29.	Wooden louver at auditorium and balcony floor	Sqm		38.2	4679.00	1,78,737.80		38.2	1,78,737.80	
30.	Teak wood cost differences	L.S.	24,701/-	41.50	6055.00	2,31,301.00		41.50	2,31,301.00	
	Total				18,522.00	7,68,663.00			7,68,663.00	
	Deduction				18380.00	58,81,778.86			58,81,778.86	
	(a) Less: 5% retention on Rs.					54,28,981.13			54,28,981.13	
	(except item no 8 to 11 & 14)					54,28,981.13			54,28,981.13	
	Total deduction (-)					54,28,981.13			54,28,981.13	
	b. deduct payment upto bill 3 and part 4 in bill value, Retention					2,71,449.00			2,71,449.00	
	Balance					1,69,509.00			1,69,509.00	
	Additions:									
	(1) Service tax 4.12% of total value of work done					20,80,644.00			20,80,644.00	
	(+)					1,77,073.10			1,77,073.10	
	Balance payable					17,93,143.00			17,93,143.00	
						Rs. 17,93,143.00			Rs. 17,93,143.00	
						2,23,674.00			2,23,674.00	
						1,45,908.23			1,45,908.23	
						1,51,833.00			1,51,833.00	
						15,90,652.00			15,90,652.00	
						18,70,908.77			18,70,908.77	



Rs. 18,70,909/-

(Rupees Fifteen lakhs ninty thousand six hundred and fifty-two only)

for CHENNAI ENGINEERS
Proprietor:

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

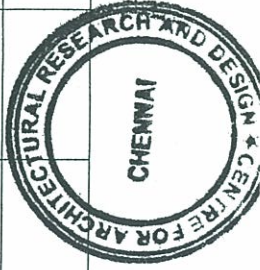
SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
23.1	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 mm frames and 30 x 20 wooden louvers both sides including fixing in position etc.	Sqm		174.37 174.46	5586.00	9,74,533.56 9,74,533.56	76.30	4,26,211.80	98.07 98.16	5,47,819.02 5,48,321.76
23.2	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 mm wooden frames and 30 x 20 wooden louvers single side including fixing in position etc.	Sqm		83.19	3964.00	3,29,765.16	3964.00	3,29,765.15		
23.3	Small size	Sqm		22.96	4204.00	98,819.84				98,819.84
24.	Fabricating 50 x 50 angles with 50 x 6 mm flat for parapet fin concrete at all balcony railings	Kg		914.99	112.00	1,02,478.88	914.99	1,02,478.88		
25	Providing and fixing GI sheet gutter with multiples all around and fix in position	rmt		36.09	1815.00	65,503.35	36.09	65,503.35		
26	Marking inside and out side including the levels taken by survey (bill enclosed)	Is				1,25,000.00				1,25,000.00
27.	Statue pedestal	No.		35	1000.00	35,000.00			35	35,000.00
28.	Athistanam Work					17,500.00				17,500.00



No.69, 2nd Cross Street, Srinivasa Nagar, Kullathur, Chennai - 600 099.
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SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
19.	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:1½:3 nominal mix(1.5m below and upto 1.2m above G.L)	Cum		77.46	5,411.60	4,19,182.54	77.46	4,19,182.54		
20.	Providing and fixing 75mm 6 guage PVC pipe for temporary re-routing water line behind the Koothambalam.	Rmt		65.55	255.00 250.00	16,715.25	65.55	16,715.25		
21.	Providing and laying besser block masonry work of size: 400 x 200 x 200 and cement mortar 1:4 for gallery step work	Sqm		51.68	838.00	61,810.88	51.68	43,307.84	22.08	18,503.04
22.	Fabricating and bending to form circular cylinder for jet nozzles for AC work with 3.2mm MS sheet kept in position	No\$		42	2127.97	89,374.74	2127.97	89,374.74		
23.	Teak wood louver for bird mesh as per details									



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No.69, 2nd Cross Street, Srinivasanagar, Kulathur, Chennai – 600 099.

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SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
17.	Fabrication work in stage area									
17.1	Fabricating and erecting Angular section steel above the State area as per Drawing given by architect with 75 x 75 x 5mm and 50 x 50 x 5mm section (rates as per tender item No. 119)	Kg ✓		3378.51 ✓	112.00 ✓	3,78,393.12 ✓	3378.51 ✓	3,78,393.12 ✓		
17.2	Fabricating and erecting the Existing available GI pipe at intermediates of the grid as per Drawing.	Kg ✓		675 ✓	40.00 ✓	27,000.00 ✓	675 ✓	27,000.00 ✓		
17.3	Providing and fixing 50 x 50mm spacing of 3mm weld mesh over angles (rates as per tender item No. 122)	Kg ✓		658.69 ✓	125.00 ✓	82,336.25 ✓	658.69 ✓	82,336.25 ✓		
17.4	Prepare surface and apply three coats of enamel paint over one coat of primer (rates as per tender item no. 159)	Sqm ✓		318.14 ✓	140.00 ✓	44,539.40 ✓ 44,539.40 ✓	318.14 ✓	44,539.40 ✓ 44,539.40 ✓		

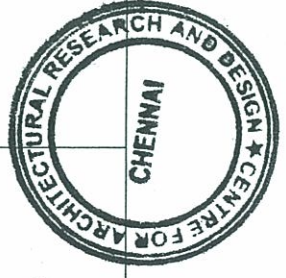
CHENNAI ENGINEERS
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D. Dr. Rajeev



**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
13.	Providing and fixing anutone board with silver wood planks all over the shuttering edges including tying with G.S. wire to embed in the roof concrete. (Anutone board supplied by Client at free of cost)	Sqmt		141.18	129.00	18,212.22	141.18	18,212.22 14,118.00		
14.	Supply of teak wood for Kalakshetra foundation carpenter for Kalasam moulding.	Cum		0.490	1267760	62,120.24	0.490	62,120.24		
15.	Providing and fixing re-bar grouting to the existing beams and slab with Hilti chemical for green room area.									
15.1	16mm dia rod	No\$		302	233.00	70,366.00	232	54,056.00	70	16,310.00
15.2	20mm dia rod	No\$		114	472.00	53,808.00	114	53,808.00		
15.3	12mm dia rod	No\$		595	149.50	88,952.50	595	88,952.50		
15.4	10mm dia rod	No\$		296	113.60	33,625.60	296	33,625.00		
16.	Providing and fixing teak wood gutter in valley area for the roof in 1" thick plank including nailing all etc.	Sqm		36.09	4,652.00	1,67,890.68	36.09	1,67,890.68		



No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

CHENNAI ENGINEERS

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SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
7.	Prepare surface and fix 50 mmx 50mm welded mesh of 2.5mm thick and blow CM 1:3 for 40 mm to 50mm thick with rough course sand with grouting compound by air compressor and guniting equipment.	Sqmt		247.25 247.25	1575.00	3,89,418.75 3,89,418.75	247.25	3,89,418.75	0.01	15.75
8.	Stage work for kalasam fixing					30,250.00		30,250.00		
9	Kalasam fixing					10,895.00		10,895.00		
10	Crane hire charges and fabricating angular cage with 75mm x75mm and existing 1" pipe.					79,678.00		79,678.00		
11.	Providing scaffolding for AC duct and electrical work.	Sqmt		1190.10	70	83,307.00	796.59	55,761.30 39,829.50	393.51	27545.70 43,477.50
12.	Providing and fixing eves board as design as existing flower pattern in 1" thick teak wood plank.	Rmt		26.80	2231.00	59,790.80	26.80	59,780.80		



Signature
S. R. Srinivasan

CHENNAI ENGINEERS
Proprietor:

KOOTHAMBALAM - ADDITIONS, ALTERATIONS & CIVIL WORKS

BILL AND PART : EXTRA WORK

SNo	Description	Unit	Tender Amount	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
1.	Providing and apply 2 coats of linseed oil for battens and rafter on the roof area.	Sqm		2803.81	110.00	3,08,419.10	2367.22	2,60,394.20	436.59	48,024.90
2.	Removing and handing over the Kalasam (Big)	No		2	3000.00	6,000.00	2	6,000.00		
3.	Removing and handing over the Kalasam (Small)	No		1	2000.00	2,000.00	1	2,000.00		
4.	Dismantling and Removing statue and handing over to the client.	No		54	200.00	10,800.00	54	10,800.00		
5.	Dismantling the existing name stone on handing over to the client.	Nos		2	500.00	1,000.00	2	1,000.00		
6.	Clearing and carting away the existing debris.	Loads		114	1,200.00	1,36,800.00	104	1,24,800.00	10	12,000.00
6.1	Clearing and carting away the existing debris (1 unit).	Loads		35	600	20,400.00	12	7,200.00	22	13,200.00
						21,000.00			23	43,800.00



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for CHENNAI ENGINEERS
Proprietor:

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (a)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
159	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer	350.00	Sqrm	140.00	49,000.00	437.50	61,250.00	1,687.06	2,36,188.40	1,687.06	2,36,188.40	1,249.56	1,74,938.40	357%	
161	Paints - Walls & Ceilings Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give an even shade.	1,000.00	Sqrm	80.00	80,000.00	1,250.00	1,00,000.00	1,155.18	92,414.40	961.61	76,928.80				
	Part rate items - 148 -			-300.00			-234,879.00	782.93	-234,879.00	782.93	-234,879.00	782.93	-234,879.00		
TOTAL								1,49,23,877.25	1,16,45,800.10	95,92,932.60	42,59,669.80	19.442%	2,19,09,505.00		

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Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (a)
 Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	% above value 25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
				Rs.	Rs.										
132	Fixing mangalore tiles of size 400x240mm so as to cover an area of 320x210mm. The lap should be not less than 75mm. Provide for necessary mortar jointing, chasing in walls, tile cutting, tile wastage etc.	2,500.00	Sqrm	350.00	8,75,000.00	3,125.00	10,93,750.00	995.32	3,48,362.00	995.32	3,48,362.00				
133	Providing and fixing ridge tile and 3 way connector including necessary jointing	115.00	Rm	225.00	25,875.00	143.75	32,343.75	346.11	77,874.75	346.11	77,874.75	202.36	45,531.00	176%	
136	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc, in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	200.00	Sqrm	265.00	53,000.00	250.00	66,250.00	286.61	75,951.65	286.61	75,951.65	36.61	9,701.65	18%	
137	Providing 12 mm thick average cement plaster to walls, columns, piers, etc, applied, finished smooth and cured, complete, with mixes : 1:6 with fine sand	150.00	Sqrm	215.00	32,250.00	187.50	40,312.50	544.08	1,16,977.20	472.12	1,01,505.80	356.58	76,664.70	238%	
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc, applied, finished smooth and cured, complete, with mixes : 1:6 with coarse sand	180.00	Sqrm	236.00	42,480.00	225.00	53,100.00	110.65	26,113.40	39.75	9,381.00				
141	Ceiling wall acoustical tiles Providing and fixing ceiling tiles / boards in steel / aluminum / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles/boards, with two coats of primer, necessary screws where required etc., complete (frame work will be paid for separately), of sizes : 12.5 mm thick Plaster of paris (gypsum anhydrous) ceiling tiles.	625.00	Sqrm	300.00	1,87,500.00	781.25	2,34,375.00	152.55	45,765.00	0.00	0.00				
146	Concrete flooring Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete : 25 mm thick	225.00	Sqrm	250.00	56,250.00	281.25	70,312.50	75.21	18,802.50	75.21	18,802.50				
147	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete : 40 mm thick	750.00	Sqrm	350.00	2,62,500.00	937.50	3,28,125.00	322.11	1,12,738.50	0.00	0.00				
148	CONCRETE FLOORING Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	850.00	Sqrm	500.00	4,25,000.00	1,062.50	5,31,250.00	782.93	3,91,465.00	782.93	3,91,465.00				

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Excess operation of at the 25% quantities alongwith financial implications of all the items - Annexure I (a)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25% and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	3,125.00	3,50,000.00	2,132.75	2,38,868.00	2,132.75	2,38,868.00				
121	Steel stair Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In stringers, trends, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	250.00	32,500.00	7,000.00	9,10,000.00	0.00	0.00	6,750.00	8,77,500.00	3375%	
	Bird Mesh														
122	Refabricating with existing framework with additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	375.00	Kg	125.00	46,875.00	468.75	58,593.75	2,760.00	3,45,000.00	1,000.00	1,25,000.00	2,291.25	2,86,406.25	611%	
	Wood work														
	Wood Framing														
125	Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqm	3,500.00	7,87,500.00	281.25	9,84,375.00	161.85	5,66,475.00	161.85	5,66,475.00				
126	Roof Truss Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including according to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2nd class CP teakwood	20.00	curm	1,50,000.00	30,00,000.00	25.00	37,50,000.00	8.12	12,18,600.00	6.20	9,30,600.00				
129	Rails and Balusters Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqm	500.00	3,12,500.00	781.25	3,90,625.00	93.41	46,705.00	0.00	0.00				
131	Roof tiles Providing and fixing Mangalore tiles of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	200.00	Sqm	910.00	1,82,000.00	250.00	2,27,500.00	1,016.93	9,25,406.30	1,016.93	9,25,406.30	766.93	6,97,906.30	383%	

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Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (a)
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
109	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand,along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking-curing and handling at all levels above/below GL.	33.50	Cum	10,000.00	3,35,000.00	41.88	4,18,750.00	6.61	66,120.00	5.67	56,700.00				
Masonry - Brickwork, conventional bricks															
110	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	85.00	Cum	4,250.00	3,61,250.00	106.25	4,51,562.50	188.95	8,03,037.50	188.95	8,03,037.50	82.70	3,51,475.00	97%	
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	156.25	6,87,500.00	37.50	1,65,000.00	37.50	1,65,000.00				
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below GL	30.00	Cum	4,250.00	1,27,500.00	37.50	1,59,375.00	28.15	1,19,637.50	13.20	56,100.00				
115	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level.	125.00	Sqm	680.00	85,000.00	156.25	1,06,250.00	60.52	41,153.60	55.80	37,944.00				
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	75.00	Cum	2,600.00	1,95,000.00	93.75	2,43,750.00	36.71	95,446.00	32.59	84,734.00				
Metal work															
Structural steel															

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Excess operation of a 25% quantities alongwith financial implications of all the items - Annexure I (a)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
92	Providing and fixing, centering and shuttering for concrete work (plan and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, easing, striking, removal etc. complete. Allow for forming, grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqrm	300.00	10,500.00	43.75	13,125.00	433.17	1,29,951.00	433.17	1,29,951.00	389.42	1,16,826.00	1113%	
	Reinforcement steel														
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	15.00	Tonne	55,000.00	8,25,000.00	18.75	10,31,250.00	9.29	5,10,785.00	9.29	5,10,785.00				
	Plain cement concrete														
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curring etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	50.00	1,75,000.00	41.85	1,46,475.00	41.85	1,46,475.00				
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curring etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	22.50	78,750.00	10.93	38,255.00	10.93	38,255.00				
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curring etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	18.75	69,375.00	176.88	6,54,456.00	176.88	6,54,456.00	158.13	5,85,081.00	1054%	
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	71.25	2,63,625.00	105.60	3,90,720.00	73.22	2,70,914.00	34.35	1,27,095.00	60%	
	Structural Concrete - RCC														
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement. 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	35.00	1,57,500.00	13.62	61,290.00	13.62	61,290.00				
	Precast - Fins/lofters														

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Excess operation of a 25% quantities alongwith financial implications of all the items - Annexure I (a)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 5m and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25% and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
44	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by tamping and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	387.50	46,500.00	111.07	13,328.40	111.07	1,328.40	163.56	57,246.00	20%	
45	Supplying and stacking good earth, free from organics impurities.	825.00	Cum	350.00	2,88,750.00	1,031.25	3,60,937.50	1,194.81	4,18,183.50	1,194.81	4,18,183.50				
46	Bulk Excavation Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.														
48	Add for every additional lift of 1.5 m or part thereof in: All types of Fill	110.00	Cum	250.00	27,500.00	137.50	34,375.00	674.71	1,68,677.50	665.50	1,66,375.00	537.21	1,34,302.50	488%	
		50.00	Cum	35.00	1,750.00	62.50	2,187.50	108.13	3,784.55	108.13	3,784.55	45.63	1,597.05	91%	
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench 450 mm)														
		230.00	m	150.00	34,500.00	287.50	43,125.00	65.55	9,832.50	65.55	9,832.50				
56	Termite - Pre treatment Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured). Using Chloropyriphos Emulsifiable concentrate 0.2%.														
		1,150.00	Sqm	60.00	69,000.00	1,437.50	86,250.00	1,179.52	70,771.20	1,179.52	70,771.20				
	Concrete Formwork and Accessories														
	Form Work/Centering and shuttering														
	Forms in Place														

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Excess operation of a. e 25% quantities alongwith financial implications of all the ns - Annexure I (a)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty	Amount	Qty	Amount	Qty	Amount		
19	Dismantling expanded metal or IRC fabrics along with battens and beadings including stacking the serviceable materials within a 50 m lead.	375.00	Sqrm	215.00	80,625.00	468.75	1,00,781.25	454.00	97,610.00	454.00	97,610.00				
20	Flooring demolition Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqrm	225.00	2,02,500.00	1,125.00	2,53,125.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,160.11	2,61,024.75	129%	
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	450.00	Sqrm	250.00	1,12,500.00	562.50	1,40,625.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,626.29	4,06,572.50	361%	
23	Framing demolition Dismantling woodwork in frames, trusses, putlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	50.00	m	800.00	40,000.00	62.50	50,000.00	55.48	44,384.00	55.48	44,384.00				
26	Partitions Demolition Rain water Pipes demolition Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia: upto 80 mm	30.00	m	20.00	600.00	37.50	750.00	1,080.00	21,600.00	1,080.00	21,600.00	1,042.50	20,850.00	3475%	
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	50.00	25,000.00	10.00	5,000.00	10.00	5,000.00				
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	15.00	15,000.00	32.00	32,000.00	32.00	32,000.00	17.00	17,000.00	142%	
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100srr	1,100.00	66,000.00	75.00	82,500.00	20.00	22,000.00	20.00	22,000.00				
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	406.25	56,875.00	481.73	67,442.20	481.73	67,442.20	75.48	10,567.20	23%	

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Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (a)
Name of work : Additions, Alterations and Civil works at Koothambalam in Kakshetra Foundation - 5th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Qty (7)	Amount (8)	Qty (9)	Amount (10)	Qty (11)	Amount (12)		
(1)	(2)	(3)	(4)	Rs. (5)	Rs. (6) = (3) x (5)									(13)	(14)
SITE PREPARATION															
Site Demolition															
External services															
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.25	6,250.00	6.00	6,000.00	6.00	6,000.00				
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	155.00	Sqrm	160.00	24,800.00	193.75	31,000.00	121.38	19,420.80	121.38	19,420.80				
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqrm	450.00	22,500.00	62.50	28,125.00	156.01	70,204.50	127.00	57,150.00	93.51	42,079.50	187%	
Selective demolition															
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	150.00	1,87,500.00	227.52	2,84,400.00	221.21	2,76,512.50	77.52	96,900.00	65%	
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening, scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	475.00	11,87,500.00	79.15	1,97,875.00	79.15	1,97,875.00				
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	102.50	1,23,000.00	181.07	2,17,284.00	157.77	1,89,324.00	78.57	94,284.00	96%	
Door / window demolition															
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas upto 3 sqm	34.00	Ea.	750.00	25,500.00	42.50	31,875.00	34.00	25,500.00	34.00	25,500.00				
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas over 3 sqm	4.00	Ea.	1,000.00	4,000.00	5.00	5,000.00	8.00	8,000.00	8.00	8,000.00	3.00	3,000.00	75%	

The details given are as per measurements recorded in the measurement books up to 5.9.2011. These have been verified and certified by me.

Hence approval sought for:-

- 1) Excess operation of above 25% quantities along with financial implications of all the items given in the Annexure I a.
- 2) (a) - Under-operation of items given in Annexure II
(b) - Non-operated items given in Annexure III
- 3) Introduction of all new items along with quantities and proposed rate given in Annexure IV, for a total value of Rs. 62,25,257.00 (Basis for the rate analysis submitted by me) for which Bills submitted so far under this head is Rs.54.98 lakhs.

Ravi Nilakantan
Ar.Ravi Nilakantan



Table - 2

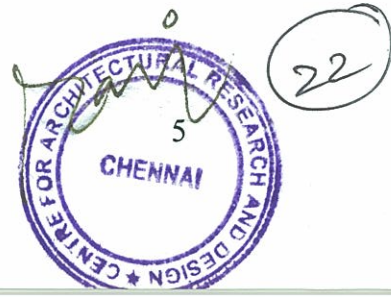
Sl.No.	Description of the works	Total expenditure	Paid sofar	Balance to be paid	Remarks
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I .	50,42,365.90	35,09,123.15	15,33,242.75	
2 (a)	Under-operation of items given in Annexure II	27,06,555.12	---	----	
2 (b)	Non-operated items given in Annexure III	46,50,900.00	----	---	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV .	62,25,257.00*	28,40,305.00	33,84,952.00	

*This head includes items already billed, under billing as also proposed to be carried out

With regard to new items, Works Committee has already approved vide its order dated 17th September 2010 with an amount of Rs.30, 21,750/- which is 12% above the tendered value for introduction of Non tendered items as approved and permitted. In view of that an amount of Rs.28, 40,305/- was already paid against this particular head in this contract. Further to the most recent bill certified by me, under Non tendered items, the total billing made and submitted so far for non tendered items is pegged at Rs.54, 28,981/-(which Rs. 24, 07,231/- above the approved 30, 21,750/-and is 24.78 % of the tendered value)

The figure of Rs. 62. 25 lakhs shown under item 3 above also includes an additional amount of Rs. 7.96 lakhs towards proposed new items (not yet billed) which we plan to carry out in the immediate future.

The approval now sought is to ensure that payment can be made for all operations excess (above 25%), as well as new items, to the total tune of Rs. 49, 18,194.75/-



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In view of above, the list of new items – description, quantity and along with proposed rates for the same have been given at Annexure IV. The basis for the rates has also been furnished by the undersigned separately.

Hence, items given in Annexure IV are the new items that have been introduced and executed by the civil engineering contracts in the tender schedule and the total amount of these items is Rs.62, 25,257.39 and is 28.41% variation over the original tendered value.

This is the position with regard to the works progressed up to 05.09.2011 and the financial implication is as follows:-

Table - 1

Sl.No	Description of the works	% of increase with ref. to tender value	% of decrease with ref. to tender value	Financial implications	Total
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I .	(+) 23.02		(+)50,42,365.90	
2 (a)	Under-operation of items given in Annexure II		(-) 12.35%	(-)27,06,555.12	
2 (b)	Non-operated items given in Annexure III		(-) 21.23%	(-)46,50,900.00	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV .	(+)28.41		(+)62,25,257.39	
	Overall excess expenditure	(+)51.43	(-)33.58%	+(17.85)%	(+)39,10,168.17

With regard to the details given above payment has already been made for each of these items as detailed below



- 50 2
5. North entrance roof incorporates a traditional roof hump in wood as envisaged by Sri. Appukkuttan Nair. Traditional carpenters are to undertake this work after the base works are completed by the civil vendor.
 6. Dressed stone lining is proposed in the ramps adjoining the stage and the auditorium area. This material is suggested for barrier free usage and maintenance.
 7. The entire Koothambalam is proposed to have traditional red oxide floor. Various samples were provided by the civil vendor to the best of his ability. Somehow samples provided were found wanting in finish. Traditional red oxide masons were identified and were asked to put up samples at site. Traditional masons used certain powder material in addition to the normal material for better finish. The clients and architects felt that the finishing work of red oxide floor is given to the traditional masons. The civil vendor will coordinate.
 8. Wooden railings following the RC slats were found the most suitable railing pattern in the Koothambalam. These are incorporated in the railings in balcony and the auditorium areas.
 9. Being a traditional auditorium all statues depicting various deities are placed in the Koothambalam. The Vaastu consultant is keen to have the statues in the same place and position as they are sacred.
 10. Bird entries in roof structure, were detailed out as wood louvers. After various samples, it was decided that double slats on either side of the frame as louvers will be used in all the visible higher areas of the Koothambalam, stage and green room. Single slat on frames will be used in the non visible areas with a welded metal mesh screen. Variations in wood quantities and Labour are noticed and recorded as additional cost.
 11. Catwalk above stage, motor supports and supports from the main roof structure are required by the lighting & stage consultant to house their equipment, curtains and focus lights as a facility. Steel structural supports are being executed for the same.
 12. HVAC equipment is placed in the second floor. This is above the green room. A separate metal staircase is planned behind the cyclorama to facilitate maintenance of AC equipment and Lighting equipment above stage. The structure in steel is designed for safe movement of maintenance staff. A welded mesh vertical partition is provided between the AC and stage equipment for safety.
 13. Curved wooden louvers for ventilation are provided above the stage and green room area. Samples of louvers have been approved at site during site visits.
 14. The structural consultants have recommended to gunnite the basement existing brick masonry walls to avoid moisture penetration. Since the basement is used as a store, the walls and floor of the basement is gunnited.
 15. The theatre complex is worshipped as a temple of performing arts. With the clients permission the toilet for the green room is provided behind the green room in a separate building. In all four toilets are provided for the actors/users of green room.



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8. As suggested by the structural consultant the balcony tiers were done in hollow block. This item was not anticipated during tender. Also, as suggested by the consultants, steel tiers are proposed in the balcony.
 9. While doing the foundations for green room slabs, huge brick foundations were noticed with no superstructure above. A basement between the existing foundations was proposed to fit the client's need for additional storage, resulting in excess and additional works. A cellar of @ 500+ sft with 2.4M height and two green room floors with min. 3.1M heights were created.

Hence, the variation in tendered quantity is given at Annexure I and the total variation in excess is to the tune of Rs.50, 42, 365.90 (+23.02%). The variation in individual quantities ranged from 3% to 3500%. Annexure 1 (a) contains the list of items varied above 25%. The total financial implication of items operated above 25% alone is Rs.42, 59,669.80 (19.44%).

In view of the above modifications certain items in the tender schedule were either under operated or non-operative. They have been given as Annexure II and Annexure III respectively.

B. Introduction of New items

During execution of the project the following changes were brought about

1. Traditional wood valley details were adopted and executed in the valleys connecting the auditorium and the stage. TW planks 1" thick and 15" wide were added above the wooden roof structure forming the valley. The valley was lined with bituminous felt and metal flashing, re-laid with felt before laying the Mangalore tiles.
2. Natural ventilation during normal times was found necessary in the Koothambalam and stage area. As per the HVAC consultant's advice, a simple monitor in the roof was considered. The existing kalasams in the roof was removed, structure redone to receive the kalasams. Due to the odd roof structure to approach the roof, mechanical lifting methodologies were necessitated to refit the kalasams.
3. Certain buildings around the Koothambalam, due to maintenance and repair were identified to be demolished during site meetings. These had to be executed by the vendor.
4. Adhistanam or traditional decorative base was suggested to be added by the Vaastu consultants. An incomplete adhistanam probably envisaged by the founder Smt. Rukmini Devi, was found in the stage area. After various samples at site, the sample existing in the SW side of stage area, probably done during the founders' time was found most suitable by all concerned and is being executed by the vendor. Traditional stapathis are needed to complete the works. The civil vendor is instructed to do the profiling of the base works. Traditional stapathis will take up and finish the adhistanam.



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CENTRE FOR ARCHITECTURAL RESEARCH & DESIGN

ARCHITECTURE ○ LANDSCAPE ○ INTERIORS

NOTES

Sub: Koothambalam -Additions, Alterations and civil works – Reg.

15/09/2011

After award of tender to M/s. Chennai Engineers (civil vendor) the following additional and modification to works have found to be necessary and the same are discussed.

The modification / additional are discussed as under:

1. Koothambalam Entrance area was proposed to be restored as envisaged by Sri. Appukkuttan Nair. This resulted in large scale dismantling of entrance area. The entrance is rebuilt with a lobby, verandah, wooden roof structure and Mangalore tiles. RC fins, louvers and support works are undertaken to match the existing.
2. No major repair works had been undertaken at the Koothambalam since its inception in 1980. The architects and clients felt that the restoration work be undertaken in a maintenance free manner. Hence, Mangalore tiles were removed and re-laid. Timber support members sunned, repaired, damaged members replaced and the entire timberwork coated with linseed oil. Individually Mangalore tiles were checked for cracks and cleaned. Because of this new tile procurement quantity increased anticipated quantities. Ridge tile quantities increased since these were set in mortar. Valley geometry was corrected and redone.
3. General realignment of geometry was done, to the stage areas, stage steps and the musician's area. Barrier free movement was incorporated by adding ramps to either side of the stage area.
4. The clients wanted the architects to rework the seating capacity with clear sight lines. The tier geometry hence had to be reworked and the tiers redone. Existing tier geometry needed to be corrected and extra tiers added. RR masonry was avoided in the foundations, since only bricks were used in the foundations executed by Sri. Appukkuttan Nair. Accordingly brick in foundation, sub floor and screed work quantities increased.
5. Koothambalam is entered bare foot. It was felt by both by the clients and the architects that comfort to the visitors is to be envisaged when visitors entered bare foot. The aisles and passages are proposed to be done in wood for warmth and comfort.
6. Two RC staircases were proposed by the architects at the northern side of the Koothambalam. This necessitated dismantling certain existing balcony RC works to be dismantled. During the course of various site meetings, the Governing Board felt that dismantling balcony RC structures should be avoided for safety reasons. Steel staircases were incorporated from the stage side to avoid any dismantling as suggested.
7. Bird meshes were redone to match the profile of the RC fins

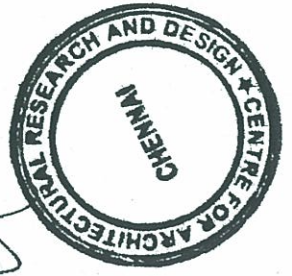


SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
159	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including, preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer	Sqm	350	2526.08 2595.06	140	353,651.20 3,63,308.40	1687.06	2,36,188.40	839.02	11,74,62.80
161.	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give on even shade.	Sqm	1,000	1155.18	80.00	92,414.40	1155.18 1155.61	92,414.40		
Total Summary carry over							10,39,108.95	8,81,537.05		1,57,571.90
							10,04,559.95			123,022.90

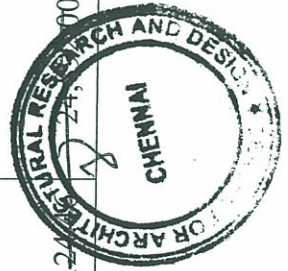
for CHENNAI ENGINEERS

S. Ra. Rajend

Proprietor



SN ^o	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
147.	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete: 40 mm thick.	Sqm	750	322.11 ✓	350.00 ✓	1,12,738.50 ✓	322.11 ✓	1,12,738.50 ✓		
148	Concrete flooring providing and laying 40mm thick red oxide flooring, under layer of 30mm thick cement concrete 1:2:4 and top layer of 10mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc. complete.	Sqm	850	782.93 ✓ 907.39 ✓	200.00 ✓ 500.00 ✓	1,56,586.00 ✓ 1,81,478.00 ✓	782.93 ✓	1,56,586.00 ✓		



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for CHENNAI ENGINEERS
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Proprietor

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
141.	Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles / boards, with two coats of primer, necessary screws where required etc. complete (frame work will be paid for separately), of sizes: 12.5 mm thick plaster of paris (gypsum anhydrous) ceiling tiles. Tile available at site (Client supply)	Sqm	625	152.55 ✓	300.00 ✓	45,765.00 ✓	152.55 ✓	45,765.00 ✓		
146.	Providing and laying cement concrete flooring 1:2:4 finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete : 25mm thick	Sqm	225	75.21 ✓	250.00 ✓	18,802.50 ✓	75.21 ✓	18,802.50 ✓		



for CHENNAI ENGINEERS

S. V. Suresh

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
136.	Providing 10mm thick average plaster to soffits and sides of slabs, beams and other concretes surfaces, etc. in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	Sqm ✓	200	286.61 ✓	265.00 ✓	75,951.65 ✓	286.61 ✓	75,951.65 ✓		
137	Providing 12mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes: 1:6 with fine sand	Sqm ✓	150	569.94 ✓	215.00 ✓	1,22,537.10 ✓	544.08 ✓	1,16,977.20 ✓	25.86 ✓	5,559.90 ✓
138.	Providing 12mm thick average cement plaster to walls, columns, piers, etc. applied, finished smooth and cured, complete, with mixes: 1:6 with fine sand.	Sqm ✓	180	110.65 ✓	236.00 ✓	26,113.40 ✓	110.65 ✓	26,113.40 ✓		



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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
134.	Door & Windows Wooden frames Providing, fabricating and fixing in position selected quality seasoned and chemically treated wood work in frames and sub frames of doors, windows, clerestory windows and other frames, wrought to size and profile with mitred joints, including fixing to supports with threaded expansion bolts / hold fasts or other fixing accessories complete 2 nd class CP teak wood	Cum	2.5	0.870 0.948	1,70,000.00	1,147,900.00 1,61,160.00			0.870 -0.948	1,147,900.00 1,61,160.00
	Total Summary carry over					1,61,160.00				1,61,160.00
	Finishers					1,147,900.00				1,147,900.00



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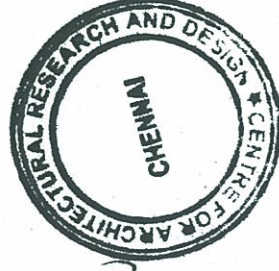
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For CHENNAI ENGINEERS
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Proprietor

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SN _o	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
132	Fixing mangalore tiles of size 400x200 mm so as to cover area of 320x210 mm. The lap should be not less than 75mm providing for necessary mortar joint chasing in walls.	Sqmt	2500	995.32	350.00	3,48,362.00	995.32	3,48,362.00		
133	Providing and fixing ridge tile and 3 way connector including necessary jointing.	Rm	115	346.11	225.00	77,874.75	346.11	77,874.75		
	Total Summary carry over					13,98,348.05		13,98,348.05		

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For CHENNAI ENGINEERS

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Proprietor

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
129.	Damp & Waterproofing, Thermal protection Providing and placing in position over/on vapour barrier and such locations, insulations slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool / mineral wool / rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately): 50mm thick, fibre-glass (24 kg per cum)	Sqm	625	93.41	500.00	46,705.00	93.41	46,705.00		
131	Roof Tiles: providing and fixing Mangalore tiles of size 400 x 240mm, so as to cover an area of 320 x 210mm, the lap should be not less than 75mm.	Sqm	200	1016.93	910.00	9,25,406.30	1,016.93	9,25,406.30		



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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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For CHENNAI ENGINEERS

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements		
							Qty.	Amount	Qty	Value	
125	Wood work Providing and fixing wooden frame with 60mm x 50mm battens, fixed at 600mm centre to centre (Both ways). Allow for solignum treatment to the timber framework: 2 nd class CP teak wood	Sqm	225	161.85	3,500.00	5,66,475.00	161.85	5,66,475.00			
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafter, runners, posts, struts, wall plates, etc. of size and profile inclined roofs including anchoring to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2 nd class CP teakwood	Cum	20	8.124	1,50,000	12,18,600.00	8.124	12,18,600.00			
Total							17,85,075.00		17,85,075.00		

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	Kg ✓	2500	2132.75 ✓	112 ✓	2,38,868.00 ✓	2,132.75 ✓	2,38,868.00 ✓		
121	Providing, fabricating and erecting MS welded built up sections / frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete: In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	Kg ✓	200	7,000.00 ✓	130.00 ✓	9,10,000.00 ✓	7,000.00 ✓	9,10,000.00 ✓		
122	Refabricating with existing frame work worth additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	Kg ✓	375	2,760.00 ✓	125.00 ✓	3,45,000.00 ✓	2760.00 ✓	3,45,000.00 ✓		
for	Grand Total					14,93,868.00 ✓		14,93,868.00 ✓		



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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15mm thick, joints finished flush / raked to minimum 10mm depth including necessary scaffolding, complete. Allow for leveling with cement concrete 1:6:12 with coarse sand at plinth / window sill / ceiling level and the like, in : Foundations and plinths, (1.5m below and upto 1.2 above GL)	Cum	75	36.71	2,600.00	95,446.00	36.71	95,446.00		
	Total Summary carry over					12,35,223.40		12,24,274.60		10,948.80
	Metal work	-								
	Structural steel	-								



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For CHENNAI ENGINEERS
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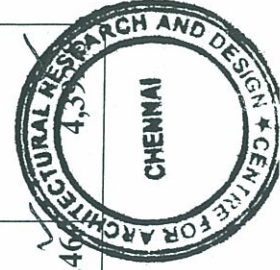
SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
112.	Providing brick work with bricks of class 75, joints finished flush / raked to 12mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in: Basement, under ground water tank and the like, upto 7.0 m below GL.	Cum ✓	30	28.15 ✓	4,250.00 ✓	1,19,637.50 ✓	28.15 ✓	1,19,637.50 ✓		
15.	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush / raked 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3mm) at every fourth course and embedding the same in adjoining masonry / columns by drilling holes etc. complete. Super structure upto 20.0 above plinth level.	Sqm ✓	125	66.98 ✓	680 ✓	45,546.40 ✓	60.52 ✓	41,153.60 ✓	6.46 ✓	

For CHENNAI ENGINEERS

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S. S. Srinivasan

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SNO	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
105	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:2:4 nominal mix(1.5m below and upto 1.2m above G.L)	Cum	28	13.62	4500.00	61,290.00	13.62	61,290.00		
109.	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. A allow for stacking, curing and handling at all levies above / below GL.	Cum	33.50	6,612	10,000	66,120.00	6.612	66,120.00		
Total Summary carry over						20,34,867.00		19,98,052.00		



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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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Proprietor.

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	Cum ✓	15	176.88 ✓	3700.00 ✓	6,54,456.00 ✓	176.88 ✓	6,54,456.00 ✓		
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete	Cum ✓	57	145.55 ✓ 105.60 ✓	3,700 ✓	3,90,720.00 ✓ 4,27,535.00 ✓	105.60 ✓	3,90,720.00 ✓		

For CHENNAI ENGINEERS
: Floor screedings.



No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

Proprietor.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
100.	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, binding with 18 guage annealed steels wire, complete, of grade: Fe 415.	Tonne	15	9.287	55,000	5,10,785.00	9.287	5,10,785.00		
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	Cum	40	41.85	3,500	1,46,475.00	41.85	1,46,475.00		
102.	Providing and laying cement concrete with fine sand and graded stone aggregates, 40mm nominal size in foundations, footings and under floors including side forms, curring etc., complete, of nominal mix 1:4:8.	Cum	18	10.93	3,500	38,255.00	10.93	38,255.00		



Z. Proprietor.

No.69, 2nd Cross Street, Srinivasapuram, CHENNAI.

S. S. Srinivasan

S. S. Srinivasan

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
	Total Summary carry over					28,73,844.40		28,64,645.40		9,199.00
	Concrete Formwork and Accessories					28,73,206.40				856,50
92.	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including structuring, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, easing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is upto 4.00 m : Sides of footings of columns the floor height is up to 4.00m : Sides of footings of columns and walls and sides of base slabs.	Sqm	35	433.17	300	1,29,951.00	433.17	1,29,951.00		



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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
52.	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50m complete, of pipes, cables of sizes: upto 80mm dia, and (minimum width of trench 600mm)	m ✓	230	65.55 ✓	150.00 ✓	9,832.50 ✓	65.55 ✓	9,832.50 ✓		

For CHENNAI ENGINEERS

Proprietor:



M. R. Rajasekar

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
46	Bulk Excavation Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.									
		Cum ✓	110	695.09	250	1,73,135.00	674.71	1,68,677.50	17.83	4,14,57.50
		Cum ✓	50	108.13	35	3,784.55	108.13	3,784.55	20.38	5,095.00
48	Add for every additional lift of 1.5 m or part there of in all type of soil									



S. D. Sankar

For CHENNAI ENGINEERS

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Proprietor:

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
44.	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adajacent areas to profiles, shapes and leaves etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5 m complete.	Cum	310	111.07	120.00	13,328.40	111.07	13,328.40		
45	Supplying and stacking good earth, free from organics impurities.	Cum	825	1194.81	350.00	4,18,183.50	1194.81	4,18,183.50		

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for CHENNAI ENGINEERS

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Proprietor:

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
41	Back fill Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	Cum ✓	325	481.73 ✓	140.00 ✓	67,442.20 ✓	481.73 ✓	67,442.20 ✓		



D. Ravi. Sankar
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for CHENNAI ENGINEERS
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Proprietor.

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50m lead, complete, of girths (measured at a height of 1.0m above G.L.): over 600mm and upto 1200 mm	nos	12	32 ✓	1000 ✓	32,000.00 ✓	32 ✓	32,000.00 ✓		
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150mm deep, in all types of soil and disposal of rubbish upto a lead of 50m, complete.	100 sm	60	20.00 ✓	1100 ✓	22,000.00 ✓	20.00 ✓	22,000.00 ✓		



D.S. Rajasekar
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for CHENNAI ENGINEERS
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Proprietor.

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
26	Dismantling CI / GS / PVC asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50m lead, of dia: upto 80mm.	m	30	1080.00 ✓	20.00 ✓	21,600.00 ✓	1080.00 ✓	21,600.00 ✓		
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50m lead, complete, of girths (measured at a height of 1.0m above G.L.) : over 600mm and upto 1200 mm.	nos ✓	40	10 ✓	500 ✓	5,000.00 ✓	10 ✓	5,000.00 ✓		

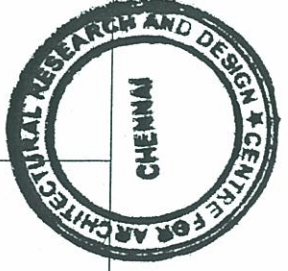
For CHENNAI ENGINEERS


S.M. Sathya
Proprietor.





SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	Sqm ✓	900	2285.11 ✓	225.00 ✓	5,14,149.75 ✓	2,285.11 ✓	5,14,149.75 ✓		
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	Sqm ✓	450	2188.79 ✓	250.00 ✓	5,47,197.50 ✓	2188.79 ✓	5,47,197.50 ✓		
23	Framing demolition Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	m ✓	50	55.48 ✓	800.00 ✓	44,384.00 ✓	55.48 ✓	44,384.00 ✓		



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For CHENNAI ENGINEERS

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

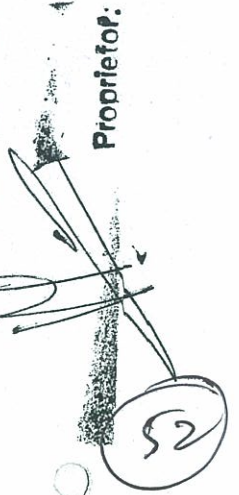
Proprietor:

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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	Cum ✓	380	79.15 ✓	2500.00 ✓	1,97,875.00 ✓	79.15 ✓	1,97,875.00 ✓		
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	Cum ✓	82	184.49 ✓	1200.00 ✓	2,21,388.00 ✓	181.07 ✓	2,17,284.00 ✓	3.42 ✓	4,104.00 ✓
	Door /window demolition									

For CHENNAI ENGINEERS


Proprietor.



S. R. Jayaraj

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	Sqm	50	156.01	450.00	70,204.50	156.01	70,204.50		
	Selective demolition									
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	Cum	120	227.52	1250.00	2,84,400.00	227.52	2,84,400.00		

For CHENNAI ENGINEERS

Proprietor:



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SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
	<u>SITE PREPARATION</u>									
	<u>Site Demolition</u>									
	External services									
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	m	5	6	1000.00	6,000.00	6	6000.00		
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	Sqm	155	121.38	160.00	19,420.80	121.38	19,420.80		



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S. No. 10/2000

for CHENNAI ENGINEERS

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Proprietor:

**KOOTHAMBALAM - ADDITIONS, ALTERATIONS & CIVIL WORKS
BILL 6 AND PART : SYMMARY**

Sl. No.	Item of Work	Total Amount
1.	Site preparation	28,13,206.90
2.	Concrete form work and accessories	28,73,844.40
3.	Masonry	19,96,052.00
4.	Metal work	20,34,867.00
5.	Wood Work	12,35,223.40
6.	Damp, waterproofing & thermal production	14,93,868.00
7.	Doors and Windows	17,85,075.00
8.	Finishes	13,98,348.05
		1,47,900.00
		1,61,160.00
		10,04,559.50
		10,39,108.95
	Total	1,20,21,498.80

Nineteen ~~Twenty~~ Lakhs ~~Twenty~~ One Thousand ~~Four~~ Hundred and ~~Ninety~~ Eight only
 Ninety six ~~Two~~ ^{Two} ~~Thousand~~ ^{Thousand} ~~Four~~ Hundred and ~~Ninety~~ Eight only

S. Per. Sanyal

For CHENNAI ENGINEERS

(V. PANNEER SELVAM)
Proprietor



55

CENTRE FOR ARCHITECTURAL RESEARCH & DESIGN
ARCHITECTURE ○ LANDSCAPE ○ INTERIORS

Client: Kalakshetra Foundation			
Project: Koothambalam Theatre complex-Proposed Additions, Alterations and Civil works			Tender value:
Completion period=4months	Start date: 29.07.10	End date:	Rs.2,19,09,505.00
Work order:	1.C\2009-2010\VI.Admin\2.Engineering\i.Plan\Koothambalam\ad ditions,alterations & civil work.doc dated:17.06.2010		
Value of work done	11,936,233.00	Balance of work:	9973272.00

Certificate of Payment		
Name of Contractor :Chennai Engineers & Contractors		
Additions Alteration & civil works		
Bill no.6 and part:		
Value of work executed up to Bill no.6 & part		11,936,233.00
a. Less 5% retention of value work done	596,811.65	
b. Mobilisation advance on prorata	1,743,350.00	
Total		9,596,071.35
Deduct 5th r.a.bill value	11,645,800.00	
a. Less 5% retention of value work done	582,290.00	
b. Mobilisation advance on prorata	1,550,928.00	
	9,512,582.00	
Value of 5th bill		83,489.35
Payable		83,489.35
Amount Recommended for payment Say Rs.		83489.00
Certified for payment the sum of Rupees Eighty three thousands four hundred and eighty nine only.		
Date: 12.10.2011	<i>[Signature]</i> ARCHITECT	
Client's scope		
* +Sevice tax		
- Cess		
- IT		
Others		
Payment pending-Rs.6,39,458.00-5th R.A.Bill		

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CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS

SNO	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
159	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including, preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer	Sqm	350	2526.08	140	3,53,651.20	2526.08	3,53,651.20		
161.	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give on even shade.	Sqm	1,000	1561.75	80.00	1,25,909.60	1155.88	92,414.40	409.94	32,795.00
Total Summary carry over						10,64,767.35		10,04,559.75		60,207.60

For CHENNAI ENGINEERS
[Signature]
Proprietor

Mr. Jeyaraj



60,477.20

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No.09, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
147.	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete: 40 mm thick.	Sqm	750	322.11	350.00	1,12,738.50	322.11	1,12,738.50		
148	Concrete flooring providing and laying 40mm thick red oxide flooring, under layer of 30mm thick cement concrete 1:2:4 and top layer of 10mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc. complete.	Sqm	850	907.39	200.00/ 500.00	1,81,478.00	782.93	1,56,586.00	124.46	24,892.00



No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

For CHENNAI ENGINEERS

Flourishing

S. S. S. S. S.

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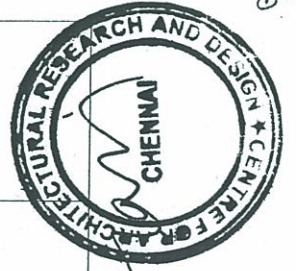
**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
141.	Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles / boards, with two coats of primer, necessary screws where required etc. complete (frame work will be paid for separately), of sizes: 12.5 mm thick plaster of paris (gypsum anhydrous) ceiling tiles. Tile available at site (Client supply)	Sqm	625	161.85	300.00	48,555.00	152.55	45,765.00	9.30	2790.00
146.	Providing and laying cement concrete flooring 1:2:4 finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps, etc. where required, complete : 25mm thick	Sqm	225	75.21	250.00	18,802.50	75.21	18,802.50		

For CHENNAI ENGINEERS

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No.69, 2nd Cross Street, Sankarabasa Nagar, Kulathur, Chennai - 600 099.



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CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS

SNO	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
136.	Providing 10mm thick average plaster to soffits and sides of slabs, beams and other concretes surfaces, etc. in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	Sqm	200	286.61	265.00	75,951.65	286.61	75,951.65		
137	Providing 12mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes: 1:6 with fine sand	Sqm	150	569.94	215.00	1,22,537.10	569.94	1,22,537.10		
138.	Providing 12mm thick average cement plaster to walls, columns, piers, etc. applied, finished smooth and cured, complete, with mixes: 1:6 with fine sand.	Sqm	180	110.65	236.00	26,113.40	110.65	26,113.40		



S. Nar. Jayaram

for CHENNAI ENGINEERS

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Proprietor

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
134.	Door & Windows Wooden frames Providing, fabricating and fixing in position selected quality seasoned and chemically treated wood work in frames and sub frames of doors, windows, clerestory windows and other frames, wrought to size and profile with mitred joints, including fixing to supports with threaded expansion bolts / hold fasts or other fixing accessories complete 2 nd class CP teak wood	Cum	2.5	0.870	1,70,000.00	1,47,900.00	0.870	1,47,900.00		
	Total Summary carry over					1,47,900.00		1,47,900.00		
	Finishers									

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S. M. Jayaraj

For CHENNAI ENGINEERS

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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

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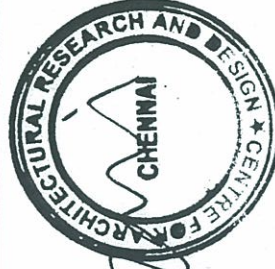
**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
132	Fixing mangalore tiles of size 400x200 mm so as to cover area of 320x210 mm. The lap should be not less than 75mm providing for necessary mortar joint chasing in walls.	Sqmt	2500	995.32	350.00	3,48,362.00	995.32	3,48,362.00		
133	Providing and fixing ridge tile and 3 way connector including necessary jointing.	Rm	115	346.11	225.00	77,874.75	346.11	77,874.75		
	Total Summary carry over					13,98,348.05		13,98,348.05		

for CHENNAI ENGINEERS

Proprietor

M. R. Sankar



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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
129.	Damp & Waterproofing, Thermal protection Providing and placing in position over/on vapour barrier and such locations, insulations slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool / mineral wool / rock wool shall be packed in 100 micron low density polythene film, duly seated from all sides (frame work shall be paid for separately): 50mm thick, fibre-glass (24 kg per cum)	Sqm	625	93.41	500.00	46,705.00	93.41	46,705.00		
131	Roof Tiles: providing and fixing Mangalore tiles of size 400 x 240mm, so as to cover an area of 320 x 210mm, the lap should be not less than 75mm.	Sqm	200	1016.93	910.00	9,25,406.30	1,016.93	9,25,406.30		

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For CHENNAI ENGINEERS

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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
125	Wood work Providing and fixing wooden frame with 60mm x 50mm battens, fixed at 600mm centre to centre (Both ways). Allow for solignum treatment to the timber framework: 2 nd class CP teak wood	Sqm	225	161.85	3,500.00	5,66,475.00	161.85	5,66,475.00		
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafter, runners, posts, struts, wall plates, etc. of size and profile inclined roofs including anchoring to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2 nd class CP teakwood	Cum	20	8.924	1,50,000	13,39,500.00	8.124	12,18,600.00	0.806	1,20,900.00
Total Summary carry over							19,05,075.00	17,85,075.00		1,20,000.00

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.



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CHENNAI ENGINEERS

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	Kg	2500	4666.38 4728.52	112	5,22,634.56 5,29,594.24	2,132.75	2,38,868.00	2533.63 2595.77	2,83,766.56 2,90,726.24
121	Providing, fabricating and erecting MS welded built up sections / frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete: In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	Kg	200	7775.04	130.00	10,08,207.20	7,000.00	9,10,000.00	755.44	98,207.20
122	Refabricating with existing frame work worth additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	Kg	375	2,760.00	125.00	3,45,000.00	2760.00	3,45,000.00		3,81,973.76
Total Summary carry over				18,82,801.74		18,19,821.96		14,93,868.00		3,88,933.44

For CHENNAI ENGINEERS

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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.



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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15mm thick, joints finished flush / raked to minimum 10mm depth including necessary scaffolding, complete. Allow for leveling with cement concrete 1:6:12 with coarse sand at plinth / window sill / ceiling level and the like, in : Foundations and plinths, (1.5m below and upto 1.2 above GL)	Cum ✓	75	36.71 ✓	2,600.00 ✓	95,446.00 ✓	36.71 ✓	95,446.00 ✓		
	Total Summary carry over					12,74,621.40		12,35,223.40 ✓		51,595.00 ✓
	<u>Metal work</u>	-				12,18,678.40				39,397.5 ✓
	<u>Structural steel</u>	-								



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For CHENNAI ENGINEERS

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Proprietor

No.69, 2nd Cross Street, Srinivasa Nagar, Kilathur, Chennai - 600 099.

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
112.	Providing brick work with bricks of class 75, joints finished flush / raked to 12mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in: Basement, under ground water tank and the like, upto 7.0 m below GL.	Cum ✓	30	40.29 37.42	4,250.00	1,71,230.50 1,59,035.5	28.15 ✓	1,19,637.50 ✓	12.14 ✓	51,595.00 ✓
115.	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush / raked 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3mm) at every fourth course and embedding the same in adjoining masonry / columns by drilling holes etc. complete. Super structure upto 20.0 above plinth level.	Sqm ✓	125	66.98 ✓	680	45,546.40 ✓	66.98 ✓	45,546.40 ✓		



For CHENNAI ENGINEERS

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
110	<u>Masonry - Brickwork, conventional bricks</u> Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	Cum ✓	85	188.95 ✓	4,250.00 ✓	8,03,037.50 ✓	188.95 ✓	8,03,037.50 ✓		
111	Providing brick work with bricks of class 75, joints finished flush / raked to 12mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in: Superstructures upto 20.0 m above plinth level.	Cum ✓	125	38.99 ✓	4,400.00 ✓	1,71,556.00 ✓	38.99 ✓	1,71,556.00 ✓		



S.M. Deyare

For CHENNAI ENGINEERS
[Signature]
D. Srinivasan

68

No.69, 2nd Cross Street, Srimivasa Nagar, Kulathur, Chennai – 600 099.

690
95

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
105	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:2:4 nominal mix(1.5m below and upto 1.2m above G.L)	Cum ✓	28	13.62 ✓	4500.00 ✓	61,290.00 ✓	13.62 ✓	61,290.00 ✓		
109.	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. A allow for stacking, curing and handling at all levies above / below GL.	Cum ✓	33.5	6.612 ✓	10,000 ✓	66,120.00 ✓	6.612 ✓	66,120.00 ✓		
Total Summary carry over							20,34,867.00 ✓	19,98,052.00 ✓	36,815.00 ✓	

For CHENNAI ENGINEERS



No.69, 2nd Cross Street, Rajivnagar, Kulathur, Chennai - 600 099.

Proprietor:

69)

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	Cum	15	176.88	3700	6,54,456.00	176.88	6,54,456.00		
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings.	Cum	57	115.55	3,700.00	4,27,535.00	105.60	3,90,720.00	9.95	36,815.00

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for CHENNAI ENGINEERS



No.69, 2nd Cross Street, Sri Vasava Nagar, Kulathur, Chennai - 600 099.

Proprietor.

97

692

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
100.	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, binding with 18 gauge annealed steels wire, complete, of grade: Fe 415.	Tonne	15	9.287	55,000.00	5,10,785.00	9.287	5,10,785.00		
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	Cum	40	41.85	3,500.00	1,46,475.00	41.85	1,46,475.00		
102.	Providing and laying cement concrete with fine sand and graded stone aggregates, 40mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix 1:4:8.	Cum	18	10.93	3,500.00	38,255.00	10.93	38,255.00		



For CHENNAI ENGINEERS

No.69, 2nd Cross Street, Srinagar Nagar, Kulathur, Chennai - 600 099.

Dr. Pravin

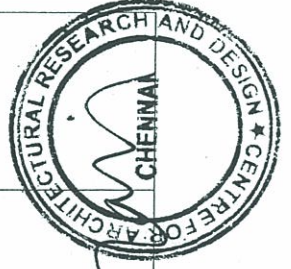
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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
	Total Summary carry over					28,73,206.90		28,73,206.90		
	Concrete Formwork and Accessories									
	Plain cement concrete									
92.	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including structuring, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, easing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is upto 4.00 m : Sides of footings of columns the floor height is up to 4.00m : Sides of footings of columns and walls and sides of base slabs.	Sqm	35	433.17	300	1,29,951.00	433.17	1,29,951.00		

(72)



For CHENNAI ENGINEERS

No.69, 2nd Cross Street, Srinivasa Nagar, Kujalaapur, Chennai - 600 099.

Proprietor:

694

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CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
56	<p>Termite - Pre treatment Providing and injecting chemical emulsion for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured): Using Chloropyriphos Emulsifiable concentrate 0.2%.</p>	Sqm	1150	1,179.52	60.00	70,771.20	1,179.52	70,771.20		

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for CHENNAI ENGINEERS

No.69, 2nd Cross Street, Srinivasa Nagar, Kothathur, Chennai - 600 099.

Proprietor:

695

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
52.	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth upto 1.5m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50m complete, of pipes, cables of sizes: upto 80mm dia, and (minimum width of trench 600mm)	m	230	65.55	150.00	9,832.50	65.55	9,832.50		



S. M. Sathya

For CHENNAI ENGINEERS

 Proprietor.

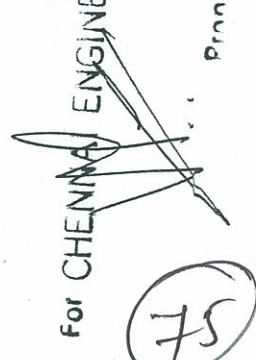
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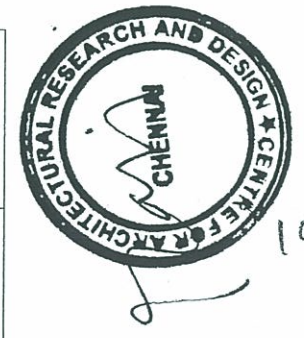
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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
46	Bulk Excavation Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	Cum	110	692.54	250	1,73,135.00	692.54	1,73,135.00		
48	Add for every additional lift of 1.5 m or part there of in all type of soil	Cum	50	108.13	35	3,784.55	108.13	3,784.55		

For CHENNAI ENGINEERS

 D. Ra. Srinivasan
 Proprietor



No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

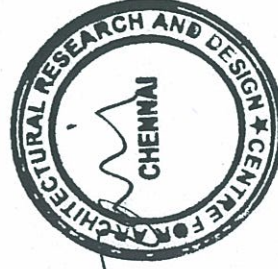
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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
44.	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and leaves etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5 m complete.	Cum ✓	310	111.07 ✓	120.00 ✓	13,328.40 ✓	111.07 ✓	13,328.40 ✓		
45	Supplying and stacking good earth, free from organics impurities.	Cum ✓	825	1194.81 ✓	350.00 ✓	4,18,183.50 ✓	1194.81 ✓	4,18,183.50 ✓		



M.A. Jayaram

for CHENNAI ENGINEERS

Proprietor

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
41	Back fill Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	Cum	325	481.73	140.00	67,442.20	481.73	67,442.20		



S. R. S. Rajeev

For CHENNAI ENGINEERS
[Signature]
Proprietor.

77

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50m lead, complete, of girths (measured at a height of 1.0m above G.L): over 600mm and upto 1200 mm	nos	12	32	1000	32,000.00	32	32,000.00		
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150mm deep, in all types of soil and disposal of rubbish upto a lead of 50m, complete.	100 sm	60	20.00	1100	22,000.00	20.00	22,000		



Sri. Durgam

for CHENNAI ENGINEERS
[Signature]
Proprietor

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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
26	Dismantling CI / GS / PVC asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50m lead, of dia: upto 80mm.	m	30	1080.00	20.00	21,600.00	1080.00	21,600.00		
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50m lead, complete, of girths (measured at a height of 1.0m above G.L.) : over 600mm and upto 1200 mm.	nos	40	10	500	5,000.00	10	5,000.00		

For CHENNAI ENGINEERS

Proprietor

Mr. Suresh



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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	Sqm	900	2285.11	225.00	5,14,149.75	2,285.11	5,14,149.75		
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	Sqm	450	2188.79	250.00	5,47,197.50	2188.79	5,47,197.50		
	Framing demolition									
23	Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	m	50	55.48	800.00	44,384.00	55.48	44,384.00		

For CHENNAI ENGINEERS

(Signature)
Proprietor.

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.



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CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: upto 3 sqm	Ea.✓	34	34	750.00	25,500.00	34	25,500.00		
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: over 3 sqm	Ea.✓	4	8	1000.00	8,000.00	8	8,000.00		
19	Dismantling expanded metal or IRC fabrics along with battens and beadings including stacking the serviceable materials within a 50 m lead.	Sqm✓	375	454.00	215.00	97,610.00	454.00	97,610.00		
	Flooring demolition									



for CHENNAI ENGINEERS

Proprietor.

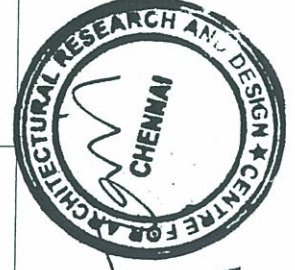
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**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	Cum ✓	380	79.15 ✓	2500.00 ✓	1,97,875.00 ✓	79.15 ✓	1,97,875.00 ✓		
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	Cum ✓	82	184.49 ✓	1200.00 ✓	2,21,388.00 ✓	184.49 ✓	2,21,388.00 ✓		
	Door / window demolition									



J. R. Jayaram

For CHENNAI ENGINEERS

Proprietor

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No.09, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

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109

**CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS**

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	Sqm ✓	50	156.01 ✓	450.00 ✓	70,204.50 ✓	156.01 ✓	70,204.50 ✓		
	Selective demolition									
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	Cum ✓	120	227.52 ✓	1250.00 ✓	2,84,400.00 ✓	227.52 ✓	2,84,400.00 ✓		



Dr. Mr. Jayaraj

for CHENNAI ENGINEERS

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Proprietor

No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai – 600 099.

110
705

CHENNAI ENGINEERS
ENGINEERS & CONTRACTORS

SNo	Description	Unit	Tender qty	Total qty. done till date	Rate	Total Value done till date	Deduction previous measurement		Since last measurements	
							Qty.	Amount	Qty	Value
	<u>SITE PREPARATION</u>									
	<u>Site Demolition</u>									
	<u>External services</u>									
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	m /	5	6	1000.00	6,000.00	6	6000.00		
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	Sqm	155	121.38	160.00	19,420.80	121.38	19,420.80		



No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

Handwritten signature

For CHENNAI ENGINEERS

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Proprietor

706

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2.11.2011

KOOTHAMBALAM - ADDITIONS, ALTERATIONS & CIVIL WORKS
BILL 7 AND PART : SYMMARY

Sl.No.	Item of Work	Total Amount
1.	Site preparation	28,73,206.90 ✓
2.	Concrete form work and accessories	20,34,867.00 ✓
3.	Masonry	12,86,818.40 ✓
4.	Metal work	18,75,841.76 ✓
5.	Wood Work	18,82,807.44 ✓
6.	Damp, waterproofing & thermal production	19,20,075.00 ✓
7.	Doors and Windows	13,98,348.05 ✓
8.	Finishes	1,47,900.00 ✓
	Total	10,65,036.95 ✓
		1,25,87,914.06 ✓
		1,25,96,586.64 ✓

19,05,975.00 ✓

125,87,914.06 ✓

Eighty seven nine Ninety six Thousand Five Hundred and Eighty six and sixty four only)

(Rupees One Crore Twenty Five Lakhs

For CHENNAI ENGINEERS
for CHENNAI ENGINEERS
(V. PANNERSELVAM)

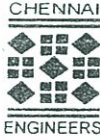
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No.69, 2nd Cross Street, Srinivasa Nagar, Kulathur, Chennai - 600 099.

707
112



CHENNAI ENGINEERS

ENGINEERS & CONTRACTORS

708
113

2.11.2011

M/s. CARD
No. 10A, Dhanalakshmi Colony
Vadapalani
Chennai - 600 026.

Reg: Bill No.7 and part for Addition, Alternation and Civil Work
Work order No. C:/2009-2010/V.Admin/2.Engineering/i.Plan/ Koothambalam/ Additions,
alterations & civil work.doc & Extra work

Dear Sir,

Here we enclosed our Bill No7 and Part for Koothambalam Building at Kalakshetra Foundation. Please certify the bill for payment to expedite the work fast.

Thanking you,

For CHENNAI ENGINEERS

for CHENNAI ENGINEERS
(V. PANNEER SELVAM)
Proprietor

Proprietor

Rate analysis
1. hedge & Handrail.
2. Mat- bill,
D/S. for Handrail.

86

CENTRE FOR ARCHITECTURAL RESEARCH & DESIGN

ARCHITECTURE ○ LANDSCAPE ○ INTERIORS

709

114

Client:Kalakshetra Foundation			
Project:Koothambalam Theatre complex-Proposed Additions,Alterations and Civil works			Tender value:
Completion period=4months	Start date:29.07.10	End date:	Rs.2,19,09,505.00
Work order:	1.C\2009-2010\A.Admin\2.Engineering\i.Plan\Koothambalam\aditions,alterations & civil work.doc dated:17.06.2010		
Value of work done	1,25,87,994.00	Balance of work:	9321511.00

Certificate of Payment		
Name of Contractor :Chennai Engineers & Contractors		
Additions Alteration & civil works		
Bill no.7 and part:		
Value of work executed up to Bill no.7 & part		1,25,87,994.00
a.Less 5% retention of value work done	6,29,399.70	
b.Mobilisation advance on prorata	18,38,543.63	
Total		1,01,20,050.67
Deduct 6th r.a.bill value	1,19,36,233.00	-95,96,071.35
a.Less 5% retention of value work done	5,96,811.65	
b.Mobilisation advance on prorata	17,43,350.00	
	95,96,071.35	
Value of 7th bill		5,23,979.32
Material advance	463612.00	-463612.00
Payable		60,367.32
Amount Recommended for payment Say Rs.		60367.00

Certified for payment the sum of Rupees Sixty thousands three hundred and sixty seven only

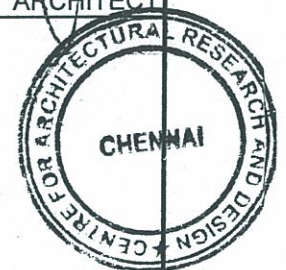
Date:09.11.2011

Client's scope

- * +Sevice tax
- Cess
- IT
- Others

Payment pending-Rs.6,39,458.00-5th R.A.Bill

Ray M. Sankaran
ARCHITECT



(87)

Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (4)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 7th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/sCARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty above 25% and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Rs.	(6) = (3) x (5)	Rs.	(7)	Rs.	(8)		
(1)	(2)														
141	Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles/boards, with two coats of primer, necessary screws where required etc., complete (frame work will be paid for separately), of sizes : 12.5 mm thick Plaster of paris (gypsum anhydrous) ceiling tiles. Concrete flooring.	625.00	Sqm	300.00	1,87,500.00	781.25	2,34,375.00	161.85	45,765.00	152.55	45,765.00			(15)	(16)
146	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landings, steps and similar locations, including nosing of steps, etc. where required, complete : 25 mm thick	225.00	Sqm	250.00	56,250.00	281.25	70,312.50	75.21	18,802.50	75.21	18,802.50				
147	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landings, steps and similar locations, including nosing of steps, etc. where required, complete : 40 mm thick	750.00	Sqm	350.00	2,62,500.00	937.50	3,28,125.00	322.11	1,12,738.50	322.11	1,12,738.50				
148	CONCRETE FLOORING Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	850.00	Sqm	500.00	4,25,000.00	1,062.50	5,31,250.00	907.39	3,91,465.00	782.93	3,91,465.00				
159	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer Paints - Walls & Ceilings	350.00	Sqm	140.00	49,000.00	437.50	61,250.00	2,526.08	2,36,188.40	1,687.06	2,36,188.40	2,088.58	2,92,401.20	597%	25
161	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give an even shade.	1,000.00	Sqm	80.00	80,000.00	1,250.00	1,00,000.00	1,565.12	92,414.40	1,155.18	92,414.40	315.12	25,209.60	32%	26
	Part rate items - 148 -			-300.00			-272,217.00	907.39	-272,217.00	782.93	-234,879.00	907.39	-272,217.00		27
	TOTAL						1,48,86,539.25		1,16,45,800.10		1,16,45,800.10		47,01,239.86	21.4588%	2,19,09,505.00

Excess operation of above 25% quantities alongwith financial implications of all the items - Annexure I (a)														
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 7th and part bill details														
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty above 25% and Amount (Excess)		Justification
								Rs.	(6) = (5) x (5)	Rs.	(7)	Amount	Qty	
(1)	(2)	(3)	(4)	(5)	(6) = (5) x (5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (4.5 m below and upto 1.2 above G.L)	75.00	Cum	2,600.00	1,95,000.00	93.75	2,43,750.00	36.71	95,446.00	36.71	95,446.00			(16)
Metal work														
Structural steel														
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	3,125.00	3,50,000.00	4,666.38	2,38,868.00	2,132.75	2,38,868.00	1,541.38	1,72,634.56	62%
Steel stair														
121	Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	250.00	32,500.00	7,775.44	9,10,000.00	7,000.00	9,10,000.00	7,525.44	9,78,307.20	3763%
Bird Mesh														
122	Refabricating with existing framework with additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	375.00	Kg	125.00	46,875.00	468.75	58,593.75	2,760.00	3,45,000.00	2,760.00	3,45,000.00	2,291.25	2,86,406.25	611%
Wood work														
Wood Framing														
125	Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqm	3,500.00	7,87,500.00	281.25	9,84,375.00	161.85	5,66,475.00	161.85	5,66,475.00			
Roof Truss														
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including according to concrete members with holding down bolts, fixing accessories and all incidental works complete.	20.00	cum	1,50,000.00	30,00,000.00	25.00	37,50,000.00	8.93	12,18,600.00	8.12	12,18,600.00			
Rails and Balusters														
129	Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqm	500.00	3,12,500.00	781.25	3,90,625.00	93.41	46,705.00	93.41	46,705.00			
Roof tiles														
131	Providing and fixing Mangalore tiles of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	200.00	Sqm	910.00	1,82,000.00	250.00	2,27,500.00	1,016.93	9,25,406.30	1,016.93	9,25,406.30	766.93	6,97,906.30	383%
132	Fixing mangalore tiles of size 400x240mm so as to cover an area of 320x210mm. The lap should be not less than 75mm. Provide for necessary mortar jointing, chasing in walls, tile cutting, tile wastage etc.	2,500.00	Sqm	350.00	8,75,000.00	3,125.00	10,93,750.00	995.32	3,48,362.00	995.32	3,48,362.00			
134	Providing and fixing ridge tile and 3 way connector including necessary jointing	115.00	Rm	225.00	25,875.00	143.75	32,343.75	346.11	77,874.75	346.11	77,874.75	202.36	45,531.00	176%
136	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc., in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	200.00	Sqm	265.00	53,000.00	250.00	66,250.00	286.61	75,951.65	286.61	75,951.65	36.61	9,701.65	18%
137	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with fine sand	150.00	Sqm	215.00	32,250.00	187.50	40,312.50	569.94	1,16,977.20	544.08	1,16,977.20	382.44	82,234.60	255%
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with coarse sand	180.00	Sqm	236.00	42,480.00	225.00	53,100.00	110.65	26,113.40	110.65	26,113.40			
Ceiling, wall acoustical tiles														

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Excess operations of above 25% quantities alongwith financial implications of all the items - Annexure I (4)
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 7th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty above 25% and Amount (Excess)		Justification	
								Rs.	(6) = (5) x (4)	Rs.	(7)	Amount	Qty		Amount
(1)	(2)	(3)	(4)	(5)	(6) = (5) x (4)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
92	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc, where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqm	300.00	10,500.00	43.75	13,125.00	433.17	1,29,951.00	433.17	1,29,951.00	389.42	1,16,826.00	111.3%	13
100	Reinforcement steel Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	15.00	Tonne	55,000.00	8,25,000.00	18.75	10,31,250.00	9.29	5,10,785.00	9.29	5,10,785.00				
101	Plain cement concrete Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc, complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	50.00	1,75,000.00	41.85	1,46,475.00	41.85	1,46,475.00				
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc, complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	22.50	78,750.00	10.93	38,255.00	10.93	38,255.00				
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc, complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	18.75	69,375.00	176.88	6,54,456.00	176.88	6,54,456.00	158.13	5,85,081.00	105.4%	14
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	71.25	2,63,625.00	115.55	3,90,720.00	105.60	3,90,720.00	44.30	1,63,910.00	78%	15
105	Structural Concrete - RCC Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	35.00	1,57,500.00	13.62	61,290.00	13.62	61,290.00				
	Precast - Fins/louvers Providing and fixing precast concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below GL.	33.50	Cum	10,000.00	3,35,000.00	41.88	4,18,750.00	6.61	66,120.00	6.61	66,120.00				
	Masonry - Brickwork, conventional bricks Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above G.L.)	85.00	Cum	4,250.00	3,61,250.00	106.25	4,51,562.50	188.95	8,03,037.50	188.95	8,03,037.50	82.70	3,51,475.00	97%	16
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	156.25	6,87,500.00	38.99	1,65,000.00	37.50	1,65,000.00				
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below GL	30.00	Cum	4,250.00	1,27,500.00	37.50	1,59,375.00	40.29	1,19,637.50	28.15	1,19,637.50	2.79	11,857.50	9%	17
115	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level.	125.00	Sqm	680.00	85,000.00	156.25	1,06,250.00	66.98	41,153.60	60.52	41,153.60				
	Random rubble masonry														

Excess operations of above 25% quantities alongwith financial implications of all the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 7th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s/CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty above 25%/and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Amount	Qty	Amount	Qty	Amount	Qty		
		(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(7)	(8)	(9)	(10)	(13)	(14)	(15)	
				Rs.	Rs.										
31	(2) Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL); over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	50.00	25,000.00	10.00	5,000.00	10.00	5,000.00			(15)	~(16)
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL); over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	15.00	15,000.00	32.00	32,000.00	32.00	32,000.00	17.00	17,000.00	142%	8
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100sqm	1,100.00	66,000.00	75.00	82,500.00	20.00	22,000.00	20.00	22,000.00				
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	406.25	56,875.00	481.73	67,442.20	481.73	67,442.20	75.48	10,567.20	23%	9
44	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	387.50	46,500.00	111.07	13,328.40	111.07	13,328.40				
45	Supplying and stacking good earth, free from organics impurities.	825.00	Cum	350.00	2,88,750.00	1,031.25	3,60,937.50	1,194.81	4,18,183.50	1,194.81	4,18,183.50	163.56	57,246.00	20%	10
46	Bulk Excavation Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00	27,500.00	137.50	34,375.00	692.54	1,68,677.50	674.71	1,68,677.50	555.04	1,38,760.00	505%	11
48	Add for every additional lift of 1.5 m or part thereof in: All types of fill	50.00	Cum	35.00	1,750.00	62.50	2,187.50	108.13	3,784.55	108.13	3,784.55	45.63	1,597.05	91%	12
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench 450 mm)	250.00	m	150.00	34,500.00	287.50	43,125.00	65.55	9,832.50	65.55	9,832.50				
56	Termite - Pre treatment Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured); Using Chloropyrophos Emulsifiable concentrate 0.2%.	1,150.00	Sqm	60.00	69,000.00	1,437.50	86,250.00	1,179.52	70,771.20	1,179.52	70,771.20				
Concrete Formwork and Accessories															
Form Work/Centering and Shuttering															
Forms in Place															

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Excess operations of above 25% quantities alongwith financial implications of all the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 7th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty above 25% and Amount (Excess)		No. of Excess quantity compared to Tender Quantity	Justification
								Amount	Qty	Amount	Qty	Amount	Qty		
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(7)	(8)	(9)	(10)	(13)	(14)	(15)	(16)
SITE PREPARATION															
Site Demolition															
External services															
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.25	6,250.00	6.00	6,000.00	6.00	6,000.00				
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concrete wire and the like.														
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	155.00	Sqm	160.00	24,800.00	193.75	31,000.00	121.38	19,420.80	121.38	19,420.80				
11	Selective demolition Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	50.00	Sqm	450.00	22,500.00	62.50	28,125.00	156.01	70,204.50	156.01	70,204.50	93.51	42,079.50	18.7%	1
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	150.00	1,87,500.00	227.52	2,84,400.00	227.52	2,84,400.00	77.52	96,900.00	65%	2
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposal of unserviceable materials upto 50 m lead	380.00	Cum	2,500.00	9,50,000.00	475.00	11,87,500.00	79.15	1,97,875.00	79.15	1,97,875.00				
17	Door / window demolition Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas upto 3 sqm	82.00	Cum	1,200.00	98,400.00	102.50	1,23,000.00	184.49	2,17,284.00	181.07	2,17,284.00	81.99	98,388.00	100%	3
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas over 3 sqm	34.00	Ea.	750.00	25,500.00	42.50	31,875.00	34.00	25,500.00	34.00	25,500.00				
19	Dismantling expanded metal or IRC fabrics along with battens and bendings including stacking the serviceable materials within a 50 m lead.	4.00	Ea.	1,000.00	4,000.00	5.00	5,000.00	8.00	8,000.00	8.00	8,000.00	3.00	3,000.00	75%	4
20	Flooring, demolition Dismantling the work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	375.00	Sqm	215.00	80,625.00	468.75	1,00,781.25	454.00	97,610.00	454.00	97,610.00				
21	Dismantling the work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	900.00	Sqm	225.00	2,02,500.00	1,125.00	2,53,125.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,160.11	2,61,024.75	12.9%	5
23	Framing demolition Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	450.00	Sqm	250.00	1,12,500.00	562.50	1,40,625.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,626.29	4,06,572.50	36.1%	6
26	Partitions Demolition Ram water Pipes demolition Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia upto 80 mm	50.00	m	800.00	40,000.00	62.50	50,000.00	55.48	44,384.00	55.48	44,384.00				
		30.00	m	20.00	600.00	37.50	750.00	1,080.00	21,600.00	1,080.00	21,600.00	1,042.50	20,850.00	34.75%	7

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**Excess operation of quantities alongwith financial implications of all the items given in Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation**

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by N/s.CARD in 7 th and part bill	Passed payment so far till 5th and part bill	Variation in Qty and Amount (Excess)	% of increased quantity compared to Tender Quantity	Justification
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	13.62	61,290.00			
	Precast - Fins/louvers									
109	Providing and fixing precast concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below GL.	33.50	Cum	10,000.00	3,35,000.00	6.61	66,120.00			
110	Masonry - Brickwork, conventional bricks									
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	85.00	Cum	4,250.00	3,61,250.00	188.95	8,03,037.50	103.95	4,41,787.50	122%
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	38.99	1,71,556.00	37.50		
115	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below GL.	30.00	Cum	4,250.00	1,27,500.00	40.29	1,71,232.50	10.29	43,732.50	34%
116	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level.	125.00	Sqm	680.00	85,000.00	66.98	45,546.40	60.52	41,153.60	
116	Random rubble masonry									
	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	75.00	Cum	2,600.00	1,95,000.00	36.71	95,446.00	36.71	95,446.00	
	Metal work									
119	Structural steel BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	4,666.38	5,22,634.56	2,132.75	2,38,868.00	87%
121	Steel stair Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	7,775.44	10,10,807.20	7,000.00	9,10,000.00	3788%
122	Bar Mesh Refabricating with existing framework with additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	375.00	Kg	125.00	46,875.00	2,760.00	3,45,000.00	2,760.00	3,45,000.00	636%
	Wood work									
125	Wood Framing Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqm	3,500.00	7,87,500.00	161.85	5,66,475.00	161.85	5,66,475.00	
126	Roof Truss Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc. of size and profile in inclined roofs including ancoing to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2nd class CP teakwood	20.00	cum	1,50,000.00	30,00,000.00	8.93	13,39,500.00	8.12	12,18,600.00	
129	Rails and Balusters Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqm	500.00	3,12,500.00	93.41	46,705.00	93.41	46,705.00	

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Excess operation...of quantities alongwith financial implications of all the items given - Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 7 th and part bill	Passed payment sofar till 5th and part bill	Variation in Qty and Amount (Excess)	% of increased quantity compared to Tender Quantity	Justification
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	481.73	67,442.20	156.73	48%	12
44	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	111.07	13,328.40			
45	Suppling and stacking good earth, free from organics impurities.	825.00	Cum	350.00	2,88,750.00	1,194.81	4,18,183.50	369.81	45%	13
46	Bulk Excavation Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00	27,500.00	692.54	1,73,135.00	582.54	530%	14
48	Add for every additional lift of 1.5 m or part thereof in: All types of Fill	50.00	Cum	35.00	1,750.00	108.13	3,784.55	58.13	116%	15
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench 450 mm)	230.00	m	150.00	34,500.00	65.55	9,832.50			
56	Termite - Pre treatment Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth fillings, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured): Using Chloropyripos Emulsifiable concentrate 0.2%.	1,150.00	Sqrm	60.00	69,000.00	1,179.52	70,771.20	29.52	3%	16
	Concrete Formwork and Accessories									
	Form Work/Centering and shuttering									
	Forms in Place									
92	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, easing, striking, removal etc. complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqrm	300.00	10,500.00	433.17	1,29,951.00	398.17	1138%	17
100	Reinforcement steel Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe-415	15.00	Tonne	55,000.00	8,25,000.00	9.29	5,10,785.00			
	Plain cement concrete									
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	41.85	1,46,475.00	1.85	5%	18
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	10.93	38,255.00			
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	176.88	6,54,456.00	161.88	10799%	19
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm, consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	115.55	4,27,535.00	58.55	103%	20
	Structural Concrete - RCC									

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**Excess operation of quantities along with financial implications of all the items given in Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation**

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 7 th and part bill			Passed payment sofar till 5th and part bill			Variation in Qty and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
						Rs.	(6) = (3) x (5)	Qty	Amount	Rs.	(6) = (3) x (5)	Qty	Amount		
	-2	-3	-4	-5			-7	-8	-9	-10		(11)	(12)	-13	(14)
	SITE PREPARATION														
	Site Demolition														
	External services														
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.00	6,000.00	6.00	6,000.00	6,000.00	1.00	1,000.00	20%	1	
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of servicable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concrete wire and the like.	155.00	Sqm	160.00	24,800.00	121.38	19,420.80	121.38	19,420.80						
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of servicable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqm	450.00	22,500.00	156.01	70,204.50	156.01	70,204.50	106.01	47,704.50	212%	2		
11	Selective demolition														
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	227.52	2,84,400.00	227.52	2,84,400.00	107.52	1,34,400.00	90%	3		
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	79.15	1,97,875.00	79.15	1,97,875.00						
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of servicable materials and disposed of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	184.49	2,21,388.00	181.07	2,17,284.00	102.49	1,22,988.00	125%	4		
	Door / window demolition														
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, halfcast, etc. complete and stacking within a 50 m lead, of areas: upto 3 sqm	34.00	Ea.	750.00	25,500.00	34.00	25,500.00	34.00	25,500.00						
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, halfcast, etc. complete and stacking within a 50 m lead, of areas: over 3 sqm	4.00	Ea.	1,000.00	4,000.00	8.00	8,000.00	8.00	8,000.00	4.00	4,000.00	100%	5		
19	Dismantling expanded metal or IRC fabrics along with battens and beadings including stacking the servicable materials within a 50 m lead.	375.00	Sqm	215.00	80,625.00	454.00	97,610.00	454.00	97,610.00	79.00	16,985.00	21%	6		
	Flooring demolition														
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of servicable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqm	225.00	2,02,500.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,385.11	3,11,649.75	154%	7		
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of servicable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	450.00	Sqm	250.00	1,12,500.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,738.79	4,54,697.50	386%	8		
	Framing demolition														
23	Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqm	50.00	m	8000.00	40,000.00	55.48	44,384.00	55.48	44,384.00	5.48	4,384.00	11%	9		
	Partitions Demolition														
	Rain water Pipes demolition														
26	Dismantling GI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the servicable material and disposal of unserviceable material within a 50 m lead, of dia: upto 80 mm	30.00	m	20.00	600.00	1,080.00	21,600.00	1,080.00	21,600.00	1,050.00	21,000.00	3500%	10		
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of servicable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	10.00	5,000.00	10.00	5,000.00						
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of servicable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	32.00	32,000.00	32.00	32,000.00	20.00	20,000.00	167%	11		
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100srr	1,100.00	66,000.00	20.00	22,000.00	20.00	22,000.00						

Sl. No.	Description of the works	Total expenditure	Approval already received	Approval now sought for	Paid so far	Balance to be paid	Remarks
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I.	53,87,212.56	50,42,365.90	3,44,846.56	50,42,365.90	3,44,846.56	
2 (a)	Under-operation of items given in Annexure II	27,06,555.12	-	---	---	---	
2 (b)	Non-operated items given in Annexure III	46,50,900.00	-	---	---	---	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV.	62,25,257.39	62,25,257.39	----	58,54,595.00	3,70,662.00	-

Service tax as applicable 4.12%

Hence, Works Committee approval is sought for

Excess operation of quantities to the tune of Rs. 3, 44,846.56 (which is over and above Rs.50,42,365.90/- already approved) due to increase in work based on site condition for which separate statement was prepared and submitted at folio. 126 to 129.

J. Ramachandra
AO 13/12/11

CAO

Deputy Director

Director

Submitted for orders please

No details for the excess quantity of quantities with corresponding value of 3.45 lakh is worked out and placed at page 128-126/c, pl. may be approved
EO *[Signature]*
11/12/11

Works committee Members

Director

Smt Madhavi Mudgal

Deputy Director

Shri.P.T.Krishnan

NOTE

December 6, 2011

Sub: Koothambalam - Additions, Alterations and civil works – Reg.

- | | |
|--|----------------------|
| Ref:i) Contract No.3/ 2010-2011 | Page – separate file |
| ii) W.O. dated June 17.7.2010 | Page- separate file |
| iii) Agreement dated 9th July 2010 | Page- separate file |
| iv) The works Committee earlier approval note dated September 17, 2011 | Page – 52, 53 |

A reference is invited
Please refer to the contract and subsequent agreement entered into with M/s.CARD for a total value of Rs.2.19 crore for the above work. During the course of execution of work, M/s.CARD has requested for deviation of contract conditions in his letter dated 15.09.2011. The same was approved by the works committee on September 17, 2011 and the deviations up to 5th and part bill recommended by M/s.CARD to the contractor M/s.Chennai Engineers was accepted and paid.

separate file.
Page 1, 2, 3.
Page 1 to 53

- 1) Excess operation quantities to the tune of Rs.50, 42,365.90 (which includes excess operation quantities above 25% to the tune of Rs.42, 59,669.80) was approved by the Works Committee, works progressed up to 5th and part bill and paid to the contractor as certified and recommended by the consulting Architect M/s.CARD.
- 2) Approval for under operation of items given in Annexure II and non-operation of items given in Annexure III as requested by M/s.CARD
- 3) Introduction of new items to the tune of Rs.62,25,257.39 (which includes for Rs. Rs.30,21,750/-which is already approved by the Works Committee)

Page 52, 53
Page 52, 53

Now after taking in to account 6th and 7th part bills lodged by the M/s.CARD, the following deviation are noticed which are absolutely essential in executing for renovation of koothambalam as indicated in the deviated statement as verified M/s.CARD.

Page 54 to 114.

The excess operation of items (which includes excess operation above 25%), under operated items, non operated items and introduction of new items up to 7th and part bill is indicated below for approval. The justification note for such deviation as submitted by M/s.CARD may also been at folio at 1,2 and 3. The rate adopted for these excess operations is same as quoted in the tender for the similar items and the same was concurred by finance.

Page 1, 2, 3

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Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)													
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details													
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 9th and part bill	Passed payment sofar till 9th and part bill	Variation in Qty above 25%and Amount (Excess)	% of increased quantity compared to Tender Quantity	Justification	
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(7)	(9)	(10)	(14)	(15)	(16)
				Rs.	Rs.			Amount	Qty	Amount	Qty	Amount	
141	Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles/boards, with two coats of primer, necessary screws where required etc., complete (frame work will be paid for separately), of sizes : 12.5 mm thick Plaster of paris (gypsum anhydrous) ceiling tiles.	625.00	Sqm	300.00	1,87,500.00	781.25	2,34,375.00	190.62	57,186.00	190.62	57,186.00		
	Concrete flooring												
146	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landings, steps and similar locations, including nosing of steps etc. where required, complete : 25 mm thick	225.00	Sqm	250.00	56,250.00	281.25	70,312.50	75.21	18,802.50	75.21	18,802.50		
147	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landings, steps and similar locations, including nosing of steps etc. where required, complete : 40 mm thick	750.00	Sqm	350.00	2,62,500.00	937.50	3,28,125.00	322.11	1,12,738.50	322.11	1,12,738.50		
148	CONCRETE FLOORING Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	850.00	Sqm	500.00	4,25,000.00	1,062.50	5,31,250.00	907.39	4,53,695.00	907.39	4,53,695.00		
159	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer	350.00	Sqm	140.00	49,000.00	437.50	61,250.00	2,526.08	3,53,651.20	2,526.08	3,53,651.20	59.7%	25
	Paints - Walls & Ceilings												
161	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give an even shade.	1,000.00	Sqm	80.00	80,000.00	1,250.00	1,00,000.00	1,565.12	1,25,209.60	1,565.12	1,25,209.60	32%	26
	Part rate items - 148 -	750.00	Sqm	-300.00	-225,000.00			907.39	-272,217.00	907.39	-272,217.00		
	TOTAL				1,23,51,755.00			1,40,73,988.14		1,40,73,988.14		59,09,452.70	26.972%

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Variation Qty
above 25% and
Amount

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Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount		25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 9th and part bill		Variation in Qty above 25% (and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
					Rs.	(6) = (3) x (5)			Rs.	(7)	Amount	Qty		
(1)	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including according to concrete members with holding down bolts, fixing accessories and all incidental works complete.	20.00	cum	1,50,000.00	30,00,000.00	25.00	37,50,000.00	11.40	17,10,450.00	11.40	17,10,450.00	0.00	0.00	
126	2nd class CP teakwood													
129	Rails and Balusters Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqm	500.00	3,12,500.00	781.25	3,90,625.00	114.12	57,060.00	114.12	57,060.00	0.00	0.00	
131	Roof tiles Providing and fixing Mangalore tiles of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	200.00	Sqm	910.00	1,82,000.00	250.00	2,27,500.00	1,016.93	9,25,406.30	1,016.93	9,25,406.30	766.93	6,97,906.30	383%
132	Fixing mangalore tiles of size 400x240mm so as to cover an area of 320x210mm. Te lap should be not less than 75mm. Provide for necessary mortar jointing, chasing in walls, tile cutting, tile wastage etc.	2,500.00	Sqm	350.00	8,75,000.00	3,125.00	10,93,750.00	995.32	3,48,362.00	995.32	3,48,362.00	0.00	0.00	
133	Providing and fixing ridge tile and 3 way connector including necessary jointing	115.00	Rm	225.00	25,875.00	143.75	32,343.75	346.11	77,874.75	346.11	77,874.75	202.36	45,531.00	176%
	Doors and Windows													
	Wooden frames													
134	Providing, fabricating and fixing in position selected quality seasoned & chemically treated wood work in frames and sub frames of doors, windows, clerestory windows and other frames, wrought to size & profile with mitred joints, including fixing to supports with threaded expansion bolts / hold fasts or other fixing accessories, complete : 2nd class CP teak wood	2.50	Cum	1,70,000.00	4,25,000.00	3.13	5,31,250.00	0.87	1,47,900.00	0.87	1,47,900.00	0.00	0.00	
136	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc., in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	200.00	Sqm	265.00	53,000.00	250.00	66,250.00	286.61	75,951.65	286.61	75,951.65	36.61	9,701.65	18%
137	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with fine sand	150.00	Sqm	215.00	32,250.00	187.50	40,312.50	601.94	1,29,417.10	601.94	1,29,417.10	414.44	89,104.60	276%
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with coarse sand	180.00	Sqm	236.00	42,480.00	225.00	53,100.00	130.74	30,854.64	130.74	30,854.64	0.00	0.00	
	Ceiling, wall acoustical tiles													

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Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Variation in Qty above 25% and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Rs.	(6) = (3) x (5)	Rs.	(7)	(8)	(9)		
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
115	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level.	125.00	Sqm	680.00	85,000.00	156.25	1,06,250.00	66.98	45,546.40	66.98	45,546.40				
	Random rubble masonry														
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	75.00	Cum	2,600.00	1,95,000.00	93.75	2,43,750.00	36.71	95,446.00	36.71	95,446.00				
	Metal work														
	Structural steel														
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	3,125.00	3,50,000.00	8,394.25	9,40,156.00	8,394.25	9,40,156.00	5,269.25	5,90,156.00	211%	18
120	BUILT UP SECTION Providing and applying three finish coats of synthetic enamel paint on steel surfaces, complete.	225.00	Sqm	110.00	24,750.00	281.25	30,937.50								
	Steel stair														
121	Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	250.00	32,500.00	11,704.32	15,21,561.60	11,704.32	15,21,561.60	11,454.32	14,89,061.60	5727%	19
	Bird Mesh														
122	Refabricating with existing framework with additional rod welded support and spreading G1 welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	375.00	Kg	125.00	46,875.00	468.75	58,593.75	2,760.00	3,45,000.00	2,760.00	3,45,000.00	2,291.25	2,86,406.25	611%	20
	Wood work														
	Wood Framing														
125	Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqm	3,500.00	7,87,500.00	281.25	9,84,375.00	190.62	6,67,170.00	190.62	6,67,170.00				
	Roof Truss														

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Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)															
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details															
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s CARD in 9th and part bill		Passed payment so far till 9th and part bill		Variation in Qty above 25%(and Amount (Excess)		Justification	
								Rs.	(6) = (3) x (5)	Rs.	(7)	Amount	Qty		Amount
(1)	Plain cement concrete	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(7)	(8)	(9)	(10)	(13)	(14)	(15)	(16)
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curring etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	50.00	1,75,000.00	41.85	1,46,475.00	41.85	1,46,475.00				
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curring etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	22.50	78,750.00	10.93	38,255.00	10.93	38,255.00				
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curring etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	18.75	69,375.00	176.88	6,54,456.00	176.88	6,54,456.00	158.13	5,85,081.00	1054%	14
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	71.25	2,63,625.00	115.55	4,27,535.00	115.55	4,27,535.00	44.30	1,63,910.00	78%	15
105	Structural Concrete - RCC														
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centring, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	35.00	1,57,500.00	14.38	64,710.00	14.38	64,710.00				
109	Precast - Fins/louvers														
109	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below GL.	33.50	Cum	10,000.00	3,35,000.00	41.88	4,18,750.00	8.13	81,330.00	8.13	81,330.00				
110	Masonry - Brickwork, conventional bricks														
110	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	85.00	Cum	4,250.00	3,61,250.00	106.25	4,51,562.50	188.95	8,03,037.50	188.95	8,03,037.50	82.70	3,51,475.00	97%	16
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	156.25	6,87,500.00	46.58	2,04,952.00	46.58	2,04,952.00				
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below GL.	30.00	Cum	4,250.00	1,27,500.00	37.50	1,59,375.00	40.29	1,71,232.50	40.29	1,71,232.50	2.79	11,857.50	9%	17

Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount		25% Above tender qty	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Variation in Qty above 25%and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification	
					Rs.	(6) = (3) x (5)		Rs.	(7)	Rs.	(8)	Rs.	(9)			Rs.
(1)	(2)	(3)	(4)	(5)			(7)	(8)	(7)	(8)	(9)	(10)	(13)	(14)	(15)	(16)
46	Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00	27,500.00	137.50	34,375.00	692.54	1,73,135.00	692.54	1,73,135.00	555.04	1,38,760.00	505%	11	
48	Add for every additional lift of 1.5 m or part thereof in: All types of Fill	50.00	Cum	35.00	1,750.00	62.50	2,187.50	108.13	3,784.55	108.13	3,784.55	45.63	1,597.05	91%	12	
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench 450 mm)	230.00	m	150.00	34,500.00	287.50	43,125.00	65.55	9,832.50	65.55	9,832.50					
56	Termite - Pre treatment Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth fillings, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured); Using Chloropyrophos Emulsifiable concentrate 0.2%.	1,150.00	Sqm	60.00	69,000.00	1,437.50	86,250.00	1,179.52	70,771.20	1,179.52	70,771.20					
	Concrete Formwork and Accessories															
	Form Work/ Centering and shuttering															
	Forms in Place															
92	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, casing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqm	300.00	10,500.00	43.75	13,125.00	433.17	1,29,951.00	433.17	1,29,951.00	389.42	1,16,826.00	1113%	13	
	Reinforcement steel															
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	15.00	Tonne	55,000.00	8,25,000.00	18.75	10,31,250.00	9.29	5,10,785.00	9.29	5,10,785.00					

Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Variation in Qty above 25%(and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
								Rs.	(6) = (3) x (5)	Rs.	(7)	Amount	Qty		
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm Framing demolition	450.00	Sqm	250.00	1,12,500.00	562.50	1,40,625.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,626.29	4,06,572.50	361%	6
23	Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm Partitions Demolition	50.00	m	800.00	40,000.00	62.50	50,000.00	55.48	44,384.00	55.48	44,384.00				
26	Rain water Pipes demolition Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia: upto 80 mm	30.00	m	20.00	600.00	37.50	750.00	1,080.00	21,600.00	1,080.00	21,600.00	1,042.50	20,850.00	3475%	7
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	50.00	25,000.00	10.00	5,000.00	10.00	5,000.00				
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	15.00	15,000.00	32.00	32,000.00	32.00	32,000.00	17.00	17,000.00	142%	8
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100sqm	1,100.00	66,000.00	75.00	82,500.00	20.00	22,000.00	20.00	22,000.00				
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	406.25	56,875.00	481.73	67,442.20	481.73	67,442.20	75.48	10,567.20	23%	9
44	Filling available excavated earth (excluding rock) in trenches, plantns, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	387.50	46,500.00	111.07	13,328.40	111.07	13,328.40				
45	Supplying and stacking good earth, free from organics impurities. Bulk Excavation	825.00	Cum	350.00	2,88,750.00	1,031.25	3,60,937.50	1,194.81	4,18,183.50	1,194.81	4,18,183.50	163.56	57,246.00	20%	10

Excess operation above 25% quantities alongwith financial implications of the items - Annexure I (a)

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation - 9th and part bill details

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	25% Above tender qty	25% above value	Bill claimed by M/s.CARD in 9th and part bill	Amount	Qty	Amount	Passed payment sofar till 9th and part bill	Qty	Amount	Variation in Qty above 25%(and Amount (Excess)	Qty	Amount	% of increased quantity compared to Tender Quantity	Justification
		(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(7)	(8)	(9)	(10)	(10)	(13)	(14)	(15)	(16)			
	SITE PREPARATION																		
	Site Demolition																		
	External services																		
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.25	6,250.00	6.00	6,000.00	6.00	6,000.00	6,000.00							
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	155.00	Sqm	160.00	24,800.00	193.75	31,000.00	121.38	19,420.80	121.38	19,420.80	19,420.80							
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqm	450.00	22,500.00	62.50	28,125.00	156.01	70,204.50	156.01	70,204.50	70,204.50	93.51	42,079.50	187%				1
	Selective demolition																		
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	150.00	1,87,500.00	227.52	2,84,400.00	227.52	2,84,400.00	2,84,400.00							2
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	475.00	11,87,500.00	79.15	1,97,875.00	79.15	1,97,875.00	1,97,875.00							
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	102.50	1,23,000.00	185.19	2,22,228.00	185.19	2,22,228.00	2,22,228.00	82.69	99,228.00	101%				3
	Door / window demolition																		
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: upto 3 sqm	34.00	Ea.	750.00	25,500.00	42.50	31,875.00	34.00	25,500.00	34.00	25,500.00	25,500.00							
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: over 3 sqm	4.00	Ea.	1,000.00	4,000.00	5.00	5,000.00	8.00	8,000.00	8.00	8,000.00	8,000.00	3.00	3,000.00	75%				4
19	Dismantling expanded metal or IRC fabrics along with battens and beadings including stacking the serviceable materials within a 50 m lead.	375.00	Sqm	215.00	80,625.00	468.75	1,00,781.25	454.00	97,610.00	454.00	97,610.00	97,610.00							
	Flooring demolition																		
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqm	225.00	2,02,500.00	1,125.00	2,53,125.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	5,14,149.75	1,160.11	2,61,024.75	129%				5

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Xoothambalam work - Non-tendered items - 10th and part bill

SNo	Description	Tender Qty	Unit	Rate/Unit	Rate/Unit	Rate/Unit	Total bill value upto 7th and part			8th bill			9th and part			Total bill value up to 9th and part			10th and part			Total bill value up to 10th and part			Difference			
							Rs.	Rs.	Rs.	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty		Amount	Qty	Amount
(1)	(2)	(3)	(4)	(5)	(5)	(6) = (3) x (5)	(21) = (7+9+11+13+15+17+19)	(22) = (8+10+12+14+16+18+20)	(21)	(22) = (21x5)	(21)	(22) = (21x5)	(21)	(22) = (21x5)	(23) = (7+9+11+13+15+17+19+21)	(24) = (8+10+12+14+16+18+20+22)	(25)	(26) = (26x5)	(27) = (7+9+11+13+15+17+19+21+25)	(28) = (8+10+12+14+16+18+20+22+26)								
23.1	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 mm frames and 30 x 20 mm wooden louvers both sides including fixing in position etc	0.00	Sqrm	5,586.00		0.00	174.37	9,74,030.82	0.00	0.00	0.00	0.00	0.00	174.37	9,74,030.82	0.00	0.00	174.37	9,74,030.82	0								
23.2	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 mm frames and 30 x 20 mm wooden louvers single side including fixing in position etc	0.00	Sqrm	3,964.00		0.00	83.19	3,29,765.16	0.00	0.00	0.00	0.00	0.00	83.19	3,29,765.16	0.00	0.00	83.19	3,29,765.16	0								
23.3	Wooden louver for bird mesh between the beam gaps and dress gaps with 25 x 50 mm frames and 30 x 20 mm wooden louvers single side including fixing in position etc	0.00	Sqrm	3,964.00		0.00	22.96	91,013.44	0.00	0.00	0.00	0.00	0.00	22.96	91,013.44	0.00	0.00	22.96	91,013.44	0								
24	Fabricating 50 x 50 angles with 50 x 6 mm flat for parapet fin concrete at all balcony railings (tender item rate 119)	0.00	Kgs	112.00		0.00	914.99	1,02,478.88	0.00	0.00	0.00	0.00	0.00	914.99	1,02,478.88	0.00	0.00	914.99	1,02,478.88	0								
25	Providing and fixing GI sheet gutter with multiples all around and fix in position	0.00	RM	1,815.00		0.00	36.09	65,503.35	0.00	0.00	0.00	0.00	0.00	36.09	65,503.35	0.00	0.00	36.09	65,503.35	0								
26	Marking inside and out side levels survey bill enclosed	0.00	job	1,25,000.00		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0								
27	Staircase pedestal	0.00	No	500.00	1,000.00	0.00	35.00	20,000.00	0.00	0.00	0.00	0.00	0.00	35.00	20,000.00	0.00	0.00	35.00	20,000.00	0								
28	Ahistanam work																											
28.1	P.C.C. 1:4:8	0.00	Cum	4,527.00		0.00	15.45	69,942.15	0.00	0.00	0.00	0.00	0.00	15.45	69,942.15	0.00	0.00	15.45	69,942.15	0								
28.2	Brick work in CM 1:6	0.00	Cum	6,064.00		0.00	46.36	2,81,127.04	0.00	0.00	0.00	0.00	0.00	46.36	2,81,127.04	0.00	0.00	46.36	2,81,127.04	0								
28.3	Cornice work decorative plastering	0.00	RM	200.00	350.00	0.00	2,317.77	8,11,219.50	0.00	0.00	0.00	0.00	0.00	2,317.77	8,11,219.50	0.00	0.00	2,317.77	8,11,219.50	0								
29	Wooden louver inside auditorium	0.00	sqrm	4,679.00		0.00	38.20	1,78,737.80	0.00	0.00	0.00	0.00	0.00	38.20	1,78,737.80	0.00	0.00	38.20	1,78,737.80	0								
30	Teak wood cost escalation	0.00	Cum	18,380.00	28,917.00	10,537.00	34.79	6,39,440.20	34.79	6,39,440.20	5.987	1,10,041.06	40.78	7,49,499.64	40.778	4,29,677.79	40.778	4,29,677.79	40.778	11,79,177.43	0							
31	L band work	0.00	RM	154.00		0.00	102.14	15,729.56	0.00	0.00	0.00	0.00	0.00	102.14	15,729.56	0.00	0.00	102.14	15,729.56	0								
32	Providing and fixing 80 x 40 mm thick 2.8 mm tubular section by making pocket for holding and pack with concrete at sill level as directed by Architect	0.00	RM	632.00	636.00	0.00	102.14	64,552.48	0.00	0.00	0.00	0.00	0.00	102.14	64,552.48	0.00	0.00	102.14	64,552.48	-408.56								
33	Staircase Hand rail- Vertical tubular section 40 x 40 mmx2.8mm thick handrail	0.00	RM	430.00		0.00	80.84	34,761.20	0.00	0.00	0.00	0.00	0.00	80.84	34,761.20	0.00	0.00	80.84	34,761.20	0								
33.1	Staircase Hand rail- Horizontal tubular section 40 x 40 mmx2.8mm thick handrail	0.00	RM	321.00		0.00	195.21	62,662.41	0.00	0.00	0.00	0.00	0.00	195.21	62,662.41	0.00	0.00	195.21	62,662.41	0								
34	Providing and fixing 250 mm width and 25 mm thick mm plank over parapet and column cladding including fixing lock joint in wood.	0.00	Sft	6,027.00	6,251.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-4480.00								
35	Providing and fixing wall ledge on balcony slabs as per Architect instruction for the size 75mm width.	0.00	RM	617.60	627.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-336.33								
36	Providing and fixing wall ledge on balcony slabs as per Architect instruction for the size 125mm width.	0.00	RM	786.30	793.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-239.73								

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Koothambalam work - Non-tendered items - 10th and part bill

SNo	Description	Tender Qty	Unit	Rate/Unit	Rate/Unit	Total bill value upto 7th and part			8th bill			9th and part			Total bill value up to 9th and part			10th and part			Total bill value up to 10th and part			Difference	
						Rs.	Rs.	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount		Qty
(1)	(2)	(3)	(4)	(5)	(5)	(6) = (3) x (4)	(21) = (7+9+11+13+15+17+19)	(22) = (8+10+12+14+16+18+20)	(21)	(22) = (21x5)	(21)	(22) = (21x5)	(21)	(22) = (21x5)	(23) = (7+9+11+13+15+17+19+21)	(24) = (8+10+12+14+16+18+20+22)	(25)	(26) = (26x5)	(27) = (7+9+11+13+15+17+19+21+25)	(28) = (8+10+12+14+16+18+20+22+28)					
16	Providing and fixing re bar grouting to the existing beams and slab with Hilti chemical for green room area.(Refer P.No. 11 Extra work MB 1)																								
16.1	16 mm dia Rod	0.00	No	233.00	0.00	0.00	302.00	70,366.00	0.00	0.00	0.00	0.00	0.00	302.00	70,366.00	0.00	0.00	302.00	70,366.00	0.00	0.00	302.00	70,366.00	0	
16.2	20 mm dia Rod	0.00	No	472.00	0.00	0.00	114.00	53,808.00	0.00	0.00	0.00	0.00	0.00	114.00	53,808.00	0.00	0.00	114.00	53,808.00	0.00	0.00	114.00	53,808.00	0	
16.3	12 mm dia Rod	0.00	No	149.50	0.00	0.00	595.00	88,952.50	0.00	0.00	0.00	0.00	0.00	595.00	88,952.50	0.00	0.00	595.00	88,952.50	0.00	0.00	595.00	88,952.50	0	
16.4	10 mm dia rod	0.00	No	113.60	0.00	0.00	296.00	33,625.60	0.00	0.00	0.00	0.00	0.00	296.00	33,625.60	0.00	0.00	296.00	33,625.60	0.00	0.00	296.00	33,625.60	0	
17	Providing and fixing teak wood outer in valley area for the roof in 1" plank including nailing all etc.(Refer P. 13 Extra work MB 1)																								
18	Fabrication work in stage area	0.00	Sqm	4,652.00	0.00	0.00	36.09	1,67,890.68	0.00	0.00	7.83	36,425.16	43.92	2,04,315.84	43.92	2,04,315.84	0.00	0.00	43.92	2,04,315.84	0.00	0.00	43.92	2,04,315.84	0
18.1	Fabricating and erecting angular section steel above the stage area as per Drawing given by Architect with 75 x 75 x 5 mm and 50 x 50 x 5 mm section (Rates as per tender item No.119)																								
18.2	Fabricating and erecting the existing available GI pipe at intermediates of the grid as per drawing.	0.00	Kg	112.00	0.00	0.00	3,378.51	3,78,393.12	0.00	0.00	0.00	0.00	0.00	3,378.51	3,78,393.12	0.00	0.00	3,378.51	3,78,393.12	0.00	0.00	3,378.51	3,78,393.12	0	
18.3	Providing and fixing 50 x 50 mm spacing of 3 mm weld mesh over angles (rates as per tender item No.122)	0.00	Kg	40.00	0.00	0.00	675.00	27,000.00	0.00	0.00	0.00	0.00	0.00	675.00	27,000.00	0.00	0.00	675.00	27,000.00	0.00	0.00	675.00	27,000.00	0	
18.4	Prepare surface and apply three coats of enamel paint over one coat of primer (rates as per tender item no.159)	0.00	Kg	125.00	0.00	0.00	658.69	82,336.25	0.00	0.00	0.00	0.00	0.00	658.69	82,336.25	0.00	0.00	658.69	82,336.25	0.00	0.00	658.69	82,336.25	0	
19	Providing and laying in position, specified mix of RCC including compaction and curing complete but excluding centering, shuttering and reinforcement 1:1 1/2 : 3 nominal mix (1.5 m below and up to 1.2 m above G.L.) (Refer P.No. MB 2)	0.00	Sqm	140.00	0.00	0.00	318.14	44,539.60	0.00	0.00	0.00	0.00	0.00	318.14	44,539.60	0.00	0.00	318.14	44,539.60	0.00	0.00	318.14	44,539.60	0	
20	Providing and fixing 75 mm 6 gauge PVC pipe for temporary re routing water line behind the koothambalam (Refer P.No.17 extra work MB 1)	0.00	Cum	5,411.60	0.00	0.00	77.46	4,19,182.54	0.00	0.00	0.00	0.00	0.00	77.46	4,19,182.54	0.00	0.00	77.46	4,19,182.54	0.00	0.00	77.46	4,19,182.54	0	
21	Providing and laying better block masonry work of size: 400 x 200 x200 and cement mortar 1:4 for gallery step work	0.00	RM	255.00	0.00	0.00	65.55	16,715.25	0.00	0.00	0.00	0.00	0.00	65.55	16,715.25	0.00	0.00	65.55	16,715.25	0.00	0.00	65.55	16,715.25	0	
22	Fabricating and bending to form circular cylinder for jet nozzles for AC work with 3.2 mm MS.Sheet kept in position	0.00	Cum	714.00	838.00	0.00	73.76	61,810.88	0.00	0.00	0.00	0.00	0.00	73.76	61,810.88	0.00	0.00	73.76	61,810.88	0.00	0.00	73.76	61,810.88	-91,46.24	
23	Teak wood louver for bird mesh as per details	0.00	No	2,127.97	0.00	0.00	42.00	89,374.74	0.00	0.00	0.00	0.00	0.00	42.00	89,374.74	0.00	0.00	42.00	89,374.74	0.00	0.00	42.00	89,374.74	0	

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Roofthambalam work - Non-tendered items - 10th and part bill

SNo	Description	Tender Qty	Unit	Rate/Unit	Rate/Unit	Rs.	Rs.	Total bill value upto 7th and part			8th bill			9th and part			Total bill value up to 9th and part			10th and part			Total bill value up to 10th and part	Difference	
								Qty	Amount	Rs.	Qty	Amount	Rs.	Qty	Amount	Rs.	Qty	Amount	Rs.	Qty	Amount	Rs.			Qty
(1)	(2)	(3)	(4)	(5)	(5)	(6) = (3) x (4)	(7) = (3) x (5)	(21) = (7+9+11+13+15+17+19)	(22) = (8+10+12+14+16+18+20)	(21)	(22) = (21x5)	(21)	(22) = (21x5)	(21)	(23) = (7+9+11+13+15+17+19+21)	(24) = (8+10+12+14+16+18+20+22)	(25)	(26) = (26x5)	(27) = (7+9+11+13+15+17+19+21+25)	(28) = (8+10+12+14+16+18+20+22+28)					
1	Providing and apply 2 coats of Linseed oil for battens and rafter on the roof area.(Refer P.No.6 Extra work MB 1)	0.00	Sqrm	110.00		0.00	2,803.81	3,083,419.10	0.00	237.91	26,170.10	0.00	3,041.72	3,34,589.20	0.00	3,041.72	3,34,589.20	0.00	3,041.72	3,34,589.20	0.00	3,041.72	3,34,589.20	0	
2	Removing and handing over the Kalasam (big) Refer P.No.6 Extra work MB1	0.00	No	3,000.00		0.00	2.00	6,000.00	0.00	0	0.00	0.00	2.00	6,000.00	0.00	2.00	6,000.00	0.00	2.00	6,000.00	0.00	2.00	6,000.00	0	
3	Removing and handing over the Kalasam (small) Refer P.No.6 Extra work MB1	0.00	No	2,000.00		0.00	1.00	2,000.00	0.00	0	0.00	0.00	1.00	2,000.00	0.00	1.00	2,000.00	0.00	1.00	2,000.00	0.00	1.00	2,000.00	0	
4	Dismantling and removing stane and handing over to the client(Refer P.No.7 extra work MB 1)	0.00	No	200.00		0.00	54.00	10,800.00	0.00	0	0.00	0.00	54.00	10,800.00	0.00	54.00	10,800.00	0.00	54.00	10,800.00	0.00	54.00	10,800.00	0	
5	Dismantling the existing name stone on handing over to the client(Refer P.No.7 extra work MB 1)	0.00	Nos	500.00		0.00	2.00	1,000.00	0.00	0	0.00	0.00	2.00	1,000.00	0.00	2.00	1,000.00	0.00	2.00	1,000.00	0.00	2.00	1,000.00	0	
6	Cleaning and carting away the existing debris.(Refer P.No.7 Extra Work MB1)	0.00	1 Load	1,200.00		0.00	114.00	1,36,800.00	0.00	0	0.00	0.00	114.00	1,36,800.00	0.00	114.00	1,36,800.00	0.00	114.00	1,36,800.00	0.00	114.00	1,36,800.00	0	
7	Cleaning and carting away the existing debris 1 unit.(Refer P.No.7 Extra Work MB1)	0.00	1 Load	600.00		0.00	34.00	20,400.00	0.00	0	0.00	0.00	34.00	20,400.00	0.00	34.00	20,400.00	0.00	34.00	20,400.00	0.00	34.00	20,400.00	0	
8	Prepare surface and fix 50 mm x 50 mm welded mesh of 2.5 mm thick and blow cm:1.3 for 40 mm to 50 mm thick with rough course sand with grouting compound by air compressor and grouting equipment.(Refer P.No.8 Extra Work MB 1)	0.00	Sqrm	1,200.00	1,575.00	0.00	247.24	3,89,403.00	0.00	0	0.00	0.00	247.24	3,89,403.00	0.00	247.24	3,89,403.00	0.00	247.24	3,89,403.00	0.00	247.24	3,89,403.00	0	
9	Stage work for Kalasam fixing area.(Refer P.No.8 extra work MB 1) - 2 areas	0.00	No	30,250.00		0.00	1.00	30,250.00	0.00	0	0.00	0.00	1.00	30,250.00	0.00	1.00	30,250.00	0.00	1.00	30,250.00	0.00	1.00	30,250.00	0	
10	Kalasam fixing - 2 Nos.	0.00	No	10,895.00		0.00	1.00	10,895.00	0.00	0	0.00	0.00	1.00	10,895.00	0.00	1.00	10,895.00	0.00	1.00	10,895.00	0.00	1.00	10,895.00	0	
11	Crane hire charges and fabricating angular cage with 75 mm x 75 mm existing 1" pipe	0.00	No	79,678.00		0.00	1.00	79,678.00	0.00	0	0.00	0.00	1.00	79,678.00	0.00	1.00	79,678.00	0.00	1.00	79,678.00	0.00	1.00	79,678.00	0	
12	Providing scaffolding for AC duct and electrical work(Refer P.No. 9 Extra work MB1)	0.00	Sqrm	50.00	70.00	0.00	1,190.10	83,307.00	0.00	535.58	37,490.60	0.00	1,725.68	1,20,797.60	0.00	1,725.68	1,20,797.60	0.00	1,725.68	1,20,797.60	0.00	1,725.68	1,20,797.60	-37,490.60	
13	Providing and fixing eves board as design as existing flower pattern in 1" thick teak wood plank.(Refer P.No.10 extra work MB 1)	0.00	RM	2,231.00		0.00	26.80	59,790.80	35.78	79,825.18	0	0.00	62.58	1,39,615.98	0.00	62.58	1,39,615.98	0.00	62.58	1,39,615.98	0.00	62.58	1,39,615.98	0	
14	Providing and fixing anuotone board with silver wood planks all over the shuttering edges including tying with GS wire to embed in the roof concrete.(Anuotone Board supplied by client at free of cost)(Refer P.10 Extra work MB1)	0.00	Sqrm	100.00	129.00	0.00	141.18	18,212.22	0.00	0	0.00	0.00	141.18	18,212.22	0.00	141.18	18,212.22	0.00	141.18	18,212.22	0.00	141.18	18,212.22	0	
15	Supply of teak wood for Kalakshetra Foundation carpenter for Kalasam moulding (Refer P.No.11 Extra Work MB 1)	0.00	Cum	1,26,776.00		0.00	0.49	62,120.24	0.00	0	0.00	0.00	0.49	62,120.24	0.00	0.49	62,120.24	0.00	0.49	62,120.24	0.00	0.49	62,120.24	0	

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Hence, Works Committee approval is sought for

Excess operation of quantities to the tune of Rs. 12, 14,397.74 (which is over and above Rs. 53, 87,212.56 already approved) due to increase in work based on site condition for which separate statement was prepared and submitted at folio 145 to 150.

Introduction of new items to the tune of Rs. 2,92,343.40 (which is the balance over Rs. 62, 25,257.39 which is already approved the Works committee, for which separate statement was prepared and submitted at folio 141 to 144

Handwritten signature
EO

S. Ramachandran
AO 23/4/12

↓

CAO

Deputy Director

Director

Submitted for orders please

Excess operation of quantities as detailed at pg 145 to 150 amounting to Rs 12.14 lakh and execution of non-tendered items to the tune of Rs 2.92 lakh over Rs 62.25 lakh already approved by works committee as placed at Pgs 141-144 are submitted for approval. please

Kuldeep
23/4.

(B)
23/4/12

May be placed before the Works Com. 24/4

Works committee Members

Director

Deputy Director

Smt. Madhavi Mudgal

Shri.N.Murali

Shri.P.T.Krishnan

(1/0)

Now after taking in to account 8th, 9th and 10th part bills lodged by the M/s.CARD, the following deviation are noticed which are absolutely essential in executing for renovation of koothambalam as indicated in the deviated statement as verified by M/s.CARD.

The excess operation of items (which includes excess operation above 25%), under operated items, Non operated items and introduction of new items up to 10th and part bill is indicated below for approval. The justification note for such deviation as submitted by M/s.CARD may also seen at folio at 50,51, and 52a. The rate adopted for these excess operations is same as quoted in the tender for the similar items and the same was concurred by finance.

Sl. No.	Description of the works	Total expenditure	Approval already received	Approval now sought for	Paid so far	Balance to be paid	Remarks
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I.	66,01,610.30	53,87,212.56	12,14,397.74	66,01,610.30	---	
2 (a)	Under-operation of items given in Annexure II	27,06,555.12	-	--	---	---	
2 (b)	Non-operated items given in Annexure III	46,50,900.00	-	--	---	---	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV.	65,17,600.79	62,25,257.39	2,92,343.40	65,17,600.79	---	

Service tax as applicable 4.12%

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April 23, 2012

NOTE

Sub: Koothambalam - Additions, Alterations and civil works – Reg.

Ref:i) Contract No.3/ 2010-2011	Page – separate file
ii) W.O. dated June 17.7.2010	Page- separate file
iii) Agreement dated 9th July 2010	Page- separate file
iv) The works Committee note dated September 17, 2011	Page – 52, 53
v) The civil works committee earlier approval note dated December 17, 2011	Page -132-133
vi) M/s.CARD/ status report – koothambalam work note submission dated 26.03.2012	–Page 47-52a

A reference is invited to the contract and subsequent agreement entered into with M/s.CARD for a total value of Rs.2.19 crore for the above work. During the course of execution of work, M/s.CARD has requested for deviation of contract conditions in his letter dated 15.09.2011. The same was approved by the works committee on December 17, 2011 and the deviations up to 7th and part bill recommended by M/s.CARD to the contractor M/s.Chennai engineers was accepted and paid.

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132, 133

1. Excess operation quantities to the tune of Rs. 53,87,212.56 (which includes excess operation quantities above 25% to the tune of Rs.47,01,239.86 was approved by the Works Committee), works progressed up to 7th and part bill and paid to the contractor as certified and recommended by the consulting Architect M/s.CARD.
2. Approval for under operation of items given in Annexure II and non-operation of items given in Annexure III as requested by M/s.CARD
3. Introduction of new items to the tune of Rs. 62, 25,257.39 (which includes for Rs. 62, 25,257.39 (Rs.30, 21,750/-) which is already approved by the Works Committee.

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Excess operation qty & value upto 9/15/20

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Excess operation quantities alongwith financial implications of all the items given 9th & part bill												
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation												
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill		Justification
						Qty	Amount	Qty	Amount	Qty	Amount	
'(1)	'(2)	'(3)	'(4)	'(5)	'(6) = (3) x (5)	'(7) = (7-3)	'(8) = (8 x 5)	'(9) = (9-3)	'(10) = (10 x 5)	'(11) = (7-9)	'(12) = (11 x 3)	'(13)
159	CONCRETE FLOORING Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	850.00	Sqm	500.00	4,25,000.00	907.39	4,53,695.00	907.39	4,53,695.00	57.39	28,695.00	30
160	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including, preparation of surface and a coat of primer, complete : Steel surfaces with zinc chromate primer	350.00	Sqm	140.00	49,000.00	2,526.08	3,53,651.20	2,526.08	3,53,651.20	2,176.08	3,04,651.20	31
161	Paints - Walls & Ceilings											
	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening, to give an even shade.	1,000.00	Sqm	80.00	80,000.00	1,565.12	1,25,209.60	1,565.12	1,25,209.60	565.12	45,209.60	32
	error in item 121											
	Part rate items - 148 -			-300.00	-234,879.00	907.39	-272,217.00	907.39	-272,217.00			
	TOTAL				1,23,41,876.00		1,41,04,923.04		1,41,04,923.04		66,01,610.30	21909505
	Up to 9th and part bill value							1,41,04,923.04				
	a - Excess operation items value							66,01,610.30				
	b. schedule items value							75,03,312.74				

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Excess operation quantities alongwith financial implications of all the items given 9th & part bill
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

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SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 9th and part bill		Passed payment so far till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill		Justification
						Qty	Rs.	Qty	Amount	Qty	Amount	
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)=(7-3)	(8) = (8 x 5)	(9)=(9-3)	(10)=(10 x 5)	(11)=(7-9)	(12)=(11 x 3)	(13)
	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including according to concrete members with holding down bolts, fixing accessories and all incidental works complete. teakwood 2nd class CP	20.00	cum	1,50,000.00	30,00,000.00	11.40	17,10,450.00	11.40	17,10,450.00			
129	Rails and Balusters Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqm	500.00	3,12,500.00	114.12	57,060.00	114.12	57,060.00			
131	Roof tiles Providing and fixing Mangalore tiles of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	200.00	Sqm	910.00	1,82,000.00	1,016.93	9,25,406.30	1,016.93	9,25,406.30	816.93	7,43,406.30	27
132	Fixing mangalore tiles of size 400x240mm so as to cover an area of 320x210mm. The lap should be not less than 75mm. Provide for necessary mortar jointing, chasing in walls, tile cutting, tile wastage etc.	2,500.00	Sqm	350.00	8,75,000.00	995.32	3,48,362.00	995.32	3,48,362.00			
133	Providing and fixing ridge tile and 3 way connector including necessary jointing	115.00	Rm	225.00	25,875.00	346.11	77,874.75	346.11	77,874.75	231.11	51,999.75	28
134	Door & Windows wooden frames providing and fabricating and fixing in position selected quality seasoned and chemically treated wood in frames and sub frames of doors, windows, clearstory windows and tober frames, wrought to size and profile with mitred joints, including fixing to supports with threaded expansion bolts / hold fast or other fixing accessories complete 2nd class CP teak wood	2.50	cum	1,70,000.00	4,25,000.00	0.87	1,47,900.00	0.87	1,47,900.00			
137	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc., in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	200.00	Sqm	265.00	53,000.00	286.61	75,951.65	286.61	75,951.65	86.61	22,951.65	29
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with fine sand	150.00	Sqm	215.00	32,250.00	601.94	1,29,417.10	601.94	1,29,417.10	451.94	97,167.10	29
	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with coarse sand	180.00	Sqm	236.00	42,480.00	130.74	30,854.64	130.74	30,854.64			
141	Ceiling, wall acoustical tiles Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles/boards, with two coats of primer, necessary screws where required etc., complete (frame work will be paid for separately), of sizes : 12.5 mm thick Plaster of paris (gypsum anhydrous) ceiling tiles.	625.00	Sqm	300.00	1,87,500.00	190.62	57,186.00	190.62	57,186.00			
146	Concrete flooring Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps ,etc. where required, complete : 25 mm thick	225.00	Sqm	250.00	56,250.00	75.21	18,802.50	75.21	18,802.50			
148	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps ,etc. where required, complete : 40 mm thick	750.00	Sqm	350.00	2,62,500.00	322.11	1,12,738.50	322.11	1,12,738.50			

Excess operation quantities alongwith financial implications of all the items given 9th & part bill

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill		Justification
						Qty (7)=(7-3)	Amount (8)=(8 x 5)	Qty (9)=(9-3)	Amount (10)=(10 x 5)	Qty (11)=(7-9)	Amount (12)=(11 x 3)	
(1)	(2)	(3)	(4)	Rs. (5)	Rs. (6) = (3) x (5)	Qty (7)=(7-3)	Amount (8)=(8 x 5)	Qty (9)=(9-3)	Amount (10)=(10 x 5)	Qty (11)=(7-9)	Amount (12)=(11 x 3)	(13)
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	85.00	Cum	4,250.00	3,61,250.00	188.95	8,03,037.50	188.95	8,03,037.50	103.95	4,41,787.50	21
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	46.58	2,04,952.00	46.58	2,04,952.00			
115	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below GL	30.00	Cum	4,250.00	1,27,500.00	40.29	1,71,232.50	40.29	1,71,232.50	10.29	43,732.50	22
116	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level.	125.00	Sqm	680.00	85,000.00	66.98	45,546.40	66.98	45,546.40			
119	Random rubble masonry Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	75.00	Cum	2,600.00	1,95,000.00	36.71	95,446.00	36.71	95,446.00			
120	Metal work BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	8,394.25	9,40,156.00	8,394.25	9,40,156.00	5,894.25	6,60,156.00	23
121	enamel paint on steel surfaces, complete, on duly prepared surfaces, complete.	225.00	Sqm	110.00	24,750.00	281.25	30,937.50	281.25	30,937.50	56.25	6,187.50	24
122	Steel stair Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	11,704.30	15,21,559.00	11,704.30	15,21,559.00	11,504.30	14,95,559.00	25
125	Bird Mesh Refrabricating with existing framework worth additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.	375.00	Kg	125.00	46,875.00	2,760.00	3,45,000.00	2,760.00	3,45,000.00	2,385.00	2,98,125.00	26
126	Wood work Wood Framing Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqm	3,500.00	7,87,500.00	190.62	6,67,170.00	190.62	6,67,170.00			

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Excess operation quantities alongwith financial implications of all the items given 9th & part bill
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

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SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill		Justification
						Qty	Rs.	Qty	Amount	Qty	Amount	
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7) = (7-3)	(8) = (8 x 5)	(9) = (9-3)	(10) = (10 x 5)	(11) = (7-9)	(12) = (11 x 3)	(13)
56	Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS6313 (Part I). (Plinth area of the building at ground level shall only be measured); Using Chloropyriphos Emulsifiable concentrate 0.2%.	1,150.00	Sqm	60.00	69,000.00	1,179.52	70,771.20	1,179.52	70,771.20	29.52	1,771.20	16
	Concrete Formwork and Accessories											
	Form Work/Centering and shuttering											
	Forms in Place											
92	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolt / spring coil / plastic cone, wedging, casing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqm	300.00	10,500.00	433.17	1,29,951.00	433.17	1,29,951.00	398.17	1,19,451.00	17
	Reinforcement steel											
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge; annealed steel wire, complete, of grade : Fe-415	15.00	Tonne	55,000.00	8,25,000.00	9.29	5,10,785.00	9.29	5,10,785.00			
	Plain cement concrete											
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	41.85	1,46,475.00	41.85	1,46,475.00	1.85	6,475.00	18
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	10.93	38,255.00	10.93	38,255.00			
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	176.88	6,54,456.00	176.88	6,54,456.00	161.88	5,98,956.00	19
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	115.55	4,27,535.00	115.55	4,27,535.00	58.55	2,16,635.00	20
	Structural Coconcrete - RCC											
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	14.38	64,710.00	14.38	64,710.00			
	Precast - Fins/louvers											
109	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below G.L.	33.50	Cum	10,000.00	3,35,000.00	8.13	81,330.00	8.13	81,330.00			
110	Masonry - Brickwork, conventional bricks											

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Excess operation quantities alongwith financial implications of all the items given 9th & part bill													
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation													
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount		Bill claimed by M/s.CARD in 9th and part bill		Passed payment so far till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill		Justification
					Rs.	(6) = (3) x (5)	Qty	Amount	Qty	Amount	Qty	Amount	
(1)	(2)	(3)	(4)	(5)	(6)	(7) = (7-3)	(8) = (8 x 5)	(9) = (9-3)	(10) = (10 x 5)	(11) = (7-9)	(12) = (11 x 3)	(13)	
26	Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia. upto 80 mm	30.00	m	20.00	600.00	1,080.00	21,600.00	1,080.00	21,600.00	1,050.00	21,000.00	10	
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	10.00	5,000.00	10.00	5,000.00				
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above G.L.) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	32.00	32,000.00	32.00	32,000.00	20.00	20,000.00	11	
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100sqm	1,100.00	66,000.00	20.00	22,000.00	20.00	22,000.00				
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	481.73	67,442.20	481.73	67,442.20	156.73	21,942.20	12	
44	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	111.07	13,328.40	111.07	13,328.40				
45	Supplying and stacking good earth, free from organics impurities.	825.00	Cum	350.00	2,88,750.00	1,194.81	4,18,183.50	1,194.81	4,18,183.50	369.81	1,29,433.50	13	
46	Bulk Excavation												
46	Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00	27,500.00	692.54	1,73,135.00	692.54	1,73,135.00	582.54	1,45,635.00	14	
48	Add for every additional lift of 1.5 m or part thereof in: All types of Fill	50.00	Cum	35.00	1,750.00	108.13	3,784.55	108.13	3,784.55	58.13	2,034.55	15	
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench 450 mm)	230.00	m	150.00	34,500.00	65.55	9,832.50	65.55	9,832.50				
	Termite - Pre treatment												

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Excess operation quantities alongwith financial implications of all the items given in 9th & part bill
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 9th and part bill		Passed payment sofar till 9th and part bill		Excess operation qty and value claimed up to 9th and part bill	Justification	
						Qty	Amount	Qty	Amount			Qty
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7) = (7.3)	(8) = (8 x 5)	(9) = (9.3)	(10) = (10 x 5)	(11) = (7.9)	(12) = (11 x 3)	(13)
SITE PREPARATION												
Site Demolition												
External services												
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.00	6,000.00	6.00	6,000.00	1.00	1,000.00	1
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	155.00	Sqm	160.00	24,800.00	121.38	19,420.80	121.38	19,420.80			
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqm	450.00	22,500.00	156.01	70,204.50	156.01	70,204.50	106.01	47,704.50	2
Selective demolition												
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	227.52	2,84,400.00	227.52	2,84,400.00	107.52	1,34,400.00	3
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	79.15	1,97,875.00	79.15	1,97,875.00			
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposal of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	185.19	2,22,228.00	185.19	2,22,228.00	103.19	1,23,828.00	4
Door / window demolition												
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: upto 3 sqm	34.00	Ea.	750.00	25,500.00	34.00	25,500.00	34.00	25,500.00			
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhats, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: over 3 sqm	4.00	Ea.	1,000.00	4,000.00	8.00	8,000.00	8.00	8,000.00	4.00	4,000.00	5
19	Dismantling expanded metal or IRC fabrics along with battens and headings including stacking the serviceable materials within a 50 m lead.	375.00	Sqm	215.00	80,625.00	454.00	97,610.00	454.00	97,610.00	79.00	16,985.00	6
Flooring demolition												
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqm	225.00	2,02,500.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,385.11	3,11,649.75	7
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	450.00	Sqm	250.00	1,12,500.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,738.79	4,34,697.50	8
Framing demolition												
23	Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	50.00	m	800.00	40,000.00	55.48	44,384.00	55.48	44,384.00	5.48	4,384.00	9
Partitions Demolition												
Rain water Pipes demolition												

Sl.No	Name of contract	Tendered Value	Excess operated items	New items	Revised value	% - (E)			Proposed items available for execution in the tender items (Excess operation items)	Proposed New items not in the tender (New items)	Proposed introduction of New works to be placed for approval	So proposed Revised Value	%	Under operated items proposed	Non-Operated proposed	Revised value as on date including	%	% of Non operated on tendered value
						(D)/(A)	(B)/(A)	(C)/(A)										
		(A)	(B)	(C)	(D)=(A)+(B)+⊕	(D)/(A)	(B)/(A)	(C)/(A)	(F)	(F-1)	(F-2)	(G)=(F)+(F-1)+(F-2)+⊕	(H)=(G)/(A)	(I-1)	(I)	(J)=(G)-(I+I1)	(K)=(J)/(A)	(L)=(I)+(I1)/(A)
1	works	2,19,09,505.00	66,02,444.00	76,96,778.00	3,62,08,727.00	65.3%	30.1%	35.1%	19,72,750.00	18,77,042.00	1,56,34,170.00	5,56,92,689.00	154.2%	35,18,346.00	80,13,950.00	4,41,60,393.00	101.6%	52.6%
2	Roof insulation board fixing work	55,11,697.00																
a	Anutone board supply	22,40,000.00	0.00	0.00	22,40,000.00	0.0%	0.0%	0.0%	0.00	2,00,000.00	0.00	24,40,000.00	8.9%	0.00	0.00	24,40,000.00	8.9%	0.0%
b	Anutone board fixing Labour charges	32,71,750.00	1,94,026.00	0.00	34,65,776.00	5.9%	5.9%	0.0%	0.00	0.00	0.00	34,65,776.00	5.9%	4,22,252.00	0.00	30,43,524.00	-7.0%	12.9%
3	HVAC tender (works)	1,18,00,000.00	0.00	0.00	1,18,00,000.00	0.0%	0.0%	0.0%	10,19,842.00	0.00	0.00	1,28,19,842.00	8.6%	3,62,807.00	1,08,523.09	1,23,48,511.91	4.6%	4.0%
4	Floor cooling (Slab cooling)	12,97,450.00	0.00	0.00	12,97,450.00	0.0%	0.0%	0.0%	0.00	0.00	0.00	12,97,450.00	0%	0.00	0.00	12,97,450.00	0.0%	0.0%
5	Electrical works	49,08,773.00	14,170.00	6,73,177.00	55,96,120.00	14.0%	0.3%	13.7%	2,84,000.00	2,04,843.00	0.00	60,84,963.00	24%	0.00	0.00	60,84,963.00	24.0%	0.0%
	Total	5,09,39,175.00	68,10,640.00	83,69,955.00	6,06,08,073.00	85.2%	36.4%	48.8%	32,76,592.00	22,81,885.00	1,56,34,170.00	8,18,00,720.00	202%	43,03,405.00	81,22,473.09	6,93,74,841.91	132.1%	69.5%

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

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77	No	6	19000.00	114000.00				
	No	4		5000.00	20000.00			
					1021539.27			
							1021539.27	
								21,909,505.000
							6225257.39	28.414%

Constructing circular type manhole with class 75 bricks in cement mortar 1:4 with coarse sand, inside plaster 12 mm thick with cement mortar 1:3 with coarse sand, finished with a floating coat of neat cement, foundation concrete 1:3:6 with coarse sand, 150 mm thick cement concrete 1:2:4 on top of masonry including centering, shuttering, making necessary channel in 150 mm thick cement concrete 1:2:4 finished with a floating coat of neat cement, complete, but excluding cost of foot rest and outside plaster, excavation and back filling, complete, of internal size : Add for depth over 910 mm and upto 1670 mm for circular manhole 910 mm dia at bottom and 560 mm dia at top

Providing L.S.For doors

Total Amount

Grand total

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

136	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc., in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	Sqm	63.00	265.00	16695.00	
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixes : 1:6 with coarse sand	Sqm	51.26	236.00	12097.36	
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including anncoring to concrete members wit	Cu.m	2.50	150000.00	375000.00	
131	Providing and fixing Mangalore files of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	Sqm	50.00	910.00	45500.00	
159	Providing and fixing Eaves board as per ex.design in 1" thick teak wood.	Rmts	36.00	2231.00	80316.00	
	Painting	Sqm	9.00	130.00	1170.00	
	Flooring					
	Johnson flooring tile of size 300x300mm	Sqm	16.25	1100.00	17875.00	
	Johnson -Wall files of size-300mm x 400mm	Sqm	63.78	1150.00	73343.55	
	Sanitary Fixtures	L.S			50,000.00	
	Add provisional amount for plumbing works(External piping)	L.S			100,000.00	

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	Cu.m	182.36	140.00	25530.40	
110	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above Gl)	Cu.m	12.42	4250.00	52785.00	
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centring, shuttering and reinforcement, 1:2:4 nominal mix : in foundation and plinth (1.5 m below and upto 1.2 m above G.L.) -RCC:1:1.5:3	Cum	4.05	4500.00	18225.00	
	Additional cost of cement	260/BAG	4.05	551.20	2232.36	
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	Ton	0.50	55000.00	27500.00	
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	Cum	4.00	3700.00	14800.00	

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Introduction of all new items alongwith quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

56	Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II). (Plinth area of the building at ground level shall only be measured); Using Chloropyrifos Emulsifiable concentrate 0.2%.	Sqm	72	60.00	4320.00		
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curring etc., complete, of nominal mix : 1:4:8	Cu.m	14.4	3500.00	50400.00		
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths. (1.5 m below and upto 1.2 above G.L)	Cu.m	17.64	2600.00	45864.00		

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Introduction of all new items alongwith quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

Tender Item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification	
	Gunitting-Prepare surface and fix 50mm x 50mm welded mesh of 2.5mm thick rough course sand with grouting compound by air compressor and gunitting equipment.	Sqm	247	1575.00		389025.00	For basement floor.	
Total Amount							389,025.00	389025.00
B	New works which are in progress and need post facto approval							
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification	
	Wood Bird screens-Wood works							
	Wooden louver-Single side-GF	Cum	1.00	150000.00		150000.00		
	Wooden louver-Single side-FF	Cum	1.00	150000.00		150000.00		
	Extra for Labour & Scaffolding-GF & FF	Cum	2	22000.00		44000.00		
Total Amount							344,000.00	344000.00
B	New works which are in progress and need post facto approval							
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification	
	Green room toilet all works.							
	Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	Cu.m	108	250.00		27000.00		
46	Add for every additional lift of 1.5 m or part thereof in: All types of soil.	Cu.m	93.6	35.00		3276.00		

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Introduction of all new items alongwith quantities and proposed rate given - Annexure IV
Name of the work : Additions, alteration and civil work - Koothambalam

B		New works which are in progress and need post facto approval								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification		
119		Steel platform,safety parttion and stairs	kg	1000	112.00		112000.00	For Maintenance purpose.		
		Steel platform,Safety partition etc.,								
		BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.								
		Safety partition		72.97	125.00		9120.94	For safety		
122		Mesh		636.48	125.00		79560.00			
		Frame work								
		Refabricating with existing framework with additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gaps.								
		Stairs	kg	1250	125.00		156250.00			
		Total Amount					356,930.94		356930.94	
B		New works which are in progress and need post facto approval								
KALAKSHETRA FOUNDATION-Koothambalam										
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification		
	1	Wood louvers-Stage area	Cu.m	0.6	150000.00		90000.00			
		Wood louver-Single side	Cum	0.6		22000.00	13200.00			
		Extra laobur and scaffolding								
	2	Wood louver-Double side	Cu.m	2	150000.00		300000.00	To prevent bird entry.		
		Extra laobur and scaffolding		2.00		24000.00	48000.00			
		Total Amount					451,200.00		451200.00	
B		New works which are in progress and need post facto approval								
KALAKSHETRA FOUNDATION-Koothambalam										
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification		
		Misc.works like Gunifing								

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Introduction of all new items along with quantities and proposed rate given - Annexure IV
Name of the work : Additions, alteration and civil work - Koothambalam

Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
		Wood louvres,railings & screens.	Cu.m	2	150000.00		300000.00	
		Total Amount					300000.00	
	B	New works which are in progress and need post facto approval						
KALAKSHETRA FOUNDATION-Koothambalam								
Tender item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
	3.3	Supports for Idols-(49 Statues) Providing M.S.Angle support with wood base for the statues.	L.S				75000.00	statues providing base.
		Total Amount					75000.00	
	B	New works which are in progress and need post facto approval						
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
	3.5	Wood Bird Screen louvers.		4	150000.00		600000.00	To prevent bird entry.
		Wood Bird Screens-Single side and Double side. Extra labour and Scaffolding and fixing works.		4		22500.00	90000.00	
		Total Amount					690,000.00	
	B	New works which are in progress and need post facto approval						
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
119		Steel works above stage & FOH. Steel works at stage area.	kg	2500	112.00		280000.00	For Modern stage lighting
		BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.						For light truss and speaker support works.
		Supports for motor at stage area and For FOH in Auditorium area.	kg	1750	112.00		196000.00	
		Painting-Stage For FOH	Sqm	150	110.00		16500.00	
			Sqm	50	110.00		5500.00	
		Total Amount					498,000.00	

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no to reviewed

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

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Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
1.12		Traditional roof hump(Wood)-North entrance						
126		Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including anoring to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2nd class CP teakwood	Cum	1.00	150,000.00		150000.00	North entrance - Statue wood work.
Total Amount							150000.00	150000.00
B New works which are in progress and need post facto approval								
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
148		Dressed stone in Auditorium area. Providing and laying 100 mm thick Dressing stone in Auditorium ramp area.	Sqm	32.00	2500		80000.00	
Total Amount							80000.00	80000.00
B New works which are in progress and need post facto approval								
KALAKSHETRA FOUNDATION-Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
148		Red oxide flooring. Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	Sqm	611.00	500		305500.00	
		Red oxide flooring-Polishing and finishing	Sqm	611.00	350		213850.00	
Total Amount							519350.00	519350.00
B New works which are in progress and need post facto approval								
KALAKSHETRA FOUNDATION-Koothambalam								

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

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2018

Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
14		Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead		16.58	1,200.00		19896.00	
		CD Room		25.47	1,200.00		30564.00	
		Canteen		12.97	1,200.00		15564.00	
		Toilet		55.02			66024.00	
		Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm .(Cd room, Toilet and Canteen)		55.29	250.00		13822.50	
		CD Room		34.29	250.00		8572.50	
		Canteen		46.80	250.00		11700.00	
		Toilet						
		Total Amount					216511.50	216511.50
B		New works which are in progress and need post facto approval						
KALAKSHETRA FOUNDATION- Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
1.11		Athistana works						
		Providing and making mouldings, cornices & corbels with bricks of class 75 in cement mortar 1:4 with coarse sand (girth to be measured in mm and length in running metres)	100mm/ m	138.82	350.00		48587.00	Koothambalam proposed Athistana works.
114		Additional cost for Brick work for Athistanaam	Mts	138.82		4300.00	596926.00	
		Total Amount					645513.00	645513.00
B		New works which are in progress and need post facto approval						
KALAKSHETRA FOUNDATION- Koothambalam								
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification

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Introduction of all new items alongwith quantities and proposed life given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Justification
		Small		1		500.00	500.00	at Main entrance.
	h.	Fixing of Iyaravatham Statue around the Koothambalam.		8		3,500.00	28000.00	Fixing of new statues.
	j.	Fixing of Sarbam statue at roof edge level		8		2,500.00	20000.00	Fixing of new statues.
	k.	Fixing of statues at balcony beam level (cd)		49		1,500.00	73500.00	Fixing of new statues.
		Total Amount					262823.00	262823.00
	B	New works which are in progress and need post facto approval		0				
KALAKSHETRA FOUNDATION-Koothambalam								
		Demolishing						
11		Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.						
		CD Room		11.05	1,250.00		13812.50	
		Canteen		6.86	1,250.00		8575.00	
		Toilet		4.32	1,250.00		5400.00	
				22.23			27787.50	
12		Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead. (Cd room, Toilet and Canteen)						Demolishing of Ex.toilet,Canteen and CD room for landscape works.
		CD Room		28.88	2,500.00		72200.00	
		Canteen		2.38	2,500.00		5950.00	
		Toilet		17.82	2,500.00		44550.00	
				49.08			122700.00	

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Introduction of all new items along with quantities and proposed rate given - Annexure IV

Name of the work : Additions, alteration and civil work - Koothambalam

B		New works which are in progress and need post facto approval							
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Grand total	Justification
	1.3	Valley works							
	a.	Providing and fixing teak wood gutter in valley area for the roof in 1" thick plank including nailing all etc.,	Sqm	36.09		4652.00	167890.68		
	b.	Providing and fixing GI Sheet gutter with Multiplast around and fixing in position.	Sqm	30.9		1875.00 1860.00	57474.00		Ex-Damaged gutter replaced with new Burma teak wood.
		Total Amount					225364.68	225364.68	
B		New works which are in progress and need post facto approval							
		KALAKSHETRA FOUNDATION-Koothambalam							
Tender Item no.	New item no.	Description	Unit	Qty	Tender rate	Proposed rate	Amount	Grand total	Justification
	1.2	Kalasams removal repair and refix(Statues)							
	a.	Removing & handing over kalasams-Big	No	2		3000.00	6000.00		North entrance, Centre and rear kalasam removed to repaint.
	b.	Removing & handing over kalasams-Small	No	1		2000.00	2000.00		
	c.	Stage work-For Kalasam fixing area				L.S	30250.00		Provided for Kalasam puja.
	d.	Kalasam fixing				L.S	10895.00		Refixing of Centre and rear kalasam.
	e.	Kalasam fixing work at North entrance				L.S	10000.00		To refix North entrance Kalasam.
	f.	Crane hire charges and fabricating angular cage with 75mm x 75mm and existing 1" pipe, and cage-(Rs.79678.00)				L.S	79678.00		Provided for Kalasam puja.
	g.	Fixing of yazhi(Yazhi supplied by client)							
	h.	Big		2		1,000.00	2000.00		Fixing of statues

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P 66/6
P 65/2
P 64/2
P 63/2
500/-
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P 63/2
P 62/2

Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
(1)	(2)	(3)	(4)	Rs. (5)	Rs. (6) = (3) x (5)	(7)
	Finishes					
	Gypsum plaster					
	Cement plaster					
140	Forming 15 mm deep grooves of uniform size in the top layer of washed stone grit plaster in pattern using wooden battens/aluminium channels, nailed to the under layer including removal of wooden battens/aluminium channels, repair to the edges of panels and finishing the groove complete in cement mortar 1:2 (1 cement : 2 silica sand) admixed with colour pigment, of groove widths : 10 mm	160.00	m	50.00	8,000.00	
	Ceiling, wall acoustical tiles					
	Brick flooring					
144	Providing and laying brick on edge flooring with bricks of class 75 including preparation of sub-base/surface, dressing of ground, if any, to required profiles, cement slurry, etc., complete, in cement mortar using coarse sand, of mix : 1:4	160.00	Sqm	700.00	1,12,000.00	
145	FLOORING Add for brick flooring laid diagonal herring bone bond or other pattern.	160.00	Sqm	750.00	1,20,000.00	
146	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps ,etc. where required, complete : 25 mm thick	225.00	Sqm	250.00	56,250.00	
	Terrazzo flooring					
151	Providing and laying in situ terrazzo floor in pattern and profile under layer cement concrete 1:2:4 and top layer with colour marble chips in one or more shade laid in cement in proportion 1:2 (1 cement : 2 marble chips by volume), laid in panels /narrow strips (dividing strips to be placed in floor shall be paid separately), cured, rubbed, polished and finished, complete, for : 50 mm thick flooring with under layer 38 mm thick and top layer 12 mm thick : Floor pavings, window sills, copings Medium shade pigment with 50% white and 50% ordinary grey cement	250.00	Sqm	700.00	1,75,000.00	
	Stone flooring					
	Wooden Flooring					
	Paints - Wood and metal surfaces					
	Paints - Walls & Ceilings					
	Total				46,50,900.00	21909505
	TOTAL				46,50,900.00	21.23%

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Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
				Rs.	Rs.	
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)
97	Providing and fixing hard wood, planed plank shuttering, tongued and grooved, for exposed concrete surfaces, including strutting, propping, bracing, bolting, wedging, casing, striking, removal etc. complete. Allow for forming drips, throats, grooves, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Soffits and sides of waist slabs of stairs, sides of risers and stepped waist slabs, spiral staircases, etc.	8.00	Sqm	400.00	3,200.00	
99	Providing and fixing wedge expansion type hold / dash fasteners on CC / RCC surface backing including drilling necessary holes and the cost of bolts etc, complete : Fastener with threaded dia. 10 mm	150.00	Ea.	75.00	11,250.00	
	Plain cement concrete					
	Structural Cooncrete - RCC					
	Structural Cooncrete - RCC					
106	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centring, shuttering and reinforcement, 1:2:4 nominal mix : From plinth level to 7.0 m below GL in basement	5.00	Cum	4,700.00	23,500.00	
107	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centring, shuttering and reinforcement, 1:2:4 nominal mix : From plinth level upto 20.0 m above in superstructure	125.00	Cum	4,850.00	6,06,250.00	
	Total					
	Masonry - Brickwork, conventional bricks					
117	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Superstructures, upto 20.0 m above plinth level	45.00	Cum	2,950.00	1,32,750.00	
118	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Basements and the like upto 7.0 m below GL	170.00	Cum	2,750.00	4,67,500.00	
	Total					
	Metal work					
	Wood work					
127	Providing and fixing wooden hand rail made out of 55 mm x 75 mm timber and fixed to existing MS plate with S/S screws, etc. complete : 1st class Burma teak wood	110.00	m	1,500.00	1,65,000.00	
	Total					
	Damp & Waterproofing, Thermal protection					

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Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SN ^o	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
				Rs.	Rs.	
		(3)	(4)	(5)	(6) = (3) x (5)	(7)
88	Preparation of subgrade by excavating or filling with available earth to an average of 225 mm depth, dressing to camber, watering and consolidating with road roller of 8-10 t capacity including making good the undulations etc. and disposal of surplus earth / bringing earth from borrow pits within a lead of 50 m, complete.	15.00	100sm	5,500.00	82,500.00	
89	Consolidation of sub-grade with road roller of 8 to 10t capacity including making good the undulations, etc. with earth or quarry spoils, etc. and rerolling the sub-grade, complete.	15.00	100sm	3,000.00	45,000.00	
90	Add for compaction of earth work in embankment under optimum moisture conditions to give at least 95% of the maximum dry density (Proctor density)	10.00	100cm	2,000.00	20,000.00	
91	Providing and laying M-20 grade precast concrete kerb stones including setting in cement mortar 1:4 with coarse sand and pointing of joints with same mortars, etc. complete of size : 300 x 300 x 150 mm thick	160.00	m	450.00	72,000.00	
	Total					
	Concrete Formwork and Accessories					
	Form Work/Centering and shuttering					
	Forms in Place					
94	Providing and fixing hard wood, planed plank shuttering, tongued and grooved, for exposed concrete surfaces, including strutting, propping, bracing, bolting, wedging, easing, striking, removal etc. complete. Allow for forming drips, throats, grooves, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of columns, piers of any shape, size and profile.	10.00	Sqm	300.00	3,000.00	
95	Providing and fixing hard wood, planed plank shuttering, tongued and grooved, for exposed concrete surfaces, including strutting, propping, bracing, bolting, wedging, easing, striking, removal etc. complete. Allow for forming drips, throats, grooves, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Soffits and sides of beams, plinth beams, lintels, ties, ribs, pergolas and such other, string courses, cornices, corbels.	10.00	Sqm	300.00	3,000.00	
96	Providing and fixing hard wood, planed plank shuttering, tongued and grooved, for exposed concrete surfaces, including strutting, propping, bracing, bolting, wedging, easing, striking, removal etc. complete. Allow for forming drips, throats, grooves, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Soffits and sides of suspended slabs, floor and roof projections, landing slabs, canopies, chajjas, slabs of planting boxes and such other horizontal elements, coffer ribs and slabs.	20.00	Sqm	400.00	8,000.00	

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Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SN/No	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
				Rs.	Rs.	
(1)		(3)	(4)	(5)	(6) = (3) x (5)	(7)
58	Providing, laying, jointing and testing double flanged ductile iron pipes having screwed flanges, conforming to IS:8329, including compressed neoprene washers, galvanised steel fasteners, complete, excluding trenching and back filling, of nominal dia.: 100 mm	40.00	m	1,200.00	48,000.00	
	Piping - Drainage & Sewerage					
	Piping - Drainage & Sewerage					
67	Providing, laying, jointing and testing of glazed stone ware pipes, conforming to IS:651 grade A, and jointing with cement mortar 1:1 with fine sand and tarred gasket of hemp yarn soaked in thick cement slurry, complete, excluding trenching and back filling, of nominal dia.: 100 mm	50.00	m	310.00	15,500.00	
68	Providing, laying, jointing and testing of glazed stone ware pipes, conforming to IS:651 grade A, and jointing with cement mortar 1:1 with fine sand and tarred gasket of hemp yarn soaked in thick cement slurry, complete, excluding trenching and back filling, of nominal dia.: 150 mm	20.00	m	400.00	8,000.00	
70	Providing and laying cement concrete 1:5:10 with coarse sand, 150 mm thick all around RCC/ SW pipes including bed concrete, necessary shuttering and curing, complete, for pipes of nominal dia.: 150 mm	10.00	m	330.00	3,300.00	
	Catch basins or Manholes					
74	Constructing road gully chambers 450 x 500 x 600 mm deep inside, in one brick thick brick work with bricks of class 75 in cement mortar 1:5 in fine sand, including fixing horizontal grating with frame of size 450 x 500 mm in 150 mm thick cement concrete 1:2:4, foundation concrete 1:5:10, with coarse sand 150 mm thick, inside plaster 12 mm thick with cement mortar 1:3, finished with a floating coat of neat cement, excavation and back filling, complete, with : CI gratings weighing 90 kg.	30.00	Ea.	5,000.00	1,50,000.00	
75	Constructing road gully chambers 450 x 450 x 775 mm deep inside, in one brick thick brick work with bricks of class 75 in cement mortar 1:5 with fine sand, including fixing 450 x 100mm vertical grating, top RCC slab 75 mm thick in 1:2:4 mix, foundation concrete 150 mm thick in 1:5:10, with coarse sand, inside plaster 12 mm thick with cement mortar 1:3 finished with a floating coat of neat cement, excavation and back filling, complete, with : CI gratings weighing 15.0 kg	12.00	Ea.	6,500.00	78,000.00	
83	CATCH BASINS OR MANHOLES Providing manhole covers with frames and fixing the same during laying of cement concrete / reinforced cement concrete 1:2:4 mix on top of brick work / in slab, complete, of shape and duty : Circular, Medium duty 500 mm dia. (Grade designation MD 10)	3.00	Ea.	2,000.00	6,000.00	
84	Providing and fixing foot rests in manholes embedded in 230 x 200 x 100 mm cement concrete blocks 1:3:6 with coarse sand, complete, of: CI weight 4.5 kg	15.00	Ea.	350.00	5,250.00	
85	Constructing 300 mm inside drain width with 230 mm thick brickwork with bricks of class 75 in cement mortar 1:4 with coarse sand over raft or CC base, 25 mm thick CC 1:2:4 at bottom and in filling haunches including 12 mm thick cement plaster 1:3 with coarse sand finished with floating coat of neat cement inside and on exposed surface for drain of average depth : 100 mm	25.00	m	2,100.00	52,500.00	

Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
				Rs.	Rs.	
		(3)	(4)	(5)	(6) = (3) x (5)	(7)
29	Dismantling CI / GS / PVC / Asbestos rain water pipes embedded in concrete / brick work with fittings and clamps including dismantling of concrete/brick work etc., stacking the serviceable material and disposal of unserviceable materials up to 50 m lead, of dia: over 150 mm	15.00	m	50.00	750.00	
30	Clearing jungle including uprooting of rank vegetation, grass, brush wood, trees and saplings of girth upto 300 mm (measured at a height of 1.0 m above GL) and removal of rubbish up to a distance of 50 m outside the periphery of the area cleared, complete.	50.00	100sm	1,000.00	50,000.00	
33	Clearing grass and removal of the rubbish upto a distance of 50 m outside the periphery of the area cleared, complete.	20.00	100sm	1,100.00	22,000.00	
	Dewatering					
35	Pumping out water caused by spring, tidal or river seepage, broken water mains or drains and the like.	30.00	kltr	200.00	6,000.00	
	Excavation - Close and open timbering					
36	Providing and fixing close timbering including strutting, shoring and packing cavities (wherever required) complete (Measurement to be taken of the face area timbered), Depth not exceeding 1.5 m : in trenches etc.	35.00	Sqm	30.00	1,050.00	
37	Providing and fixing close timbering including strutting, shoring and packing cavities (wherever required) complete (Measurement to be taken of the face area timbered), Depth not exceeding 1.5 m : in shafts, wells, cesspits, manholes and the like	40.00	Sqm	30.00	1,200.00	
38	Add for every 1 m or part thereof of additional depth over an initial depth of 1.5 m, for close timbering : in trenches etc.	30.00	Sqm	40.00	1,200.00	
39	Add for every 1 m or part thereof of additional depth over an initial depth of 1.5 m, for close timbering : in shafts, wells, cesspits, man-holes and the like	10.00	Sqm	40.00	400.00	
	Topsoil					
40	Earth work in surface excavation not exceeding 300 mm in depth but exceeding 1.5 m in width as well as 10 sqm on plan, in all types of soil including disposal of excavated earth up to 50 m and lift up to 1.5 m, disposed soil to be leveled and neatly dressed, complete.	225.00	100sm	2,100.00	4,72,500.00	
	Back fill					
	Bulk Excavation					
50	Providing clean fine sand fill under floors, pavings and similar locations, laid to required depth, compacted by flooding with water, finished to proper levels, complete.	750.00	Cum	1,186.00	8,89,500.00	
	Trench					
55	Excavation and Fill EXCAVATING, UTILITY TRENCH Excavating holes up to 0.5 cum including getting out the excavated material, then returning the soil as required in layers not exceeding 200 mm in depth, including consolidating each deposited layer by ramming, watering etc., disposing of surplus excavated material, as directed, within a lead of 50 m and lift upto 1.5 m, complete : All types of soil	80.00	Ea.	200.00	16,000.00	
57	Providing, laying, jointing and testing double flanged ductile iron pipes having screwed flanges, conforming to IS:8329, including compressed neoprene washers, galvanised steel fasteners, complete, excluding trenching and back filling, of nominal dia.: 80 mm	205.00	m	1,000.00	2,05,000.00	

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Non operated items -Annexure III

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
				Rs.	Rs.	
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)
	SITE PREPARATION					
	Site Demolition					
	External services					
1	Dismantling old CI pipes including excavation, removal of pipes, refilling trenches, breaking lead caulked joints, melting of lead and making lead blocks, stacking and handing over to owner pipes & lead at site, and disposal of unserviceable materials within a lead of 50 m, complete, of nominal di : 80 mm	80.00	m	35.00	2,800.00	
2	Dismantling of manholes including RCC top slabs, CI/SFRC covers with frames, including stacking of useful materials and disposal of unserviceable materials within a lead of 50 m, complete, of shape and size : Rectangular, 900 x 800 x 450 mm deep	12.00	Ea.	750.00	9,000.00	
3	Add for dismantling additional depth of : Circular manholes, 1220 mm dia, for depth beyond 1680 mm	5.00	m	1,500.00	7,500.00	
4	Add for dismantling additional depth of : Rectangular manholes, 900 x 800 mm, for depth beyond 450 mm	5.00	m	1,000.00	5,000.00	
6	Dismantling galvanised steel pipes (external work) including excavation and refilling trenches after taking out the pipes, including stacking of pipes within a 50 m lead, of nominal bores: 15 mm to 40 mm	30.00	m	50.00	1,500.00	
7	Dismantling of road including taking out soling, metalling etc, stacking of serviceable materials and disposal of unserviceable materials within a lead of 50 m : Water bound	270.00	Cum	1,060.00	2,86,200.00	
8	EXTERNAL SERVICES DEMOLITION Dismantling of dry stone pitching including stacking of serviceable materials and disposal of unserviceable materials within a lead of 50 m.	50.00	Cum	1,060.00	53,000.00	
	Ceiling Demolition					
16	Dismantling false ceiling, partitions, wall lining, etc supported / fixed to wooden / aluminium / metal frame including dismantling of frame, stacking of serviceable material and disposal of unserviceable material upto a 50 m lead, with : Wooden planks	10.00	Sqm	275.00	2,750.00	
	Door / window demolition					
	Flooring demolition					
22	Dismantling dry brick pitching in floors, drains etc, including stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead.	75.00	Sqm	200.00	15,000.00	
	Framing demolition					
24	Dismantling steel work in built up sections at all heights and depths, in angles, tees, flats, channels and tubes including all gusset plates, bolts, nuts, cutting rivets, welding etc. including dismembering and stacking within 50 m lead.	20.00	Qtd	5,000.00	1,00,000.00	
25	Dismantling aluminum partitions, doors, windows, fixed glazing and false ceiling and gypsum partitions / false ceiling including stacking of serviceable materials and disposal of unserviceable materials upto a 50 m lead.	100.00	Sqm	200.00	20,000.00	
27	RAIN WATER PIPES DEMOLITION Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia: over 80 mm and upto 150 mm	45.00	m	40.00	1,800.00	

Under operation of items - Annexure II

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation						
SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
124	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wood work in frames of false ceilings, partitions, etc., complete : 2nd class Deodar wood.	2.00	Cum	1,10,000.00	2,20,000.00	
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including ancoring to concrete members with holding down bolts, fixing accessories and all incidental works complete. CP teakwood	5.00	cum	1,50,000.00	7,50,000.00	
	Total					
	<u>Damp & Waterproofing, Thermal protection</u>					
	<u>Damp proof course</u>					
132	Fixing mangalore tiles of size 400x240mm so as to cover an area of 320x210mm. Te lap should be not less than 75mm. Provide for necessary mortar jointing, chasing in walls, tile cutting, tile wastage etc.	1,054.68	Sqm	350.00	3,69,138.00	
	<u>Wall and ceiling insulation</u>					
	<u>Roof tiles</u>					
	<u>Doors and Windows</u>					
	<u>Wooden frames</u>					
	<u>Finishes</u>					
	<u>Gypsum plaster</u>					
	<u>Cement plaster</u>					
	<u>Ceiling, wall acoustical tiles</u>					
	<u>Brick flooring</u>					
147	Providing and laying cement concrete flooring 1:2:4, finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations, including nosing of steps ,etc. where required, complete : 40 mm thick	575.00	Sqm	350.00	2,01,250.00	
	<u>Terrazzo flooring</u>					
	<u>Stone flooring</u>					
	<u>Wooden Flooring</u>					
	<u>Paints - Wood and metal surfaces</u>					
	<u>Paints - Walls & Ceilings</u>					
	Total				27,06,555.12	21909505
	TOTAL					12.353%

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Under operation of items - Annexure II
Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

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SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
98	Providing and fixing wedge expansion type hold / dash fasteners on CC / RCC surface backing including drilling necessary holes and the cost of bolts etc., complete : Fastener with threaded dia. 6 mm	300.00	Ea.	50.00	15,000.00	
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	2.00	Tonne	55,000.00	1,10,000.00	
	Plain cement concrete					
	Structural Cooncrete - RCC					
	Structural Cooncrete - RCC					
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centring, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	4.38	Cum	4,500.00	19,710.00	
109	Providing and fixing precast cement concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below GL.	17.83	Cum	10,000.00	1,78,300.00	
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	72.21	Cum	4,400.00	3,17,724.00	
	Total					
	Masonry - Brickwork, conventional bricks					
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	18.29	Cum	2,600.00	47,554.00	
	Metal work					
	Wood work					

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Under operation of items - Annexure II

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation						
SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
77	Constructing circular type manhole with class 75 bricks in cement mortar 1:4 with coarse sand, inside plaster 12 mm thick with cement mortar 1:3 with coarse sand, finished with a floating coat of neat cement, foundation concrete 1:3:6 with coarse sand, 150 mm thick cement concrete 1:2:4 on top of masonry including centering, shuttering, making necessary channel in 150 mm thick cement concrete 1:2:4 finished with a floating coat of neat cement, complete, but excluding cost of foot rest and outside plaster, excavation and back filling, complete, of internal size : Add for depth over 910 mm and upto 1670 mm for circular manhole 910 mm dia at bottom and 560 mm dia at top	2.00	m	19,000.00	38,000.00	
78	Constructing manholes one brick thick with class 75 bricks in cement mortar 1:4 with coarse sand, RCC top slab 150 mm thick with cement concrete 1:2:4 with necessary reinforcement, foundation concrete, 200 mm thick with cement concrete 1:4:8 with coarse sand, 12 mm thick inside plaster with cement mortar 1:3 in coarse sand finished with a floating coat of neat cement, making channels with cement concrete 1:2:4, finished with a floating coat of neat cement, complete, but excluding cost of foot rests and outside plaster, excavation and back filling, complete, of internal size : 900 x 800 x 600 mm deep	7.00	Ea.	12,000.00	84,000.00	
79	Constructing manholes one brick thick with class 75 bricks in cement mortar 1:4 with coarse sand, RCC top slab 150 mm thick with cement concrete 1:2:4 with necessary reinforcement, foundation concrete, 200 mm thick with cement concrete 1:4:8 with coarse sand, 12 mm thick inside plaster with cement mortar 1:3 in coarse sand finished with a floating coat of neat cement, making channels with cement concrete 1:2:4, finished with a floating coat of neat cement, complete, but excluding cost of foot rests and outside plaster, excavation and back filling, complete, of internal size : 1200 x 900 x 900 mm deep	4.00	Ea.	20,000.00	80,000.00	
82	Providing manhole covers with frames and fixing the same during laying of cement concrete / reinforced cement concrete 1:2:4 mix on top of brick work / in slab, complete, of shape and duty : SFRC conforming to IS:12592, Rectangular, Medium duty 600 x 600 mm (Grade designation MD 10)	13.00	Ea.	2,500.00	32,500.00	

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Under operation of items - Annexure II

Name of the work: Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation						
SNo	Description	Tender Qty	Unit	Rate / Unit	Tender Amount	Justification
(1)	(2)	(3)	(4)	Rs. (5)	Rs. (6) = (3) x (5)	(7)
SITE PREPARATION						
Site Demolition						
External services						
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concertina wire and the like.	155.00	Sqm	34.70	5,379.12	
Piping - Drainage & Sewerage						
65	Constructing brick masonry chambers with class 75 bricks in cement mortar 1:5 with fine sand, RCC top slab 1:2:4 of avg. thickness 150 mm, including reinforcement, excavation, refilling, 100 mm thick foundation concrete 1:5:10 with coarse sand, 12 mm thick inside plastering with cement mortar 1:3 with coarse sand, finished with a floating coat of neat cement, and 15 mm thick outside plastering in cement mortar 1:4 with fine sand, complete with one brick thick wall, of size : 600 x 600 x 750 mm deep inside, with CI surface box 100 mm top dia., 160 mm bottom dia. and 180 mm deep inside, with chained lid.	12.00	Ea.	9,000.00	1,08,000.00	
66	Constructing brick masonry chambers with class 75 bricks in cement mortar 1:5 with fine sand, RCC top slab 1:2:4 of avg. thickness 150 mm, including reinforcement, excavation, refilling, 100 mm thick foundation concrete 1:5:10 with coarse sand, 12 mm thick inside plastering with cement mortar 1:3 with coarse sand, finished with a floating coat of neat cement, and 15 mm thick outside plastering in cement mortar 1:4 with fine sand, complete with one brick thick wall, of size : 600 x 600 x 750 mm deep inside, with CI surface box 350 x 350 mm and 165 mm deep inside, with chained lid, for fire hydrant.	13.00	Ea.	10,000.00	1,30,000.00	

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Excess operation of quantities alongwith financial implications of all the items given - Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount		Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
					Rs.	Rs.	Qty	Amount	Qty	Amount	Qty	Amount		
115	Providing brick work with bricks of class 75 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc complete : Super structure upto 20.0 m above plinth level. Random rubble masonry	125.00	Sqrm	680.00	85,000.00	60.52	41,153.60	55.80	37,944.00	0.00	0.00	0%		
116	Providing random rubble masonry with hard stone with sides of stones, hammer dressed to achieve minimum thicknesses of joints and laid in cement mortar 1:6 with coarse sand, with joints not more than 15 mm thick, joints finished flush/raked to minimum 10 mm depth including necessary scaffolding, complete. Allow for levelling with cement concrete 1:6:12 with coarse sand at plinth/window sill/ceiling level and the like, in : Foundations and plinths, (1.5 m below and upto 1.2 above GL)	75.00	Cum	2,600.00	1,95,000.00	36.71	95,446.00	32.59	84,734.00	0.00	0.00	0%		
	Metal work													
	Structural steel													
119	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, trusses and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	2,132.75	2,38,868.00	2,132.75	2,38,868.00	0.00	0.00	0%		
121	Providing, fabricating and erecting MS welded built up sections/ frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete : In, stringers, treads, landings, etc. of staircases including chequered plates wherever required, all complete.	200.00	Kg	130.00	26,000.00	7,000.00	9,10,000.00	0.00	0.00	6,800.00	8,84,000.00	3400%		
	Brd Mesh													
122	Refabricating with existing framework with additional rod welded support and spreading GI welded metal mesh over the frames to shape and size and installing the fabricated units in place between RC fins without gips.	375.00	Kg	125.00	46,875.00	2,760.00	3,45,000.00	1,000.00	1,25,000.00	2,385.00	2,98,125.00	636%		
	Wood work													
	Wood Framing													
125	Providing and fixing wooden frame with 50 mm x 50 mm battens, fixed at 600 mm centre to centre (both ways). Allow for solignum treatment to the timber framework : 2nd class CP teak Wood	225.00	Sqrm	3,500.00	7,87,500.00	161.85	5,66,475.00	161.85	5,66,475.00					
126	Providing, fabricating and fixing in position selected quality seasoned and chemically treated wrought wood work in trusses, rafters, runners, posts, struts, wall plates, etc of size and profile in inclined roofs including anchoring to concrete members with holding down bolts, fixing accessories and all incidental works complete. 2nd class CP teakwood Rails and Balusters	20.00	cum	1,50,000.00	30,00,000.00	8.12	12,18,600.00	6.20	9,30,600.00	0.00	0.00	0%		
129	Providing and placing in position over/on vapour barrier and such locations, insulation slab of approved manufacturers, abutting each other closely, including cutting to required sizes/profiles and all incidental work, complete, including applying a bonding base of a coat of blown bitumen @ 1.0 kg/sqm, glass wool/mineral wool/rock wool shall be packed in 100 micron low density polythene film, duly sealed from all sides (frame work shall be paid for separately) : 50 mm thick, fibre-glass (24kg per cum)	625.00	Sqrm	500.00	3,12,500.00	93.41	46,705.00	0.00	0.00	0.00	0.00	0%		

Excess operation of quantities alongwith financial implications of all the items given - Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit		Tender Amount		Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
				Rs.		Rs.		Qty	Amount	Qty	Amount	Qty	Amount		
92	Providing and fixing centering and shuttering for concrete work (plain and reinforced) in following locations, including strutting, propping, bracing, bolting etc bolt / spring coil / plastic cone, wedging, easing, striking, removal etc, complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqm	300.00	10,500.00	433.17	1,29,951.00	433.17	1,29,951.00	433.17	1,29,951.00	398.17	1,19,451.00	1138%	
	Reinforcement steel														
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	15.00	Tonnt	55,000.00	8,25,000.00	9.29	5,10,785.00	9.29	5,10,785.00	9.29	5,10,785.00	0.00	0.00	0%	
	Plain cement concrete														
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	41.85	1,46,475.00	41.85	1,46,475.00	41.85	1,46,475.00	1.85	6,475.00	5%	
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	10.93	38,255.00	10.93	38,255.00	10.93	38,255.00	0.00	0.00	0%	
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	176.88	6,54,456.00	176.88	6,54,456.00	176.88	6,54,456.00	161.88	5,98,956.00	1079%	
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations, laid in panels not exceeding 4 sqm., consolidated, finished fair and cured complete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	105.60	3,90,720.00	73.22	2,70,914.00	73.22	2,70,914.00	48.60	1,79,820.00	85%	
	Structural Cooncrete - RCC														
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	13.62	61,290.00	13.62	61,290.00	13.62	61,290.00	0.00	0.00	0%	
	Precast - Fins/louvers														
109	Providing and fixing precast concrete in vertical and horizontal fins individually or forming boxes and for louvers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand, along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling at all levels above/below G.L.	33.50	Cum	10,000.00	3,35,000.00	6.61	66,120.00	5.67	56,700.00	5.67	56,700.00	0.00	0.00	0%	
	Masonry - Brickwork, conventional bricks														
110	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above GL)	85.00	Cum	4,250.00	3,61,250.00	188.95	8,03,037.50	188.95	8,03,037.50	188.95	8,03,037.50	103.95	4,41,787.50	122%	
111	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	37.50	1,65,000.00	37.50	1,65,000.00	37.50	1,65,000.00	0.00	0.00	0%	
112	Providing brick work with bricks of class 75, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Basement, under ground water tank and the like, upto 7.0 m below G.L.	30.00	Cum	4,250.00	1,27,500.00	28.15	1,19,637.50	13.20	56,100.00	13.20	56,100.00	0.00	0.00	0%	

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Excess operation of quantities alongwith financial implications of all the items given - Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit		Tender Amount		Bill claimed by M/s/CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
				Rs.		Rs.		Qty	Amount	Qty	Amount	Qty	Amount		
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 300 mm and upto 600 mm	40.00	Ea.	500.00		20,000.00		10.00	5,000.00	10.00	5,000.00	0.00	0.00	0%	
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00		12,000.00		32.00	32,000.00	32.00	32,000.00	20.00	20,000.00	167%	
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100sqm	1,100.00		66,000.00		20.00	22,000.00	20.00	22,000.00	0.00	0.00	0%	
41	Banking / Depositing all types of excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00		45,500.00		481.73	67,442.20	481.73	67,442.20	156.73	21,942.20	48%	
44	Filling, available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00		37,200.00		111.07	13,328.40	111.07	13,328.40	0.00	0.00	0%	
45	Supplying and stacking good earth, free from organics impurities.	825.00	Cum	350.00		2,88,750.00		1,194.81	4,18,183.50	1,194.81	4,18,183.50	369.81	1,29,433.50	45%	
46	Bulk Excavation														
46	Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller, or compacting with wooden or steel rammers, and rolling every 3rd and top-most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00		27,500.00		674.71	1,68,677.50	665.50	1,66,375.00	564.71	1,41,177.50	513%	
48	Add for every additional lift of 1.5 m or part thereof in: All types of fill	50.00	Cum	35.00		1,750.00		108.13	3,784.55	108.13	3,784.55	58.13	2,034.55	116%	
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by ramming, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m complete, of pipes, cables of sizes : upto 80 mm dia. (minimum width of trench-450 mm)	230.00	m	150.00		34,500.00		65.55	9,832.50	65.55	9,832.50	0.00	0.00	0%	
56	Termite - Pre treatment														
56	Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II), (Plinth area of the building at ground level shall only be measured); Using Chloropyrophos Emulsifiable concentrate 0.2%.	1,150.00	Sqm	60.00		69,000.00		1,179.52	70,771.20	1,179.52	70,771.20	29.52	1,771.20	3%	
	Concrete Formwork and Accessories														
	Form Work/Centering and shuttering														
	Forms in Place														

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**Excess operation of quantities alongwith financial implications of all the items given - Annexure I
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation**

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 5th and part bill		Passed payment sofar till 4th and part bill		Variation in Qty and Amount (Excess)		% of increased quantity compared to Tender Quantity	Justification
						Qty	Rs.	Qty	Amount	Qty	Amount		
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
	SITE PREPARATION												
	Site Demolition												
	External services												
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.00	6,000.00	6.00	6,000.00	1.00	1,000.00	20%	
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concrete wire and the like.	155.00	Sqm	160.00	24,800.00	121.38	19,420.80	121.38	19,420.80	0.00	0.00	0%	
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqm	450.00	22,500.00	156.01	70,204.50	127.00	57,150.00	106.01	47,704.50	212%	
	Selective demolition												
11	Demolishing lime concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	227.52	2,84,400.00	221.21	2,76,512.50	107.52	1,34,400.00	90%	
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including cutting, straightening, scrapping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	79.15	1,97,875.00	79.15	1,97,875.00	0.00	0.00	0%	
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposed of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	181.07	2,17,284.00	157.77	1,89,324.00	99.07	1,18,884.00	121%	
	Door / window demolition												
17	Taking out door, window and clerestory window shutters (metal or wood) including chowkhat, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: upto 3 sqm	34.00	Ea.	750.00	25,500.00	34.00	25,500.00	34.00	25,500.00	0.00	0.00	0%	
18	Taking out door, window and clerestory window shutters (metal or wood) including chowkhat, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas: over 3 sqm	4.00	Ea.	1,000.00	4,000.00	8.00	8,000.00	8.00	8,000.00	4.00	4,000.00	100%	
19	Dismantling expanded metal or IRC fabrics along with battens and breadings including stacking the serviceable materials within a 50 m lead.	375.00	Sqm	215.00	80,625.00	454.00	97,610.00	454.00	97,610.00	79.00	16,985.00	21%	
	Flooring demolition												
20	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqm	225.00	2,02,500.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,385.11	3,11,649.75	154%	
21	Dismantling tile work in floors and roofs in cement mortar/lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	450.00	Sqm	250.00	1,12,500.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,738.79	4,34,697.50	386%	
	Framing demolition												
23	Dismantling woodwork in frames, trusses, purlins and rafters upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	50.00	m	800.00	40,000.00	55.48	44,384.00	55.48	44,384.00	5.48	4,384.00	11%	
	Partitions Demolition												
	Rain water Pipes demolition												
26	Dismantling CI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia: upto 80 mm	30.00	m	20.00	600.00	1,080.00	21,600.00	1,080.00	21,600.00	1,050.00	21,000.00	3500%	

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- Sub: i) Additions, Alterations & Civil works for the Koothambalam
 ii) Roof board insulation with Anutone boards fixing work - Koothambalam
 Non – Tendered items (EXTRA ITEMS) – Expenditure – Approval of –
 Reg.

- Ref::a). M/s.Chennai Engineers bill No. 1 dated 03.09.2010 — ①
 b). M/s.CARD-The consulting Architect certificate of Payment dated 07.09.2010 - inclusive of Extra Works for amounting Rs.3, 27,550/- | ②
 c.) M/s.CARD – Email dated Sep 9, 2010 at 11.50 AM — ③

The additions, alterations & civil works and Roof board insulation with Anutone boards fixing for the Koothambalam in the Kalakshetra Foundation was awarded to M/s.Chennai Engineers at a total cost of Rs.2,19,09,515/- and Rs.32,71,750/- respectively. | ⑤
| ⑥

While scrutinizing the bill No.1 of M/s.Chennai Engineers for payment, we encountered an additional expenditure of Rs.3.28 lakh towards extra items/ Non-tendered items. On enquiring with our consulting Architect Shri.Ravi Nilakantan, he informed us that “since non - tendered items (EXTRA ITEMS) @ 7% To 12% will appear in all the bills.” | P ④

The approximate expenditure towards non tendered items (Extra items) for the above works, considering 12% @ the total awarded value of Rs.2,51,81,265/- (Rs.2,19,09,515+32,71,750) is Rs.30,21,750/- (Rupees thirty lakh twenty one thousand seven hundred and fifty only) to be paid in stages subject to the entire limit of the amount and the payment will be made to the contractor after certified by the consulting Architect in the certificate of payment.

Submitted for an additional expenditure for Rs.30, 21,750/- (Rupees thirty lakh twenty one thousand seven hundred and fifty only) towards Non tendered items (EXTRA ITEMS) for the above said works.

Cula Samson
DIRECTOR 17/9

Shanoo Mudge

For non-tendered items only part rates should be allowed until the rate is settled with the contractor after going through the rate analysis and approval of same by the architect. It appears that full rates have been allowed. This may be

Sri.P.T.Krishnan
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Sl. No.	Description of the works	Total expenditure	Approval already received	Approval now sought for	Paid so far	Balance to be paid	Remarks
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I.	50,42,366	5,27,444	45,14,622	35,09,123	15,33,243	
2(a)	Under-operation of items given in Annexure II	27,06,555	-	--	---	----	
2(b)	Non-operated items given in Annexure III	46,50,900	-	----	----	----	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV.	62,25,257	30,21,750	32,03,507	28,40,305	33,84,952	-

* Service tax as applicable 4.12%



Hence, Works Committee approval may be given for


- 1) Excess operation of quantities above 25% to the tune of Rs.37,31,925.80 (which is balance over Rs.5,27,744/- already approved)
- 2) Approval for under operation of items given in Annexure II and non-operation of items given in Annexure III as requested by M/s.CARD
- 3) Introduction of new items to the tune of Rs.62,25,257.39 which is the balance over Rs.30,21,750/-which is already approved by the Works Committee.

Submitted for orders please


Deputy Director

Works Committee Members


EO

Director


Smt Madhavi Mudgal


Shri.P.T.Krishnan

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NOTE

September 17, 2011

Sub: Koothambalam - Additions, Alterations and civil works – Reg.

Ref:i) Contract No.3/ 2010-2011
ii) W.O. dated June 17.7.2010
iii) Agreement dated 9th July 2010

M/s.CARD has submitted vide folio 1 to folio 39, a detailed report on the current status and progress of the work in the contract. Therein, M/s.CARD has sought approval for,

- 1) excess operation of quantities above 25% to the tune of Rs.37,31,925.80 (which is balance over Rs.5,27,744/- already approved)
- 2) approval for under operation of items given in Annexure II and non-operation of items given in Annexure III as requested by M/s.CARD
- 3) Introduction of new items to the tune of Rs.62,25,257.39 which is the balance over Rs.30,21,750/-which is already approved by the Works Committee.

It may be seen that already approval has been given by the Works Committee for excess operation of Rs.5,27,744/- vide approval at folio 393 -396. Now approval may be given for the remaining Rs. 37, 31,925.80 (42, 59,669.80 – 5, 27,744) for all items operated items above 25%.

With regard to new items, approval is already been given for operation of new items (non-tendered items) to the tune of Rs. 30, 21,750 /- (12%). Hence now approval is sought for introduction of new items for the balance of Rs.32, 03, 507.39. (62, 25,257 -30, 21,750)

It may be seen that individual item rates with rate analysis have been furnished along with rate analysis. The rates for new items are placed at from 40 to 49. The same has been verified by the undersigned and found to be in order and concurred with by finance. In cases where certain modification have been suggested by the undersigned, concurred in by finance and orally discussed and approved by the Architect, written approval of Architect will also be sought and placed on file. For those items (the list of such item along with sl.No 6,6.1,14,16,21,22,23.1,23.2,23.3,25,26,27,28.1,28.2,28.3,29, and 30 , placed at folio 49-51) On approval of by the Architect they will be admitted for final payment.

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Excess operation of items alongwith financial implications of all the items given - difference between 7th and 5th & part bill																
Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation																
SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 7th and part bill		Passed payment sofar till 5th and part bill		Variation in Qty and Amount (Excess) up to 7th and part bill when compared to tender schedule		Variation in Qty and Amount (Excess) up to 5th and part bill when compared to tender schedule - Already paid		Excess operation qty and value claimed in 6th and 7th bill to be paid	Justification	
						Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount			Qty
(1)	(2) Providing and fixing ceiling tiles / boards in steel / aluminium / wooden frame work, including filling joints with joint fillers, jointing compounds, tapes, papers, painting of edges of tiles/boards, with two coats of primer, necessary screws where required etc., complete (frame work will be paid for separately), of sizes : 12.5 mm thick. Plaster of paris (gypsum anhydrous) ceiling tiles.	625.00	Sqrm	300.00	1,87,500.00	161.85	48,555.00	152.55	45,765.00							
146	Concrete flooring															
147	Providing and laying cement concrete flooring 1:2:4 finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations including nosing of steps etc where required, complete : 25 mm thick	225.00	Sqrm	250.00	56,250.00	75.21	18,802.50	75.21	18,802.50							
148	Providing and laying cement concrete flooring 1:2:4 finished with a floating coat of neat cement including cement slurry, laid in panels, in floors, landing, steps and similar locations including nosing of steps etc where required, complete : 40 mm thick	750.00	Sqrm	350.00	2,62,500.00	322.11	1,12,738.50	322.11	1,12,738.50							
159	CONCRETE FLOORING Providing and laying 40 mm thick red oxide flooring, under layer of 30 mm thick cement concrete 1:2:4 and top layer of 10 mm thick plaster of cement red oxide mix (using 3.5 kg of red oxide of iron per 50 kg of cement) in cement mortar 1:3 with coarse sand finished with a floating coat of neat cement red oxide mix of same proportion, including cement slurry, nosing of steps etc., complete.	850.00	Sqrm	500.00	4,25,000.00	907.39	4,53,695.00	782.93	3,91,465.00	57.39	28,695.00	0.00	57.39	28,695.00	30	
160	Providing three finish coats of synthetic enamel colour paint, applied evenly and finished to approved texture, including, preparation of surface and a coat of primer, complete : Scaled surfaces with zinc chromate primer	350.00	Sqrm	140.00	49,000.00	2,526.08	3,53,651.20	1,687.06	2,36,188.40	2,176.08	3,04,651.20	1,337.06	1,87,188.40	839.02	1,17,462.80	31
161	Paints - Walls & Ceilings															
	Providing three finish coats of dry colour distemper to walls and ceilings applied evenly to give a uniform finish including preparation of surfaces, primer coat of whitening to give an even shade.	1,000.00	Sqrm	80.00	80,000.00	1,565.12	1,25,209.60	1,155.18	92,414.40	565.12	45,209.60	155.18	12,414.40	409.94	32,795.20	32
	error in item 121						-2,600.00									
	Part rate items - 148 -							782.93	-234,879.00	907.39	-272,217.00	907.39	-272,217.00	907.39	-272,217.00	
	TOTAL						1,23,17,126.00	1,25,87,994.06	1,16,45,800.10	53,87,212.56	50,42,365.90	3,44,846.66	3,44,846.66	2199505		
	7th and part bill value								9,42,193.96							
	7th and part bill value - excess operation value															

✓
✓
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Excess operation of activities alongwith financial implications of all the items given - difference between 5th and 5th & part bill

Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty and Amount (Excess) up to 7th and part bill when compared to tender schedule		Variation in Qty and Amount (Excess) up to 5th and part bill when compared to tender schedule - Already paid		Excess operation qty and value claimed in 6th and 7th bill to be paid		Justification
						Qty (7)=(6*5)	Amount (8)=(7*5)	Qty (9)=(8*5)	Amount (10)=(9*5)	Qty (11)=(7-3)	Amount (12)=(11*5)	Qty (13)=(9-3)	Amount (14)=(13*5)	Qty (15)=(11-13)	Amount (16)=(15*3)	
115	Providing brick work with bricks of class 7.5, joints finished flush/raked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in Basement, under ground water tank and the like, upto 7.0 m below ground level. Providing brick work with bricks of class 7.5 in half brick thick walls in any shape and profile including curvilinear, laid in cement mortar 1:4 with coarse sand, joints finished flush/raked to 12 mm depth, cured, including scaffolding and flat reinforcement (25 x 3 mm) at every fourth course and embedding the same in adjoining masonry/columns by drilling holes etc. complete. Super structure upto 20.0 m above plinth level.	30.00	Cum	4,250.00	1,27,500.00	40.29	1,71,232.50	28.15	1,19,637.50	10.29	43,732.50	0.00	0.00	10.29	43,732.50	22
116	Random rubble masonry	125.00	Sqrm	680.00	85,000.00	66.98	45,546.40	60.52	41,153.60							
119	Structural steel															
121	BUILT UP SECTION Providing, fabricating and erecting bolted structural steel built up sections, russes and frames and applying a primer coat of zinc chromate on duly prepared surfaces, complete.	2,500.00	Kg	112.00	2,80,000.00	4,666.38	5,22,634.56	2,132.75	2,38,868.00	2,166.38	2,42,634.56	0.00	0.00	2,166.38	2,42,634.56	23
122	Blnd Mesh	200.00	Kg	130.00	26,000.00	7,775.44	10,10,807.20	7,000.00	9,10,000.00	7,575.44	9,84,807.20	6,800.00	8,84,000.00	775.44	1,00,807.20	24
125	Wood Framing	375.00	Kg	125.00	46,875.00	2,760.00	3,45,000.00	2,760.00	3,45,000.00	2,385.00	2,98,125.00	2,385.00	2,98,125.00	0.00	0.00	25
126	Roof Truss	225.00	Sqrm	3,500.00	7,87,500.00	161.85	5,66,475.00	161.85	5,66,475.00							
129	Rads and Balusters	20.00	cum	1,50,000.00	30,00,000.00	8.93	13,39,500.00	8.12	12,18,600.00							
131	Roof tiles	625.00	Sqrm	500.00	3,12,500.00	93.41	46,705.00	93.41	46,705.00							
132	Providing and fixing Mangalore tiles of size 400 x 240 mm, so as to cover an area of 320 x 210 mm, the lap should be not less than 75 mm.	200.00	Sqrm	910.00	1,82,000.00	1,016.93	9,25,406.30	1,016.93	9,25,406.30							26
133	Providing and fixing ridge tile and 3 way connector including necessary jointing	2,500.00	Sqrm	350.00	8,75,000.00	995.32	3,48,362.00	995.32	3,48,362.00							
134	Door & Windows wooden frames providing and fabricating and fixing in position selected quality seasoned and chemically treated wood in frames and sub frames of doors, windows, clerestory windows and other frames, wrought to size and profile with mired joints including fixing to supports with threaded expansion bolts/ hold fast or other fixing accessories complete 2nd class CP teak wood	115.00	Rm	225.00	25,875.00	346.11	77,874.75	346.11	77,874.75							27
137	Providing 10 mm thick average plaster to soffits and sides of slabs, beams and other concrete surfaces, etc., in cement mortar 1:4 with fine sand, applied, finished smooth and cured, complete.	2.50	cum	1,70,000.00	4,25,000.00	0.87	1,47,900.00	346.11	0.00							
138	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixers: 1:6 with fine sand	200.00	Sqrm	265.00	53,000.00	286.61	75,951.65	286.61	75,951.65							28
141	Providing 12 mm thick average cement plaster to walls, columns, piers, etc., applied, finished smooth and cured, complete, with mixers: 1:6 with coarse sand	150.00	Sqrm	215.00	32,250.00	569.94	1,22,537.10	544.08	1,16,977.20	419.94	90,287.10	394.08	84,727.20	25.86	5,559.90	29
141	Ceiling, wall acoustical tiles	180.00	Sqrm	256.00	42,480.00	110.65	26,113.40	110.65	26,113.40							

Excess operation of activities alongwith financial implications of all the items given - difference between 5th and 5th & part bill

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 7 th and part bill		Passed payment sofar till 5th and part bill		Variation in Qty and Amount (Excess) up to 7th and part bill when compared to tender schedule		Variation in Qty and Amount (Excess) up to 5th and part bill when compared to tender schedule - Already paid		Excess operation qty and value claimed in 6th and 7th bill to be paid	Justification	
						Qty	Amount	Qty	Amount	Qty	Amount	Qty	Amount			
(1)	(2)	(3)	(4)	(5)	(6) = (3) x (5)	(7)	(8) = (6) x (5)	(9)	(10) = (8) x (5)	(11) = (7 - 3)	(12) = (11 x 5)	(13) = (9 - 3)	(14) = (13 x 5)	(15) = (11 - 13)	(16) = (15 x 3)	(17)
45	Supplying and stacking good earth, free from organics impurities. Bulk Excavation	825.00	Cum	350.00	2,88,750.00	1,194.81	4,18,183.50	1,194.81	4,18,183.50	369.81	1,29,433.50	369.81	1,29,433.50	0.00	0.00	13
46	Earth work in rough excavation, in all types of soil, banking excavated earth in layers not exceeding 200 mm in thickness, breaking clods, watering, rolling each layer with 1/2 ton roller or compacting with wooden or steel rammers, and rolling every 3rd and top most layer with power roller of minimum 8 ton capacity and dressing up, in embankment for roads, flood banks, marginal banks and guide banks or filling up ground depressions, lead up to 50 m and lift up to 1.5 m, complete.	110.00	Cum	250.00	27,500.00	692.54	1,73,135.00	674.71	1,68,677.50	582.54	1,45,635.00	564.71	1,41,177.50	17.83	4,457.50	14
48	Add for every additional lift of 1.5 m or part thereof in: All types of Fill	50.00	Cum	35.00	1,750.00	108.13	3,784.55	108.13	3,784.55	58.13	2,034.55	58.13	2,034.55	0.00	0.00	15
52	Earth work in excavation, in trenches, in all types of soil, for pipes, cables, etc. including excavation for sockets, and dressing of sides, ranning of bottoms, depth up to 1.5 m including getting out the excavated earth and then returning the soil as required, in layers not exceeding 200 mm in depth including consolidating each deposited layer by rammers, watering etc. and disposing of surplus excavated soil as directed, within a lead of 50 m, complete, or pipes, cables of sizes : upto 60 mm dia. (Minimum width of trench - 450 mm)	230.00	m	150.00	34,500.00	65.55	9,832.50	65.55	9,832.50							
56	Providing and injecting chemical emulsions for pre-construction anti-termite treatment and creating continuous chemical barrier under and all around the column pits, wall trenches, basement excavation, top surfaces of plinth filling, junctions of walls and floors, along the external perimeter of buildings, expansion joints, over the top surface of consolidated earth on which plinth protection is to be laid, surrounding of pipes and conduits etc. complete, in accordance with IS:6313 (Part II), (Plinth area of the building at ground level shall only be measured). Using Chloropyphos Emulsifiable concentrate 0.2%.	1,150.00	Sqrm	60.00	69,000.00	1,179.52	70,771.20	1,179.52	70,771.20	29.52	1,771.20	29.52	1,771.20	0.00	0.00	16
	Concrete Formwork and Accessories															
	Form Work/Ceiling and shuttering															
92	Providing and fixing centering and shuttering for concrete work (plan and reinforced) in following locations, including strutting, propping, bracing, bolting tie bolts / spung, coil / plastic conc. wedging, casing, sinking, removal etc. complete. Allow for forming grooves, drips, throats, chamfers, cut-outs, openings etc. where called for and for dressing with approved shuttering oil to prevent adhesion. The works are at all levels. The floor height is up to 4.00 m : Sides of footings of columns and walls and sides of base slabs.	35.00	Sqrm	300.00	10,500.00	433.17	1,29,951.00	433.17	1,29,951.00	398.17	1,19,451.00	398.17	1,19,451.00	0.00	0.00	17
100	Reinforcement steel															
100	Providing and laying in position TMT (Thermo Mechanically Treated) bar reinforcement in all reinforced concrete works including straightening, cutting, bending, binding with 18 gauge annealed steel wire, complete, of grade : Fe 415	15.00	Tonnm	55,000.00	8,25,000.00	9.29	5,10,785.00	9.29	5,10,785.00							
101	Providing and laying cement concrete with coarse sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms curing etc., complete, of nominal mix : 1:4:8	40.00	Cum	3,500.00	1,40,000.00	41.85	1,46,475.00	41.85	1,46,475.00	1.85	6,475.00	1.85	6,475.00	0.00	0.00	18
102	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:4:8	18.00	Cum	3,500.00	63,000.00	10.93	38,255.00	10.93	38,255.00							
103	Providing and laying cement concrete with fine sand and graded stone aggregate, 40 mm nominal size in foundations, footings and under floors including side forms, curing etc., complete, of nominal mix : 1:3:6	15.00	Cum	3,700.00	55,500.00	176.88	6,54,456.00	176.88	6,54,456.00	161.88	5,98,956.00	161.88	5,98,956.00	0.00	0.00	19
104	Providing and laying plain cement concrete 1:3:6 with coarse sand, laid to required thickness (not exceeding 50mm) and slopes, in roof screedings, floor screedings and similar locations laid in panels not exceeding 4 sqm., consolidated, finished fair and cured concrete : Floor screedings	57.00	Cum	3,700.00	2,10,900.00	115.55	4,27,535.00	105.60	3,90,720.00	58.55	2,16,635.00	48.60	1,79,820.00	9.95	36,815.00	20
105	Structural Concrete - RCC															
105	Providing and laying in position, specified mix of RCC, including compaction and curing complete but excluding centering, shuttering and reinforcement, 1:2:4 nominal mix : In foundation and plinth (1.5 m below and upto 1.2 m above G.L.)	28.00	Cum	4,500.00	1,26,000.00	13.62	61,290.00	13.62	61,290.00							
109	Precast - Fins/lowers															
109	Providing and fixing precast concrete in vertical and horizontal fins individually or forming boxes and for lowers and similar, cast, cured, hoisted and fixed in position, setting in cement mortar 1:3 with coarse sand along with required formwork and finishing smooth and all fixing arrangements complete but excluding the cost of reinforcement. Allow for stacking, curing and handling, at all levels above/below G.L.	33.50	Cum	10,000.00	3,35,000.00	6.61	66,120.00	6.61	66,120.00							
110	Masonry - Brickwork - conventional bricks															
111	Providing brick work with bricks of class 75, joints finished flush/aked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Foundations and plinths (1.5 m below and upto 1.2 m above G.L.)	85.00	Cum	4,250.00	3,61,250.00	188.95	8,03,037.50	188.95	8,03,037.50	103.95	4,41,787.50	103.95	4,41,787.50	0.00	0.00	21
112	Providing brick work with bricks of class 75, joints finished flush/aked to 12 mm depth, cured including necessary scaffolding complete in cement mortar 1:6 with coarse sand, in : Superstructures upto 20.0 m above plinth level.	125.00	Cum	4,400.00	5,50,000.00	38.99	1,71,556.00	37.50	1,65,000.00							

Excess operation on activities alongwith financial implications of all the items given - difference between 5th and 5th & part bill
 Name of work : Additions, Alterations and Civil works at Koothambalam in Kalakshetra Foundation

SNo	Description	Tender Qty	Unit	Rate/Unit	Tender Amount	Bill claimed by M/s.CARD in 7th and part bill		Passed payment so far till 5th and part bill		Variation in Qty and Amount (Excess) up to 7th and part bill when compared to tender schedule		Variation in Qty and Amount (Excess) up to 5th and part bill when compared to tender schedule - Already paid		Excess operation qty and value claimed in 6th and 7th bill to be paid		Justification	
						Qty (7)=(8 x 5)	Amount (6) = (5) x (7)	Qty (9)=(10 x 5)	Amount (10)=(9 x 5)	Qty (11)=(7 - 3)	Amount (12)=(11 x 5)	Qty (13)=(9 - 3)	Amount (14)=(13 x 5)	Qty (15)=(11 - 13)	Amount (16)=(15 x 3)		
SITE PREPARATION																	
Site Demolition																	
External services																	
5	Add for dismantling additional depth of : Rectangular manholes, 1200 x 900 mm, for depth beyond 900 mm	5.00	m	1,000.00	5,000.00	6.00	6,000.00	6.00	6,000.00	1.00	1,000.00	1.00	1,000.00	0.00	0.00	1	
9	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Barbed wire / chain link / expanded metal / concrete wire and the like.	155.00	Sqm	160.00	24,800.00	121.38	19,420.80	121.38	19,420.80								
10	Dismantling of fence including supports of MS sections, pipe, wooden or any other material or combination of materials, along with foundations of supports, hooks, bolts etc., excavation of earth including refilling the earth etc., stacking of serviceable materials and disposal of unserviceable materials within 50 m lead : Wooden batten / boards	50.00	Sqm	450.00	22,500.00	156.01	70,204.50	156.01	70,204.50	106.01	47,704.50	106.01	47,704.50	0.00	0.00	2	
Selective demolition																	
11	Demolishing line concrete / cement concrete in all mixes, in foundations, super structure and basement, at all heights / depths, including disposal of unserviceable materials upto a 50 m lead.	120.00	Cum	1,250.00	1,50,000.00	227.52	2,84,400.00	227.52	2,84,400.00	107.52	1,34,400.00	107.52	1,34,400.00	0.00	0.00	3	
12	Demolishing RCC work in foundations, super structure and basement, at all heights / depths, including curing, straightening, scraping, cleaning and stacking of reinforcement bars and disposal of unserviceable materials upto a 50 m lead.	380.00	Cum	2,500.00	9,50,000.00	79.15	1,97,875.00	79.15	1,97,875.00								
14	Dismantling / Demolishing brick work in cement / lime mortar in foundations, super structure and basement, at all heights / depths, including removing of mortar, cleaning bricks and stacking of serviceable materials and disposal of unserviceable materials upto 50 m lead	82.00	Cum	1,200.00	98,400.00	184.49	2,21,388.00	181.07	2,17,284.00	102.49	1,22,988.00	99.07	1,18,884.00	3.42	4,104.00	4	
Door / window demolition																	
17	Taking out door, window and storey window shutters (metal or wood) including chowkhat, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas upto 3 sqm	34.00	Ea.	750.00	25,500.00	34.00	25,500.00	34.00	25,500.00								
18	Taking out door, window and storey window shutters (metal or wood) including chowkhat, architrave, holdfast, etc. complete and stacking within a 50 m lead, of areas over 3 sqm	4.00	Ea.	1,000.00	4,000.00	8.00	8,000.00	8.00	8,000.00	4.00	4,000.00	4.00	4,000.00	0.00	0.00	5	
19	Dismantling expanded metal or IRC fabrics along with battens and headings including stacking the serviceable materials within a 50 m lead.	375.00	Sqm	215.00	80,625.00	454.00	97,610.00	454.00	97,610.00	79.00	16,985.00	79.00	16,985.00	0.00	0.00	6	
Flooring demolition																	
20	Dismantling tile work in floors and roofs in cement mortar / lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : 10 mm to 25 mm	900.00	Sqm	225.00	2,02,500.00	2,285.11	5,14,149.75	2,285.11	5,14,149.75	1,385.11	3,11,649.75	1,385.11	3,11,649.75	0.00	0.00	7	
21	Dismantling tile work in floors and roofs in cement mortar / lime mortar including stacking of serviceable material and disposal of unserviceable material upto a lead of 50 m, of thickness : over 25 mm and upto 40 mm	450.00	Sqm	250.00	1,12,500.00	2,188.79	5,47,197.50	2,188.79	5,47,197.50	1,738.79	4,34,697.50	1,738.79	4,34,697.50	0.00	0.00	8	
Priming demolition																	
23	Dismantling woodwork in frames, trusses, rafters and joists upto a 10 metres span and 5 metres height including stacking the material within a 50 m lead, of sectional areas : upto 4000 sqmm	50.00	m	800.00	40,000.00	55.48	44,384.00	55.48	44,384.00	5.48	4,384.00	5.48	4,384.00	0.00	0.00	9	
Rain water Pipes demolition																	
26	Dismantling GI / GS / PVC / asbestos exposed rain water pipes with fittings and clamps including stacking the serviceable material and disposal of unserviceable material within a 50 m lead, of dia. upto 80 mm	30.00	m	20.00	600.00	1,080.00	21,600.00	1,080.00	21,600.00	1,050.00	21,000.00	1,050.00	21,000.00	0.00	0.00	10	
31	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 300 mm and upto 600 mm	40.00	Ea.	500.00	20,000.00	10.00	5,000.00	10.00	5,000.00								
32	Felling trees including cutting of trunks and branches, removing the roots, stacking of serviceable materials and disposal of unserviceable materials within a 50 m lead, complete, of girths (measured at a height of 1.0 m above GL) : over 600 mm and upto 1200 mm	12.00	Ea.	1,000.00	12,000.00	32.00	32,000.00	32.00	32,000.00	20.00	20,000.00	20.00	20,000.00	0.00	0.00	11	
34	Surface dressing of the ground including removing vegetation and inequalities not exceeding 150 mm deep, in all types of soil and disposal of rubbish upto a lead of 50 m, complete.	60.00	100sqm	1,100.00	66,000.00	20.00	22,000.00	20.00	22,000.00								
41	Banking / Depositing all types of excavated earth in layers not exceeding 300 mm in thickness, breaking clods, watering, rolling each layer with power roller of minimum 8 ton capacity and dressing up to required profiles and levels, in embankment for roads, flood banks, marginal banks, mounds and guide banks etc. and compacting the deposited earth under optimum moisture content to give at least 95% of the maximum dry density, lead up to 50 m and lift up to 1.5 m, complete	325.00	Cum	140.00	45,500.00	481.73	67,442.20	481.73	67,442.20	156.73	21,942.20	156.73	21,942.20	0.00	0.00	12	
44	Filling available excavated earth (excluding rock) in trenches, plinths, sides of foundations and in adjacent areas to profiles, shapes and levels etc. in layers not exceeding 200 mm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift up to 1.5 m, complete.	310.00	Cum	120.00	37,200.00	111.07	13,328.40	111.07	13,328.40								

Sl. No.	Description of the works	Total expenditure	Approval already received	Approval now sought for	Paid so far	Balance to be paid	Remarks
1	Excess operation of quantities along with financial implications of all the items given in the Annexure I.	53,87,212.56	50,42,365.90	3,44,846.56	50,42,365.90	3,44,846.56	
2 (a)	Under-operation of items given in Annexure II	27,06,555.12	-	--	---	----	
2 (b)	Non-operated items given in Annexure III	46,50,900.00	-	----	----	----	
3	Introduction of all new items along with quantities and proposed rate given in Annexure IV.	62,25,257.39	62, 25,257.39	-----	58,54,595.00	3,70,662.00	-

Service tax as applicable 4.12%

Hence, Works Committee approval is sought for

Excess operation of quantities to the tune of Rs. 3, 44,846.56 (which is over and above Rs.50,42,365.90/- already approved) due to increase in work based on site condition for which separate statement was prepared and submitted at folio 126 to 129.

Submitted for orders please


Director

Works committee Members


EO


Deputy Director


Smt Madhavi Mudgal


Shri.P.T.Krishnan

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KALAKSHETRA FOUNDATION

NOTE

December 17, 2011

Sub: Koothambalam - Additions, Alterations and civil works – Reg.

- Ref:i) Contract No.3/ 2010-2011 Page – separate file
- ii) W.O. dated June 17.7.2010 Page- separate file
- iii) Agreement dated 9th July 2010 Page- separate file
- iv) The works Committee earlier approval note dated September 17, 2011 Page – 52, 53

A reference is invited to the contract and subsequent agreement entered into with M/s.CARD for a total value of Rs.2.19 crore for the above work. During the course of execution of work, M/s.CARD has requested for deviation of contract conditions in his letter dated 15.09.2011. The same was approved by the works committee on September 17, 2011 and the deviations up to 5th and part bill recommended by M/s.CARD to the contractor M/s.Chennai Engineers was accepted and paid.

Separate file
Page 1, 2, 3
Page 1 to 53

- 1) Excess operation quantities to the tune of Rs.50, 42,365.90 (which includes excess operation quantities above 25% to the tune of Rs.42, 59,669.80) was approved by the Works Committee, works progressed up to 5th and part bill and paid to the contractor as certified and recommended by the consulting Architect M/s.CARD.
- 2) Approval for under operation of items given in Annexure II and non-operation of items given in Annexure III as requested by M/s.CARD
- 3) Introduction of new items to the tune of Rs.62,25,257.39 (which includes for Rs. Rs.30,21,750/-which is already approved by the Works Committee)

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Page 52, 53

Now after taking in to account 6th and 7th part bills lodged by the M/s.CARD, the following deviation are noticed which are absolutely essential in executing for renovation of koothambalam as indicated in the deviated statement, ^{as} verified M/s.CARD.

Page 54 to 114

The excess operation of items (which includes excess operation above 25%), under operated items, Non operated items and introduction of new items up to 7th and part bill is indicated below for approval. The justification note for such deviation as submitted by M/s.CARD may also been at folio at 1,2and3. The rate adopted for these excess operations is same as quoted in the tender for the similar items and the same was concurred by finance.

Page 1, 2, 3