ADVERTISEMENT

Ref: HDF/cDAR/SFRUTI/7466/19

HDF-cDAR, HIG-196 (First Floor), Kanan Whar, Phase-I, Patia, Bhubaneswar-751024, Odisha invites tender in a sealed cover under two bid system i.e. Technical Bid & Financial Bid from licensed registered civil engineers / contractors (A class) for construction of Common Facilities Centre (CFC) for Grow Green Dairy Trust (SPV), at: Angargadia, Po: Pruthunathpur, Via: Manatri, Mayurbhanj, Odisha.

Date of Commenœment of Tender	Last date of and time of submission of tender	Date & Time for opening of Tender	Cost of tender paper
29/11/2019	19/12/2019 at 5 Pm	23/12/2019 at 3.00 pm	Rs. 10000/-

A complete set of the 'Bid Documents' containing the details of the terms and conditions may be downloaded from the website: www.hdf.org.in / www.hdf.or

DIRECTOR

Date: 29/11/2019

Human Development Foundation – Centre for Development Action & Research, HIG-196 (First Floor), Kanan Vihar, Phase-I,

Patia, Bhubaneswar-751024

Phone: 0674-2741219
Website: www.hdf.org.in

TENDER DOCUMENTS

CONSTRUCTION OF PROCESSING CENTER, OFFICE AND TRAINING CENTER

FOR

GROW GREEN DAIRY TRUST (SPV)
At: ANGARGADI PO: PRUTHUNATHPUR, VIA MANATRI, MAYURBHANJ, ODISHA

To Establish

COMMON FACILITY CENTRE (CFC) OF DAIRY PRODUCT CLUSTER, MAYURBHANJ, DISTRICT OF ODISHA

November 2019

TENDER NOTICE

(Construction of Common Facilities Centre, Grow Green Dairy Trust)

Sealed tenders are invited from **Icensed registered civil engineers / contractors-A class** (having minimum three years of experiences in building construction) for establishment of Common Facilities Centre at: Angargadia, Po: Pruthunathpur, Via: Manatri, District: Mayurbhanj being facilitated by HDF-cDAR, HIG-196 (First Floor), Kanan Vihar, Phase-I, Patia, Bhubaneswar-751024, Odisha. Tender should be submitted in separate envelops for Technical Bid and Financial Bid along with earnest money of Rs. 87000/- and can be deposited at the above address on or before 05.00 PM of 19/12/2019. The Demand Draft of earnest money should be in the name of HDF-cDAR, Bhubaneswar. Tenders will not be accepted after the due time and date, as mentioned. Tenders will have to be submitted by the eligible party in the hard copy and in a sealed envelope containing all required documents and testimonials. Tenders received will be opened before the Purchase Committee of the proposed Common Facilities Centre on 23/12/2019 at 3.00 PM in presence of the interested bidders.

This is a percentage-based tender. Tender form can be obtained from the HDF-cDAR, HIG-196 (First Floor), Kanan Vihar, Phase-I, Patia, Bhubaneswar-751024, Odisha on any working day between 29/11/2019 to 19/12/2019 from 10.00 AM to 5.00 PM by payment of Rs. Rs. 10,000/- in form Demand Draft. Tender forms can also be downloaded from the web site of the HDF-cDAR www.hdf.org.in. A demand draft of Rs. 10,000/- in favour of HDF-cDAR, Bhubaneswar should be enclosed along with the Bid for the Tender Forms downloaded from the website.

The details of the works and Terms and Conditions are available in the Tender Form. Director, HDF-cDAR, Bhubaneswar, Odisha reserves the right to cancel any or all the Tenders without assigning any reason.

Director

Bid :-

Part – 1 Scope of work – Civil Works only

SI.No	Sections of construction
1	Milk processing plant
2	Vermin compost processing shed
3	Biogas plant for thermal application based on cattle dung for generation of green energy

SCOPE OF WORK FORMILK PROCESSING PLANT

SI.No.	Description of items	Nos	L	B/D		H/D		Quantity	Unit
		A) FOUNDA	TION & PL	INTH					
1	Excavation in all types of soil inc	luding morrum, hard soil,	gra ve lly so	il or slush	y soil for	foundation of	wall, colui	mns, plinth b	oeams,
	basement, rail ducts, trenches, u				-	_	_		_
	water if required, refilling the tre								
	and stacking simultaneously the					•		•	•
	same in layers for site developm	9	-	_		ur tools and p	olants, taxe	es etc. comp	lete as
	per direction of Engineer-In-Chai	rge.a) From exiting ground	i ievei up to) 1.5 IVI de	eptns.				
	and the second at the second	25	4.500	1 500	1	1 000		F.C. 250	C
	column foundation-C1	25 13	1.500	1.500		1.000 0.500	=	56.250 6.500	Cum
	stool columns		1.000	1.000			=		Cum
	grade beam	7 	14.750 20.150	0.500		0.400	=	20.650 28.210	Cum
	steps ramp	2	2.000	1.500		0.400	=	0.900	Cum
	ramp	2	2.000	1.500		0.150	=	0.900	Cum
	silo foundation	2	7.065	1.000		0.130	=	8.478	Cum
	cable trench	1	3.000	1.200		0.600	=	1.800	Cum
	Cable Hellul	тт	3.000	1.200		G. Total	=	123.688	Cum
						G. Iotai	_	123.000	Cuili
2	Filling in plinth with selected ex	cavated earth available wit	L thin site (Le	ead not e	xceeding '	100m) in lave	rs of 15cm	to 20cm inc	l cluding
_	watering, consolidating, rammin		•		•				•
	transportation, T&P, complete as		•		Ü		,	O,	Ü
	Column foundation	· · · · · · · · · · · · · · · · · · ·			Total	123.6	588	123.688	Cum
	VIDE QTY 2/3 OF EXCA VATION					Total	=	82.459	Cum
3	Filling selected excavated earth	other than plinth, by me	chanical /	ma nua In	neans for	land develop	ment etc.,	to required	l level,
	within the site (Lead not exceed	ling 300m) in layers of 150	cm to 20cm	n includin	g watering	g, consolidatiı	ng, rammir	ng and comp	oa cting
	etc. complete as directed includ	ling cost of excavation, lo	ading, unlo	oading an	d transpo	rtation, T&P,	complete	as per direct	tion of
	Engine er-in-charge.		1		1	T		ı	
					Total	123.6	88	123.688	Cum
	VIDE QTY 1/3 OF EXCA VATION					Total	=	41.229	Cum

4	Providing, supplying and filling foundation, trenches, & plinth watering, ramming and conso spreading and compacting etc.	foundation areas, and folioating, transportation, fr	oundation s eight, load	surroundi ling, unlo	ng areas ading, lab	in layers of 1	.50mm to	200mm inc	luding
	column foundation-C1	25	1.800	1.800		0.100	=	8.100	Cum
	grade beam	13	1.000	1.000		0.100	=	1.300	Cum
		7	14.750	0.500		0.100	=	5.163	Cum
		7	20.150	0.500		0.100	=	7.053	Cum
	steps ramp	2	2.000	1.500		0.100	=	0.600	Cum
	ra mp	2	2.000	1.500		0.100	=	0.600	Cum
	room inner side	1	17.750	20.150		0.500	=	178.831	Cum
						G. Tota l	=	201.646	Cum
5	Providing, supplying & laying in volumetric proportion 1: 3: 6 (required thickness, for foundat plinth level, at any depth belo ramming, consolidating, as pe	(1cement: 3 coarse sand: 6 ions, below walls, hard par w floors, plinth protection	HG stone k, column , etc. inclu	crusher b footings, s ding cent	roken sto sunk floor, ering and	ne aggregates , terraces, raft shuttering, if	of size 3 ts, roads a required,	7mm and do t any height laying, spre	own) in ab ove a ding,
	labour, T&P, taxes, duties, levie	s, cctori, royalties etc. com	olete a s pe	r direction	ofEngine	er-in-charge.			
	column foundation-C1	25	1.500	1.500		0.100	Ш	5.625	Cum
		13	1.000	1.000		0.100	II	1.300	Cum
	grade beam	7	14.750	0.500		0.100	=	5.163	Cum
		7	20.150	0.500		0.100	II	7.053	Cum
	steps ramp	2	2.000	1.500		0.100	=	0.600	Cum
	ra mp	2	2.000	1.500		0.100	=	0.600	Cum
	room inner side	1	17.750	20.150		0.100	Ш	35.766	Cum
						G. Total	=	56.106	Cum

6	Providing, supplying & fixing ply shuttering centering, bracing & specified period, cost of all mate transportation, loading, unload direction of Engineer —In-Charg staircase, plinth beam, gutter, chajhas, overhead and undergridirected	propping, housing, keepinerial, carpentry works, nailing, of all materials and lage a) For structural eleme	g the same s, including abour, T&F nts, viz. fo sills, copi	in position in pos	on, provid polythee duties, lev Indation, o parapet,	ing access, ar n over the sho ies, octori, ro columns, bea drops, fins, b	nd remova uttering ar oyalties etc ms, slabs, poxes, gutt	of the sam dincluding c. complete precast slal ters, folded	e after cost of as per b, raft, plates,
	column footing	100	1.300	1.300			=	169.000	Sqm
	pedestal	50	0.400	0.250			=	5.000	Sqm
		50	0.650	0.250			=	8.125	Sqm
	column up to plinth (level- 0.600)	50	1.000	0.600			=	30.000	Sqm
		50	1.400	0.600			=	42.000	Sqm
	grade beam	7	14.750	0.350			=	36.138	Sqm
		7	20.150	0.350			=	49.368	Sqm
	stool columns	39	1.000	0.250			=	9.750	Sqm
	pedestal	39	1.600	0.250			=	15.600	Sqm
	above pedestal totop	39	1.000	1.500			=	58.500	Sqm
						G. Total	=	423.480	Sqm
7	Providing, supplying & laying in volumetric proportions, for reir slab, raft, floor, plinth beam, wi underground water tanks, culv compressive strength expressed granite aggregates, necessary lif: coarse sand: 3 HG stone aggreshuttering / centering & reinfor curing, transportation, loading, per direction of Engineer In-Chapter Incompany and do column foundation-C1	nforcement cement concre ndow sills, coping, walls, p erts etc. at different leve in N/sqmm at 28 days as p t and lead finishing concre gates of size 20mm) and rement and including cost unloading, of all materials arge. r M20 or volumetric propo wn) concrete at all level up	te structurarapet, drois in any er I.S: 456-er surfaces, down concited and labout tion 1:11 to highest	ral eleme ops, fins, shape as 1978 usin and for rete in grenial but ear, T&P, ta /2:3 (1ce plinth lev	nts, viz. for boxes, gut per structing 20mm a volumetround and excluding caxes, duties ment: 11,	ters, folded parties, folded parties and down size ic proportion plinth etc. except of reinfores, levies, octo	lumns, beaulates, chajand as din of hard crist 1/2: 3 cluding concement arori, royaltied: 3 HG cru	has, slabs, phas, overheaderected in spusher broke (1 cement st of centerind including es etc. compasher broken	orecast ad and ecified n black : 11/2 ng and cost of lete as
	column foundation-C1	25	1.300	1.300		0.300	=	12.675	Cum

		13	1.000	1.000		0.200	=	2.600	Cum
	grade beam	7	14.750	0.250		0.300	=	7.744	Cum
		7	20.150	0.250		0.300	=	10.579	Cum
	steps ramp	2	2.000	1.000		0.050	=	0.200	Cum
	ra mp	2	2.000	1.000		0.050	=	0.200	Cum
	room inner side	1	17.750	20.150		0.053	=	18.956	Cum
	proposed hard park	1	10.000	10.000		0.100	=	10.000	Cum
						G. Total	=	62.954	Cum
8	Providing, fabricating and fixing precast slab, raft, floor, plinth mullions, overhead and underg structural design and drawing a transporting steel within site procutting, bending and binding at if necessary etc., labour, T&P co	beam, window sills, copinground water tanks, road and as directed and specified is seen to be a	ng, walls, pavement, fied, as pe I store to gauge Gl v Engineer-i	parapet, kerbs, control design at the work wire (to be in-charge.	drops, finulverts, et at all level site, unlo supplied	is, boxes, gut c.at differen Is including li ading and inc bythe contra	ters, folde t levels in ft and load idental cha ctorat his	ed plates, ch any shape ding, unload arges for ha own cost), w	najhas, as per ing & ndling, velding
	I and converted into weight by us	inactandard IS co-afficiant	with Taret	ballarc					
	and converted into weight by us		with Tor st	teelbars			62.05/	Otl	
	9 ,	ing standard IS co-efficient ete Qty @ 1.0 Qtl /Cum	with Tor st	teelbars		G total	62.954	Qtl Otl	Otl
	9 ,	ete Qty @ 1.0 Qtl /Cum			anning	G total	62.954	Qtl	Qtl
9	Providing, supplying and constructions quality approved KB to 24hoursbefore use in foundation including cost of all materials,	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN oricks having minimum crun at all levels below and up transportation, curing, load	uding wast 11:6 (1 cer shing strer p to highes	age and la nent: 6 co ngth 70kg	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffo	62.954 = on and up to the brick bolding, rack	Qtl 66.101 to plinth levents in water with the	Qtl el with vat for joints,
9	Providing, supplying and construction of the concrustion of the concrusion of the construction of the concrusion of the	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN oricks having minimum crun at all levels below and up transportation, curing, load	uding wast 11:6 (1 cer shing strer p to highes	age and la nent: 6 co ngth 70kg	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffo	62.954 = on and up to the brick bolding, rack	Qtl 66.101 to plinth levents in water with the	Qtl el with vat for joints,
9	Providing, supplying and construction of English Vide concrete value in the construction of English Vide concrete value in the construction of English Vide concrete value in the construction of English Vide concrete value	ete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN bricks having minimum crun at all levels below and up transportation, curing, loadineer in-charge.	uding wast 11:6 (1 cer shing strer p to highes ading, unlo	age and lanent: 6 congth 70kg ading, lab	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffo taxes, duties	62.954 = on and up to g the brich bolding, racks, levies, o	Qtl 66.101 to plinth leve ks in water withing out the ctroi royaltie	Qtl el with vat for joints, es etc.
9	Providing, supplying and construction of Englerick work above grade beam	ete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN pricks having minimum crun at all levels below and up transportation, curing, load ineer in-charge. 7	uding wast 11:6 (1 cer shing strer p to highes ading, unlo 14.750 20.150	a ge and la nent: 6 co ngth 70kg of plinth la ading, lab 0.250 0.250	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffor taxes, duties 0.700 0.700	62.954 = on and up to g the brick bilding, rack, levies, o	Qtl 66.101 to plinth leve ks in water with the ctroi royaltie 18.069 24.684	Qtl el with vat for joints, es etc.
9	Providing, supplying and construction of English Vide concrete value in the construction of English Vide concrete value in the construction of English Vide concrete value in the construction of English Vide concrete value	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN pricks having minimum crun at all levels below and up transportation, curing, load ineer in-charge.	uding wast 11:6 (1 cer shing strer p to highes ading, unlo	age and lanent: 6 congth 70kg ading, lab	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffor taxes, duties 0.700	62.954 = on and up to g the brick olding, racks, levies, one control in the cont	Qtl 66.101 to plinth leve ks in water v king out the ctroi royaltie	Qtl el with vat for joints, es etc. Cum Cum
9	Providing, supplying and construction of Englerick work above grade beam	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN pricks having minimum cruing at all levels below and up transportation, curing, load ineer in-charge. 7 7 2	uding wast 11:6 (1 cer shing strer p to highes ading, unlo 14.750 20.150 2.000	age and lanent: 6 congth 70kg of plinth leading, labor 0.250 0.250 1.500	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffor taxes, duties 0.700 0.250	62.954 = on and up to gethe brick blding, racks, levies, or expense = = = = = = = = = = = = = = = = = = =	Qtl 66.101 to plinth level ks in water v king out the ctroi royaltie 18.069 24.684 1.500	Qtl el with vat for joints, es etc. Cum Cum Cum
9	Providing, supplying and construents t class quality approved KB to 24hoursbefore use in foundation including cost of all materials, complete as per direction of Englorick work above grade beam steps	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN pricks having minimum crun at all levels below and uptransportation, curing, loadineer in-charge. 7 7 2 2	uding wast 11:6 (1 cer shing strer p to highes ading, unlo 20.150 2.000 2.000	age and lage and lage and lage and lage and lage and lage adding, lage adding a	oarse sand /sqcm inc evel, all ne) in foundation luding soaking scessary scaffor taxes, duties 0.700 0.700 0.250 0.250	62.954 = on and up to g the brick olding, racks, levies, or e e e e e e	Otl 66.101 to plinth leve ks in water v king out the ctroi royaltie 18.069 24.684 1.500 1.200	Otl el with vat for joints, es etc. Cum Cum Cum Cum
9	Providing, supplying and constructs to class quality approved KB is 24hoursbefore use in foundation including cost of all materials, complete as per direction of Engibrick work above grade beam steps	rete Qty @ 1.0 Qtl /Cum Total inclucting brick masonry in CN pricks having minimum cruing at all levels below and up transportation, curing, load ineer in-charge. 7 7 2 2 2	uding wast 11:6 (1 cer shing strer p to highes ading, unlo 14.750 20.150 2.000 15.000	age and lage adding, lage adding add	oarse sand /sqcm inc evel, all ne) in foundation luding soaking cessary scaffe taxes, duties 0.700 0.700 0.250 0.250	62.954 = on and up to g the brick olding, rack of the prick of the pr	Qtl 66.101 to plinth level ks in water v king out the ctroi royaltie 18.069 24.684 1.500 1.200 0.500	Otl el with vat for joints, es etc. Cum Cum Cum Cum Cum Cum

	Providing, supplying and laying 25mm thick damp proof course in volumetric proportion of 1:2:4 with 20mm and down HG aggregates in plinth or G.L. including necessary centering and shuttering, providing and applying bitumen @1.7 kg/Sqm after curing										
					-				_		
	is over, (the surface should be properly cleaned with brush and finally with a piece of cloth soaked in kerosene oil. Bitumen should be applied uniformly all over so that no blank spaces are left anywhere) including cost of all materials, transportation, loading,										
									oading,		
	unloading, curing, labour, T&P ta	xes, du iles, levies, octroi, r	oyanies ei	c. comple	te as per o	illection of En	gmeerm-	charge.			
		7	14.750	0.250			=	25.81	Sqm		
		7	20.150	0.250			=	35.26	Sqm		
						G. Total	=	61.075	Sqm		
	B) S	UPER STRUCTURE(BRICK I	MASO NAR'	Y & CONC	R ETE WO	RKS)		1	ı		
11	Providing, supplying & fixing plyv										
	shuttering centering, bracing & p			•	•	_					
	specified period, cost of all mate	rial, ca rpentry works, nails	, including	la ying of p	olytheen	over the shut	tering an d	includingco	st of		
	transportation, loading, unloadin		our, T&P, ta	xes, dutie	es, levies, o	octori, royaltie	es etc. com	iplete as per			
	direction of Engineer –In-Charge										
	a) For structural elements, viz. fo	oting foundation, columns	s, beams, s	labs, preca	ast slab, ra	ıft, staircase, p	olinth bear	m. gutte r. be	d		
	a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground										
	block, lintels, window sills, coping	g, walls, parapet, drops, fir	rs, boxes, g	utters, fol	de d plate	s, cha jhas, ove		, 0			
	block, lintels, window sills, coping water tanks, culverts etc. at diffe		_		-	-		, 0			
			_		-	-		, 0			
	water tanks, culverts etc. at diffe	rent levels in any shape as	per struct	ural desig	-	-	erhead a no	d undergroui	nd		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100)	rent levels in any shape as 25	per struct	ural design 4.000	-	-	erhead a no =	120.000	nd Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100)	rent levels in any shape as 25 7	per struct 1.200 14.750	ural design 4.000 0.300	-	-	erhea d a no = =	120.000 30.975	Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel	rent levels in any shape as 25 7 7	1.200 14.750 20.150	4.000 0.300 0.300	-	-	= = = =	120.000 30.975 42.315	Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel	rent levels in any shape as 25 7 7 7 7 7 1	per struct 1.200 14.750 20.150 14.750	4.000 0.300 0.300 0.600	-	-	= = = = =	120.000 30.975 42.315 61.950	Sqm Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam	rent levels in any shape as 25 7 7 7 7 7	per struct 1.200 14.750 20.150 14.750 20.150	4.000 0.300 0.300 0.600	-	-	= = = = = =	120.000 30.975 42.315 61.950 84.630	Sqm Sqm Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab	rent levels in any shape as 25 7 7 7 7 7 1	per struct 1.200 14.750 20.150 14.750 20.150 20.150	ural design 4.000 0.300 0.300 0.600 0.600 14.750	-	-	= = = = = = = = = = = = = = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213	Sqm Sqm Sqm Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab above roof columns	rent levels in any shape as 25 7 7 7 7 1 25	per struct 1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.300 0.600 0.600 14.750 0.750	n and as d	irecte d G. Total	= = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		
12	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab	rent levels in any shape as 25 7 7 7 7 1 25	per struct 1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.300 0.600 0.600 14.750 0.750	n and as d	irecte d G. Total	= = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		
12	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab above roof columns	rent levels in any shape as 25 7 7 7 7 1 25	per struct 1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.300 0.600 0.600 14.750 0.750 cement: 1	n and as d	G. Total	= = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		
12	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab above roof columns -Do- as per RCC of plinth but for	rent levels in any shape as 25 7 7 7 7 1 25	per struct 1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.300 0.600 0.600 14.750 0.750 cement: 1	n and as d	G. Total	= = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab above roof columns -Do- as per RCC of plinth but for aggregates of size 20mm and down	rent levels in any shape as 25 7 7 7 7 1 25	per struct 1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.300 0.600 0.600 14.750 0.750 cement: 1	n and as d	G. Total	= = = = = = =	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		
	water tanks, culverts etc. at diffe plinth to roof (level-1.100) lintel roof beam roof slab above roof columns -Do- as per RCC of plinth but for aggregates of size 20mm and down R.C.C. cols(up to Roof level)	rent levels in any shape as 25 7 7 7 7 1 25 volumetric proportion 1: vn) concrete at all level ab	1.200 14.750 20.150 14.750 20.150 20.150 1.200	ural design 4.000 0.300 0.600 0.600 14.750 0.750 cement: 1	n and as d	G. Total e sand: 3 HG o	erheadand = = = = = = = = erusher bro	120.000 30.975 42.315 61.950 84.630 297.213 22.500 659.583 oken stone	Sqm Sqm Sqm Sqm Sqm Sqm Sqm		

b	R.C.C. Roof-Beam								
	ro of be a m	7	14.750	0.250		0.300	=	7.744	Cum
		7	20.150	0.250		0.300	=	10.579	Cum
	lintel	7	14.750	0.250		0.150	=	3.872	Cum
		7	20.150	0.250		0.150	=	5.289	Cum
	chazha	10	1.700	0.650		0.075	=	0.829	Cum
						G. Total	=	28.313	Cum
13	-Do- as per items no above floor)	e 8.0 but in superstructure at all	height abo	ve highes	t p i nth le	vel up to all he	eight up to	6.0M(Grou	nd
	inner side wall	4	14.750	0.250		2.500	=	36.875	Cum
		4	20.150	0.250		2.500	=	50.375	Cum
	a bove lintel	4	14.750	0.250		1.000	=	14.750	Cum
		4	20.150	0.250		1.000	=	20.150	Cum
	parapet	2	14.750	0.250		0.500	=	3.688	Cum
		2	20.150	0.250		0.500	=	5.038	Cum
	DOOR	-4	1.500	0.250		2.500	=	-3.750	Cum
		-1	1.200	0.250		2.500	=	-0.750	Cum
	RX	-3	2.500	0.250		2.500	=	-4.688	Cum
	window	-10	1.500	0.250		1.500		-5.625	Cum
						Grand			
						Total	=	116.063	Cum
		C) SUPER STRUCTU							
14		cement for cement concrete/ce las perthe requirements and ma		-		•	-		ny
	transportation, loading, un	loading, labour T&P, taxes, dutie		•		_		•	r –In-
	• • •	loading, labourT&P, taxes, dutie		•		_		•	r –In-
	transportation, loading, un	•		•		_		•	
	transportation, loading, un	Oty vide Item of outside		•		_	er directio	n of Enginee	r –In- Kg Kg

15	Providing, supplying and laying at all levels 32mm thick IPS flooring and dado & skirting 100mm to 1500mm height, with PCC 1:2:4 (1: cement, 2: coase sand, 4: HG stone aggregates) neat cement punning on top chequered / smooth finish including rounding off										
	the junction and corners, with necessary construction joints, curing etc. including cost of all materials, transportation, loading, unloading, curing, lift, labour, T&P, taxes, duties, levies, octroi, royalties, etc. complete as per direction of Engineerin-charge										
	boiler room	1	14.750	20.150			=	297.213	Sqm		
		8	20.150	1.200			=	193.440	Sqm		
		8	14.750	1.200			=	141.600	Sqm		
						Grand Total	=	632.253	Sqm		
									,		
	Providing, supplying and laying										
	soaking the tiles in water, unde materials etc. to be considered	•					•	_			
	I	so as to get outlet of plu hing and cleaning polish v	m bing / sa nita with oxa lic aci	ary fitting a d, indudin etc. comp	at the jun	ction of floor t all materials, t	tile), with variansporta	white cemen tion, curing,			
	materials etc. to be considered pointing in joints including was	l so as to get outlet of plu hing and cleaning polish v P, taxes, duties, levies, oct	mbing/sanita with oxalic aci troi, royalties, 20.150	ary fitting and distribution of the confidence o	at the jun	ction of floor t all materials, t	tile), with variansporta	white cemen tion, curing, in-charge	t Sqm		
	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P	l so as to get outlet of plu hing and cleaning polish v P, taxes, duties, levies, oct	m bing / sanita with oxalic aci troi, royalties,	ary fitting a d, indudin etc. comp	at the jun	ction of floor t all materials, t er direction of	rile), with variansporta	white cemen tion, curing, in-charge 193.440 141.600	t		
	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P	l so as to get outlet of plu hing and cleaning polish v P, taxes, duties, levies, oct	mbing/sanita with oxalic aci troi, royalties, 20.150	ary fitting and distribution of the confidence o	at the jun	ction of floor t all materials, t	cile), with variansporta Engineer-	white cemen tion, curing, in-charge	t Sqm		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room	l so as to get outlet of plui hing and cleaning polish v p, taxes, duties, levies, oct 8 8	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750	ary fitting a d, indudin etc. comp 1.200 1.200	at the jun ng cost of a plete as pe	ction of floor t all materials, t er direction of G.Total	ransporta Engineer- = = =	white cemention, curing, in-charge 193.440 141.600 335.040	Sqm Sqm Sqm		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyi	so as to get outlet of plui hing and cleaning polish v p, taxes, duties, levies, oct 8 8 8	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750	ary fitting and induding etc. composition of the co	at the jun ag cost of a plete as pe	ction of floor to all materials, to all materials, to all materials. G.Total ats above and	eile), with varansporta Engineer- = = = = below plir	white cemention, curing, in-charge 193.440 141.600 335.040 This level with	Sqm Sqm Sqm		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyicement motar 1:4 (1 cement: 4	so as to get outlet of pluishing and cleaning polishing, taxes, duties, levies, octable 8 8 8 10 11 12 13 14 15 15 15 15 16 16 17 18 18 18 18 18 18 18 19 19 19	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co	1.200 1.200 nd level, a	at the jun ng cost of a plete as pe	G.Total above and s, moulds, pat	eile), with veransporta Engineer- = = = = below plintas, groov	white cemen tion, curing, in-charge 193.440 141.600 335.040 The level with level, etc. indu	Sqm Sqm Sqm		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applying cement motar 1:4 (1 cement: 4 scaffolding, curing, finishing sm	so as to get outlet of pluishing and cleaning polishing, taxes, duties, levies, octable 8 8 8 1 sand 12mm thick cement pluishing 12mm thick cement pluishing 12mm, contable to walls, beams, contable the plaster surface	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co	1.200 1.200 nd level, a clumn, pa	at the jun ag cost of a plete as pe	G.Total above and s, moulds, pat shows cement	eile), with veransporta Engineer- = = = = below plintas, groov t paste), a	white cemention, curing, in-charge 193.440 141.600 335.040 The level with res, etc. induind chipping to	Sqm Sqm Sqm ding		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyicement motar 1:4 (1 cement: 4	so as to get outlet of pluishing and cleaning polishing, taxes, duties, levies, octable and serious se	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co shall be trow sportation, lift	1.200 1.200 nd level, a clumn, paeled till th, loading,	at the jun ag cost of a plete as pe at all heigh rdis, bend e surface unloading	G.Total above and s, moulds, pat shows cement	eile), with veransporta Engineer- = = = = below plintas, groov t paste), a	white cemention, curing, in-charge 193.440 141.600 335.040 The level with res, etc. induind chipping to	Sqm Sqm Sqm ding		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyicement motar 1:4 (1 cement: 4 scaffolding, curing, finishing sm concrete at all levels including of	so as to get outlet of pluishing and cleaning polishing, taxes, duties, levies, octable and serious se	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co shall be trow sportation, lift	1.200 1.200 nd level, a clumn, paeled till th, loading,	at the jun ag cost of a plete as pe at all heigh rdis, bend e surface unloading	G.Total above and s, moulds, pat shows cement	eile), with veransporta Engineer- = = = = below plintas, groov t paste), a	white cemention, curing, in-charge 193.440 141.600 335.040 The level with res, etc. induind chipping to	Sqm Sqm Sqm ding		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyicement motar 1:4 (1 cement: 4 scaffolding, curing, finishing sm concrete at all levels including duties, levies, octroi, royalties experience.	so as to get outlet of pluishing and cleaning polishing polishing polishing polishing polishing polishing polishing and cleaning polishing and pluishing 12mm thick cement plus sand) to walls, beams, concort (the plaster surface cost of all materials, transfetc. complete as per direct.	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co shall be trow sportation, lift	1.200 1.200 1.200 nd level, a clumn, paeled till th, loading, eer – In-Ch	at the jun ag cost of a plete as pe at all heigh rdis, bend e surface unloading	G.Total above and s, moulds, pat shows cement	t paste), with veransporta Engineer- = = = below plintas, groov t paste), a	white cemention, curing, in-charge 193.440 141.600 335.040 The level with res, etc. induind chipping to adopt ants, tax	Sqm Sqm Sqm ding he		
17	materials etc. to be considered pointing in joints including was loading, unloading, labour, T&P dado of laboratory room Providing, supplying and applyicement motar 1:4 (1 cement: 4 scaffolding, curing, finishing sm concrete at all levels including duties, levies, octroi, royalties experience.	so as to get outlet of pluiching and cleaning polish very taxes, duties, levies, octains a series of the series of	mbing / sanita with oxalic aci troi, royalties, 20.150 14.750 laster in line a eiling, stair, co shall be trow sportation, lift tion of Engine	1.200 1.200 nd level, a clumn, pareled till th, loading, eer – In-Ch	at the jun ag cost of a plete as pe at all heigh rdis, bend e surface unloading	G.Total above and s, moulds, pat shows cement	below plir tas, groov t paste), a	white cemention, curing, in-charge 193.440 141.600 335.040 The level with res, etc. indured plants, taxing and plants.	Sqm Sqm Sqm ding		

beam 8 5.750 0.350 = parapet 2 20.150 0.450 = columns 2 14.750 0.450 = columns 32 1.200 1.000 = chazha 34 1.700 0.700 = Grand Total =	16.100 18.135 13.275 38.400 40.460	Sqm Sqm Sqm Sqm
columns 32 1.200 1.000 = ch a zha 34 1.700 0.700 = Grand - - -	38.400	Sqm
chazha 34 1.700 0.700 = Grand -		
Grand	40.460	Sam
Total =		
	1696.870	Sqm
Providing supplying and applying two or more coats of weather coats emulsion paint (water based) of approved Royale Luxury Asian, Berger/Dulux"including cost of finishing existing wall surface with one more coats of wall provided to the coats of the co		
Qty as		
per = 17	1696.87	Sqm
G. Total =	1696.87	Sqm
4 20.150 0.150 = 4 14.750 0.150 =	12.09	Sqm Sqm
Total =	20.94	Sqm
C) SUPER STRUCTURE(W OOD WORKS & STEEL WORKS)	•	
Providing, supplying & fixing in position INDAL make aluminium windows, Doors & ventilator fixed type or partly open ble type (fabricated as per architect's design) jointed, metered with aluminium lugs embedded in cement 150x100x100mm of mix 1:2: 4 (1 cement: 2 coarse sand: 4 hard granite stone, 19mm and down grade) includin approved quality plain 5mm thick glass fixed with all accessories like gaskets, handled hinges, locking arranger complete. Including cost of all materials, transportation, loading, unloading labour T&P, taxes, duties, levies, occomplete as per direction of Engineer-in-charge.	concrete bloog g glazing with nents fittings	cks etc.
window 17 1.500 1.500 =	38.250	Sqm
doors 9 1.500 2.500 =	33.750	Sqm
G.Total =	72.000	Sqm
		<u> </u>

21	Providing, fabricating and fixing in position, grills, railing steel ladder etc. of MS sections as per architect's details including cutting, electrical arc welding, grinding to smooth surface, fixing with holdfast of MS sections of minimum size 25 mm X 3 mm X 10 cm long, embedded in cement concrete 1:2:4 (1 part cement:2 part coarse sand:4 part of HG stone aggregate 12 mm and down), blocks of 15 cm X 15 cm X 23 cm at maximum 1 c/c, anchor bolts etc including 2 coats of first quality synthetic enamel paint of make J&N /									
	15 cm X 15 cm X 23 cm at max Shalimar /British / Asian and a loading, unloading, labour, too	pproved shade, over a cost of	of red oxide	primer e	tc., includ	ing cost of ma	te rials, tra	nsportation,	-	
		17	1.500	1.500	25.500		=	975.3 <i>7</i> 5	Kg	
						G. Total	=	975.3 <i>7</i> 5	Kg	
22	Providing and fixing in position	 interlocking rolling shutters	of approve	ed make o	f 18 ga uge	e,75mm wide	cold rolled	d,M.S strips	bend	
	to shape, interlocked including bearing, handles, holding dow synthetic enamel paint of mak	n bolts embedded in C.C 1:2:	4 with push	n and pull	arrangem	ent, including	2 coasts o	of 1st quality		
	synthetic enamel paint of make J&N Shalimar / British Asian and approved shade, over a coat of redoxide primeretc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer in-charge. (Measurements to be considered for payment shall be the dear size of opening plus guide channels on both									
			payment	shall be th	e dear siz		•	•		
	sides for width and 450mm on		payment s	shall be th	e dear siz		•	•		
		top for drum height)			e dear siz		olus guide	channels on	both	
		top for drum height) 4	2.150	2.800	e dear siz	e of opening p	olus guide =	channels on	both Sqm	
23	sides for width and 450mm on	top for drum height) 4 C) Water s	2.150 upply WO	2.800 RKS		e of opening p	elus guide = = =	24.080 24.080	Sqm Sqm	
23		c) Water sg stone ware pipe of approve	2.150 upply WO d first qual cement: 4	2.800 RKS ity includicoarse sai	ng all nece	G. Total	excavatio	24.080 24.080 n of trenches	Sqm Sqm s up	
23	Providing, supplying and laying to maximum 1 mtr. de pth, laying	C) Water s g stone ware pipe of approve ing 100mm thick PCC 1:4:8 (1 the pipe, in line and level, w pipe refilling of the trenches	2.150 upply WO d first qual cement: 4 ith stiffmix after testin	2.800 RKS ity includit coarse said tures of Coarse	ng all necend:8 HG st M (1:1) an uding cos	G. Total essary fittings/ cone aggregate nd jute fibers, t of all materia	excavation es of 19 mr curing en ols, transport	24.080 24.080 nof trenches as downgracasing with 1	Sqm Sqm s up a de d)	
23	Providing, supplying and laying to maximum 1 mtr. depth, laying as bedding, laying and jointing thick PCC1:4:8 all around the	C) Water s g stone ware pipe of approve ing 100mm thick PCC 1:4:8 (1 the pipe, in line and level, w pipe refilling of the trenches	2.150 upply WO d first qual cement: 4 ith stiffmix after testin	2.800 RKS ity includit coarse said tures of Coarse	ng all necend:8 HG st M (1:1) an uding cos	G. Total essary fittings/ cone aggregate nd jute fibers, t of all materia	excavation es of 19 mr curing en ols, transport	24.080 24.080 nof trenches as downgracasing with 1	Sqm Sqm s up a de d)	

24	Providing, supplying, laying, fittin supply pipeline of TATA or equiva	•	•		•	•					
	and necessary specials & fittings with jute fiber & paints/putty M.S				_	_			-		
	bituminous paints, sand cushioni		• •		•	•					
	cost of all labour, material, trans	portation, levies, roya	lties, lead and li	ft T&P. a	II taxes an	d duties etc. c	om plete a	s per directio	on of		
	Engineer-in-charge c) -Do-as per	items no 11.02 but Fo	r 38mm dia NB	pipe							
		2	25.000				=	50.000	Rm		
						Total	=	50.000	Rm		
25	c)-Do-as per items no 11.02										
	but For 25mm dia NB pipe										
		15					=	15.000	Rm		
						Total	=	15.000	Rm		
26	c)-Do-as per items no 11.02										
	but For 20mm dia NB pipe										
		10					=	10.000	Rm		
						Total	=	10.000	Rm		
27	Providing and fixing gun metal wh	neel valve of Leader / 2	Zolooto brand f	or pipelir	es of follo	wing nominal	bores, inc	luding cost o	of all		
	Providing and fixing gun metal wheel valve of Leader / Zolooto brand for pipelines of following nominal bores, including cost of all materials, transportation, bading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-in-chargea) For 75mm Dia N.B. pipe										
		2					=	2.000	No		
						Total	=	2.000	No		
28	Providing, supplying and fixing ch	romium plated conce	aled brass heav	y-duty bil	bcœk of ES	SSCO/ Ark / Ge	m brand	ISI marked w	vith		
	chromium-plated disc. Etc. for 12	mm nominal bore pip	elines, including	g cost of a	all mate ria	ls, transportat	ion, loadir	ng, un loadin	g,		
	labour, T&P, taxes, duties, levies,	octori, royalties etc. o	ompleted as pe	r directio	on of Engin	nee r-in-charge					
		2					=	2.000	No		
						Total	=	2.000	No		
29	Providing, supplying and fixing ch	romium plated conce	aled brass heav	y-duty s to	pcock of	ESSCO/ Ark / C	Gem brand	ISI marked	with		
	chromium-plated disc. Etc. for 12 labour, T&P, taxes, duties, levies,			-		•	-	ng, unloadin	g,		
	I	2	T			Ī	=	2.000	No		

						Total	I	2.000	No		
30	Providing, supplying and fixing chromium plated concealed brass heavy-duty angle-cock of ESSCO/Ark / Gem brand ISI marked with chromium-plated disc. Etc. for 12mm nominal bore pipelines, including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-in-charge.										
		2					=	2.000	No		
						Total	=	2.000	No		
31	Providing, supplying and fixing 580mm with combined foot chalked joint overcement coorient or equivalent flush value.	rest & 100 mm sand cast CI oncrete 1:2:4 (1 ce ment: 2 c	'P' or 'S' trap o coars e sand: 4 :	of approve stone agg	ed ISI mar regate 20	k, connecting with mm and below	withexisti v) and prov	ng li ne , lead vidi ng a nd fix			
	transportation, loading, unlo					_		on of Engine	er-i		
							=	2.000	no		
						G.Total	=	2.000	no		
32	Providing, supplying and fixing or equivalent including chron				•	•			•		
32	G				•	•			in		
32	G				•	•	um plated	waste coupl	•		
32	G	mium plated angle valve, brombers of insidesize 900x90 0mm wide brick masonry we flooring (1:2: 4) with maker and 150mm thick RCC 1:2:4	Omm and deptivall, in CM 1:6 ing drain chanslab with stan	h upto 1 12 mm thi nel, return	pipe, 32 m 5 meter, F ck plaster n filing, m	G.Total Rate includes et in CM 1:4 in bedium type Cl	= = xcavation, oth inside cover weig cost of all per direct	2.000 2.000 PCC 1:4:8 ir and outside ghting 40kg materials, ion of Engine	No No of of		
	Constructing inspection char foundation 150 mm thick, 25 chamber, Indian Patent ston a pproved make with frame a transportation, loading, unlo	mium plated angle valve, brombers of insidesize 900x90 0mm wide brick masonry we flooring (1:2: 4) with maker and 150mm thick RCC 1:2:4	Omm and deptivall, in CM 1:6 ing drain chanslab with stan	h upto 1 12 mm thi nel, return	pipe, 32 m 5 meter, F ck plaster n filing, m	G.Total Rate includes et in CM 1:4 in bedium type Cl	= = xca vation, oth inside cover weig	2.000 2.000 PCC 1:4:8 ir and outside ghting 40kg imaterials,	No No No of		

34	Providing & constructing Amul to foundation concrete PCC 1:4:8 vecement punning, including providesting, back filing etc. including plants, octori, royalties etc. com	with 250mm wide brick mas iding and fixing C.I. Amul tra g cost of all materials, cost of apleted as per direction of Er	onry cham ap, and fixi f Amul trap ngine er-in-	ber with ong the And transport charge.	cement m nultrapfl tation, cu	ortar 1:6 and oush with the fring, loading,	cement pla inished flo unlæding,	aster 1:4 nea or level indu labour, tool 5.000	ding s & Nos		
35	details and requirement with no induding cutting of wall floor ar existing structure, fixing the pip	Providing, supplying and laying ISI marked pvc pipesch.40 of following sizes concealed in the structure / open as per layout as per details and requirement with necessary specials such as Y-S, T-S, offsets, plugs, bends and filling the joints with adhasive joints induding cutting of wall floor and making good the damaged portion after the work is over and pipe line is tested, to match with existing structure, fixing the pipe line with clamps and bolts etc. induding cost of all materials, transportation, loading unloading, labour, T&P, taxes, duties, levies, octroi, royalties etc. completed as per direction of Engineer-in-charge.									
						G.Total	=	100.000	Mtr		
		(D) Ro ad w									
36	Surface dressing including prepare earth work to required slope and and watering, etc. and making transportation, loading unbading charge.	nd camber including cutting og good the undulation and dis	or filling ea posal of su	rth upto 3 rplus eart	300 mm th th lead up	nickness, and o to 50 mtr. incl	consolidati uding cost	ing with road of all materia	roller als,		
	Approch road	1	10.00	2.50			=	25.0	Sqm		
	For Building Are a	1	10.00	10.00			=	100.0	Sqm		
						G. Total	=	125.0	Sqm		
37	Providing, laying, spreading and two layers of uniform thickness turfeding etc. and consolidation unloading, labour, tools & plant	and hand packing conveying with PRR including hire and	g from stac I running c	cks and sp harges of	reading fil PRR, inclu	ller (morrum) uding cost of to	overthe sa ransportat	ame and wat ion, loading,			
	Plant building approch road	1	10.00	2.500		0.300	=	7.50	Cum		
						0.7.1		= =0	C		
						G. Tota l	=	7.50	Cum		

38	Providing and fixing cast-in-situs pecified in architectural drawing	•	•	•					•		
	cast with cement concrete of 1:										
	paints, including cost of all mate Engineer in-charge	erials, transportation, loadir	ıg, unloadıı	ng, labour	r, tools & p	lants etc. con	nplete as p	erthe direct	tion of		
		1	10.00				=	10	Rmt		
						G. Total	=	10	Rmt		
39	Bitumen filling in joints of the contransportation, loading, unload Engineer-in-Charge.	•		•	•		•		•		
		1	10.00				=	10	Rmt		
						G. Total	=	10	Rmt		
40	Providing, supplying & laying in	•						•			
	M-15 or volumetric proportion						•				
	down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level at any depth below floors, plinth protection, etc. including centering and shuttering if required, laying										
	height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading,										
	unloading, labour, T&P, taxes, o		_								
		1	10.000	2.500	er directio	0.100	=	2.5	Cum		
		_				G. Total	=	2.5	Cum		
41	-Do- as per items no 2.06 but fo	or M20 or volumetric propo	tion 1:1.5	: 3 (1cem	ent: 1 1/2		3 HG crush				
	aggregates of size 20mm and do			•							
		1	10.000	2.50		0.100	=	2.50	Cum		
						G. Total	=	2.50	Cum		
	ROOFING WORKS										
42	Providing, supplying, hoisting a	nd fixing in position " Tata bl	ue scope "	' ma ke	pre-c	oated galvani	zed steel	profile sheet	ts (size		
	shape and pitch of corrugated a		. ,	•	•						
	charge) 0.5±5% mm 240mpa m	•						•			
	micron. Sheet should have prot					•			_		
	length up to 12.0 mtrs or as dire										
	with EPDM seal or with polyme	r coated Jor Lhooks bolts a	nd nuts 8n	nm diame	eter with	bitum inous ai	nd Gi limpe	etwa shers fil	lled		
	with white lead commets with			- عاد	والمسامين مو		: احتاج ما	+ : + +	:		
	with white lead compete upto and shape where ver required e	* *				-	-	-	ize		

	smooth surface at all level for and grouting with P.C.C. (1:1 ½:3 tools & paints, taxes, duties, levi ridges plain, Flashing / Aprons, N	3 or M-20) all complete. in es, lift, octroi, royalties et	duding cost c. complete	of all mat as per dir	terials, tra ection of E	nsportation, l	oading, un	loading, labo	our,
		1.250	20.150	14.750			=	371.52	Sqm
						G. Total	=	371.52	Sqm
43									
		3.800	20.150	14.750			=	76.57	Qtl
		•				G. Total	=	76.57	Qtl

ESTIMATION FOR MILK PROCESSING PLANT

Sl.No.	Description of items	Quantity	Unit	Rate		Amount
A) FOUI	 NDATION & PLINTH					
1	Excavation in all types of soil including morrum, hard soil, gravelly soil or slushy soil for foundation of wall, columns, plinth beams, basement, rail ducts, trenches, underground sumps, septic tanks etc. including shoring, strutting, bailing out water/pumping out water if required, refilling the trenches / foundation pits in layers of 150mm to 200mm, ramming, watering consolidating removing and stack-ing simultaneously the surplus excavated stuffas directed within the site area upto a lead of 100m and or spreading the same in layers for site development and consoli-dating as directed, induding cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge.a) From exiting ground level upto 1.5 M depth.	123.688	Cum	Rs.99.89	=	Rs.12,355.07
2	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm induding watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engineer-in-charge.	82.45867	Cum	Rs.72.04	=	Rs.5,940.01
	Filling and other decreases and another about hear aligned.					
3	Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm induding watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engineer-in-charge.	41.22933	Cum	Rs.72.04	=	Rs.2,970.00

4	Providing, supplying and filling approved local sand by mechanical / manual means for land development etc., in low land area, foundation, trenches, & plinth foundation areas, and foundation surrounding areas in layers of 150mm to 200mm including watering, ramming and consolidating, transportation, freight, loading, unloading, labour, T&P, taxes, octori, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-in-charge.	201.646	Cum	Rs.289.29	=	Rs.58,333.84
5	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for volumetric proportion 1:3:6 (1cement: 3 coarse sand: 6 HG stone crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walk, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.	56.106	Cum	Rs.4,505.94	=	Rs.2,52,811.31

6	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid & smooth shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and induding cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer –In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, lintels, window sills, coping, walb, para pet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and under ground water tanks, culverts etc. at different levels in any shape as per structural designand as directed	423.480	Sqm	Rs.100.49	=	Rs.42,555.87
7	Providing, supplying & laying in position machine mixed and machine vibrated cement concrete of controlled grades of specified volumetric proportions, for reinforcement cement concrete structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window silk, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as per structural design and as directed in specified compressive strength expressed in N/sqmm at 28 days as per I.S: 456-1978 using 20mm and down size of hard crusher broken black granite aggregates, necessary lift and lead finishing concrete surfaces, and for volumetric proportion 1:1 1/2:3 (1 cement: 11/2: coarse sand: 3 HG stone aggregates of size 20mm) and down concrete in ground and plinth etc. excluding cost of centering and shuttering/centering & reinforcement and including cost of all material but excluding	62.954	Cum	Rs.6,621.36	=	Rs.4,16,838.69

8	cost of reinforcement and including cost of curing, transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. Providing, fabricating and fixing in positionsteel reinforcement for RCC structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, mullions, overhead and under ground water tanks, road pavement, kerbs, culverts, etc. at different levels in any shape as per structural design and drawing and as directed and specified, as per design at all levels including lift and loading, unloading & transporting steel within site premises from departmental store to the work site, unloading and incidental charges for handling,	66.101	Qtl	Rs .6,816.59	=	Rs .4,50,585 .41
	cutting, bending and binding at all height and floor with 16 gauge GI wire (to be supplied by the contractor at his own cost), welding if necessary etc., labour, T&P complete as per direction of Engineer-in-charge. Pre-measurement will be made on the length basis and converted into weight by using standard IS co-efficient with Tor steel bars					
9	Providing, supplying and constructing brick masonry in CM 1:6 (1 cement: 6 coarses and) in foundation and upto plinth level with 1st class quality approved KB bricks having minimum crushing strength 70kg/sqcm induding soaking the bricks in water vat for 24hoursbefore use in foundation at all levels below and upto highest plinth level, all necessary scaffolding, racking out the joints, including cost of all materials, transportation, curing, bading, unloading, labour, T&P taxes, duties, levies, octroi royalties etc. complete as per direction of Engineer in-charge.	49.553	Cum	Rs .4,010.63	=	Rs.1,98,736.76

10	Providing, supplying and laying 25mm thick damp proof course in volumetric proportion of 1:2:4 with 20mm and down HG aggregates in plinth or G.L. including necessary centering and shuttering, providing and applying bitumen @1.7 kg/Sqm after curing is over, (the surface should be properly cleaned with brush and finally with a piece of cloth soaked in kerosene oil. Bitumen should be applied uniformly all over so that no blank spaces are left anywhere) including cost of all materials, transportation, loading, unloading, curing, labour, T&P taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer in-charge.	61.075	Sqm	Rs .218 .08	=	Rs.13,319.11
		TOTA	L COST (FO	OUNDATION & PLINTH)	=	Rs.14,54,446.07
B) SUP I	ER STRUCTURE (BRICK MASONARY & CONCRETE WORKS)					
11	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid & smooth shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and induding cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, intels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and under ground water tanks, culverts etc. at different levels in anyshape as per structural designand as directed	659.583	Sqm	Rs.100.49	п	Rs.66,282.01

12	-Do- as per RCC of plinth but for volumetric proportion 1:1 1/2:3 (1cement: 11/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level above highest plinth evel.upto 1st floor	28.313	Cum	Rs .6,621.36	=	Rs.1,87,467.32
13	-Do- as per items no above 8.0 but in superstructure at all height above highest plinth level upto all height upto 6.0 M(Ground floor)	116.063	Cum	Rs.4,053.63	=	Rs .4,70,474 .77
	TOTAL SUPER STRUCTURE	(BRICK MA	SONAY AN	ND CONCRETE WORKS)	=	Rs.7,24,224.10
C) SIPE	R STRUCTURE(FINISHING WORKS)					
14	Supplying and mixing with cement for cement concrete/cement mortar, water proofing compound of Posroc, Sika, Cico, or any equivalent approved brand as per the requirements and manufacturer's specifications including cost of all materials, transportation, loading, unloading, labour T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer—In-Charge.	178.171	Kg	Rs.30.00	=	Rs.5,345.14
15	Providing, supplying and laying at all levels 32mm thick IPS flooring and dado & skirting 100mm to 1500mm height, with PCC 1:2:4 (1: cement, 2: coarse sand, 4: HG stone aggregates) neat cement punning on top chequered / smooth finish induding rounding off the junction and corners, with necessary construction joints, curing etc. including cost of all materials, transportation, loading, unloading, curing, lift, labour, T&P, taxes, duties, levies, octroi, royalties, etc. complete as per direction of Engineer in-charge	632.253	Sqm	Rs.508.29	=	Rs .3,21,369 .52
16	Providing, supplying and laying 6mm thickglazed æramic tile coloured / white of size 200x450mm or 300x300 of approved	335.04	Sqm	Rs.557.08	=	Rs .1,86,643 .76

17	labour, T&P, taxes, duties, levies, octroi, royalties, etc. complete as per direction of Engineer-in-charge Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement motar 1:4 (1 cement: 4 sand) to walls, beams, ceiling, stair, column, pardis, bends, moulds, pattas, grooves, etc. including scaffolding, curing, finishing smooth (the plaster surface shall be troweled till the surface shows cement paste), and chipping the concrete at all levels induding cost of all materials, transportation, lift, loading, unloading, curing, labour, tools and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer—In-Charge	1696.870	Sqm	Rs.125.36	=	Rs.2,12,715.94
18	Providing supplying and applying two or more coats of weather coats emulsion paint(water based) of approved make and shade of Royale Luxury Asian, Berger/Dulux"incluidind cost of finishing existing wall suface with one more coats of wall primer (water base	1696.870	Sqm	Rs.53.93	=	Rs.91,515.06

19	Providing supplying and fixing 24-gauge chicken wire mesh at the junction of brick masonry and R.C.C. work or any other place with at all height upto 6M above plinth level, rawl plug. in line and level complete. including cost of all material, transportation, loading, unloading, labours, tools and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer – In-Charge.	20.940	Sqm	Rs.150.00	=	Rs.3,141.00
	TO	OTAL SUPER	STRUCTU	JRE(FINISHING WORKS)	=	Rs.8,20,730.43
C) Q IPE	 : R STRUCTURE(WOOD WORKS & STEEL WORKS)					
C, 30. L	in a macroniz (11 add 11 am a a 1 z z z 11 am a a 1			<u> </u>		
20	Providing, supplying & fixing in position INDAL make alluminium windows, Doors & ventilator fixed type or partly fixed or partly openble type (fabricated as per architect's design) jointed, mitered with alluminium lugs embedded in cement concrete blocks 150x100x100mm of mix 1:2:4 (1 cement: 2 coarse sand: 4 hard granite store, 19mm and down grade) including glazing with approved quality plain 5mm thick glass fixed with all accessories like gaskets, handled hinges, locking arrangements fittings etc. complete. Including cost of all materials, transportation, load-ing, unloading, labour T&P, taxes, duties, levies, octroi, royalties, etc. complete as per direction of Engineer-in-charge.	72.000	Sqm	Rs .2,875.57	=	Rs.2,07,041.16
21	Providing, fabricating and fixing in position, grills, railing steel ladder etc. of MS sections as per architect's details including cutting, electrical arc welding, grinding to smooth surface, fixing with holdfast of MS sections of minimum size 25 mm X 3 mm X 10 cm long, embedded in cement concrete 1:2:4 (1 part cement:2 part coarse sand:4 part of HG stone aggregate 12 mm and down), blocks of 15 cm X 15 cm X 23 cmat maximum 1 c/c, anchor bolts etc. including 2 coats of first quality synthetic enamel paint of make J&N/Shalimar/	9.754	QTL	Rs .6,859.71	=	Rs . 66, 907 . 88

	British / Asian and approved shade, over a cost of red oxide primer etc., including cost of materials, transportation, loading, unloading, labour, tools, & plants, taxes, duties, levies, octroi, royalties etc. as per direction of Engineer-in-Charge.					
22	Description and finite also we also as to be also a soliton and the soliton an					
22	Providing and fixing in position interlocking rolling shutters of approved make of 18 gauge, 75 mm wide cold rolled, M.S					
	strips bend to shape, interlocked including top cover of 18 gauge MS sheet, springs, axles, guide rails of 75mm width each tees, iron pulleys, bearing, handles, holding down bolts embedded in C.C 1:2:4 with push and pull arrangement,					
	induding 2 coasts of 1st quality synthetic enamel paint of					
	make J&N Shalimar / British Asian and approved shade, over a coat of red oxide primer etc. including cost of all materials,	24.080	Sqm	Rs .2,215.69	=	Rs.53,353.71
	transportation, loading, unloading, labour, T&P, taxes, duties,					
	levies, octroi, royalties etc. complete as per direction of					
	Engineer in-charge. (Measurements to be considered for					
	payment shall be the dear size of opening plus guide channels on both sides for width and 450mm on top for					
	drum height)					
	<u> </u>	PER STRUCT	URE(WOC	DD AND STEEL WORKS)	=	Rs.3,27,302.75
C) Wate	rsupply WORKS		-		•	
23	Providing, supplying and laying stone ware pipe of approved first quality including all necessary fittings /exca vation of trenches upto maximum 1 mtr. depth, laying 100mm thick PCC 1:4:8 (1 cement: 4 coarse sand:8 HG stone aggregates of					
	19mm & down graded) as bedding, laying and jointing the					
	pipe, in line and level, with stiff mixtures of CM (1:1) and jute	70.000	Rmt	Rs.329.11	=	Rs.23,037.88
	fibers, curing encasing with 150mm thick PCC 1:4:8 all around the pipe refilling of the trenches after testing etc. including					
	cost of all materials, transportation, loading, unloading					
	la bour T&P, taxes duties levies, octroi, royalties etc.					
	completed as per direction of Engineer-in-charge.					

24	Providing, supplying, laying, fitting & fixing concealed underground / overhead / open structure, water line of GI "B" class water supply pipeline of TATA or equivalent brand with ISI mark of following nominal bores, at all level, induding all necessary excavation and necessary specials & fittings like union bends short pieces, making zaries, making holes, cutting floor, tread, cutting, jointing with jute fiber & paints/putty M.S. fixing clamps etc or jointed by electrical welding and painting with two coat of anti-corrosive bituminous paints, sand cushioning and covering with sand after checking GI specials and fittings refilling of trenches etc. including cost of all labour, material, transportation, levies, royalties, lead and lift T&P. all taxes and duties etc. complete as per direction of Engineer-in-charge c)-Do- as per items no 11.02 but For 38 mm dia NB pipe	50.000	Rmt	Rs.277.77	=	Rs.13,888.72
25	c)-Do- as per items no 11.02 but For 25mm dia NB pipe	15.000	Rmt	Rs.277.77	=	Rs.4,166.62
26	c)-Do-as per items no 11.02 but For 20mm dia NB pipe	10.000		2 402 02		5 400006
20	cy-bo- as per items no 11.02 but for 2011im dia NB pipe	10.000	Rmt	Rs.182.23	=	Rs.1,822.26
26			No	Rs.817.80	=	Rs.1,635.60

28	Providing, supplying and fixing chromium plated concealed brass heavy-duty bibcock of ESSCO/ Ark / Gem brand ISI marked with chromium-plated disc. Etc. for 12 mm nominal bore pipelines, including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-incharge.	2.000	No	Rs.549.30	=	Rs.1,098.60
29	Providing, supplying and fixing chromium plated concealed brass heavy-duty stopcock of ESSCO/ Ark /Gem brand ISI marked with chromium-plated disc. Etc. for 12mm nominal bore pipelines, including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-incharge.	2.000	No	Rs.491.06	=	Rs.982.13
30	Providing, supplying and fixing chromium plated concealed brass heavy-duty angle-cock of ESSCO/ Ark / Gem brand ISI marked with chromium-plated disc. Etc. for 12 mm nominal bore pipelines, including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-incharge.	2.000	No	Rs.491.06	=	Rs.982.13
31	Providing, supplying and fixing first quality Hindustan /Neycer / Cera or equivalent white glazed vitre ous china W.C Orissa pan size 580mm with combined foot rest & 100mm sand cast CI 'P' or 'S' trap of approved ISI mark, connecting with existing line, lead chalked joint over cement concrete 1:2:4 (1 cement: 2 coarse sand: 4 stone aggregate 20mm and below) and providing and fixing orient or equivalent flush valve induding cutting and making good the walls and floors etc. induding cost of all materials, transportation, loading, unloading, labour, T&P taxes, duties, levies, octroi, royalties etc. completed as per direction of Engine er-in-charge.	2.000	Nos	Rs.1,318.92	=	Rs.2,637.83

32	Providing, supplying and fixing large flat back white glazed first quality lipped urinal of approved make such as Hindustan / Neycer or equivalent including chromium plated angle valve, brass CP spreader and CP pipe, 32mm dia chromium plated waste couplin	2.000	nos	Rs.741.56	=	Rs.1,483.13
33	Constructing inspection chambers of insidesize 900x900mm and depth upto 1.5 meter, Rate includes excavation, PCC 1:4:8 in foundation 150mm thick, 250mm wide brick masonry wall, in CM 1:6 12mm thick plaster in CM 1:4 in both inside and outside of chamber, Indian Patent store flooring (1:2:4) with making drain channel, return filing, medium type CI cover weighting 40kg of approved make with frame and 150mm thick RCC 1:2:4 slab with standard reinforcement etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. completed as per direction of Engineer-in-charge.	1.000	Nos	Rs.1,556.00	=	Rs.1,556.00
34	Providing & constructing Amul trap chambers of size 450mmx450mm inside and depth upto 1.50mtr, including excavation, foundation concrete PCC 1:4:8 with 250mm wide brick masonry chamber with cement mortar 1:6 and cement plaster 1:4 neat cement punning, including providing and fixing C.I. Amul trap, and fixing the Amul trap flush with the finished floor level including testing, back filing etc. including cost of all materials, cost of Amul trap transportation, curing, loading, unloading, labour, tools & plants, octori, royalties etc. completed as per direction of Engineer-in-charge.	5.000	Nos	Rs .7,000.00	=	Rs.35,000.00

35	Providing, supplying and laying ISI marked pvc pipesch.40 of following sizes concealed in the structure / open as per layout as per details and requirement with necessary specials such as Y-S, T-S, offsets, plugs, bends and filling the joints with adhasive joints including cutting of wall floor and making good the damaged portionafter the work is over and pipe line is tested, to match with existing structure, fixing the pipe line with damps and bolts etc including cost of all materials, transportation, bading unloading, labour, T&P, taxes, duties, levies, octroi, royalties etc. completed as per direction of Engineer-in-charge. a) For 200 mm dia CI pipe.	100.000	Rmt	Rs.425.35	=	Rs.42,535.00
				Water supply	=	Rs.1,30,825.88
	(D) RCC Road					
36	Surface dressing including preparation of sub-grade of road, removing the grasses, roots etc. cutting bushes and shrub bringing earth work to required slope and camber including cutting or filling earth up to 300 mm thickness, and consolidating with road roller and watering, etc. and making good the undulation and disposal of surplus earth lead up to 50mtr. including cost of all materials, transportation, loading unloading, labour, T&P, taxes, duties, levies, octroi, royalties etc. completed as per direction of Engineer-in-charge.	125.000	Sqm	Rs.9.11	=	Rs.1,138.27
37	Providing, laying, spreading and compacting graded stone agreegate to wet mix macadam to sieve analysis æ per specification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering turfeding etc. and consolidation with PRR including hire and running charges of PRR, including cost of tramportation, loading, unloading, labour, tools & plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer-in-Charge	7.500	Cum	Rs.1,734.80	=	Rs .13,011.00

38	Providing and fixing cast-in-situ / precast-cement road curb (also in curvature) with M15 over 150mm thick P.C.C. 1:4:8 or as per spedified in architectural drawing, including excavation of 500 mm from ground level, of size 400 X 100 X 600, and stone shall be cast with cement concrete of 1:1.5:3 and tow stone shall be filled with cement mortar 1:6, and painting with two coats of cement paints, including cost of all materials, transportation, loading, unloading, labour, tools & plants etc. complete as per the direction of Engineer incharge	10.000	Rmt	Rs.450.00	=	Rs.4,500.00
39	Bitumen filling in joints of the concrete pavement with asphalt mixture (70% asphalt +30% sand including cost of all					
	materials, transportation, bading, unloading, labour, tools & plants, taxes, duties, levies, octroi, royalties etc. completed as per direction of Engineer-in-Charge.	10.000	Rmt	Rs.100.00	=	Rs .1,000.00
40	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for M-15 or volumetric proportion 1: 3: 6 (1cement: 3 coarsesand: 6 HG store crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.	2.500	Cum	Rs .4,185.36	=	Rs.10,463.40

41	-Do- as per items no 2.06 but for M20 or volumetric proportion 1: 1.5: 3 (1 cement: 1 1/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level	2.500	Cum	Rs .5,3 76.95	=	Rs.13,442.38
				(d)Road work	Ξ	<u>Rs.43,555.05</u>
	ROOFING WORKS					
42	Providing, supplying, hoisting and fixing in position "Tata blue scope" make pre-coated galvanized steel profile sheets (size shape and pitch of corrugated as 5% total coated thickness (TCT) zinc coating 120gs mas per IS:277 in approved by engineer — in charge)0.5±5% mm 240mpa mm steel grade, 5-7 microns epoxy primer on both side of the sheet and polymer top coats 15-18 micron. Sheet should have protective guard film of 25 microns minimum to avoid scratches in transportation and should be single length upto 12.0 mtrs or as directed. The sheet should be fixed by using self drilling / self tapping sore ws nuts of sizes 5.5x55mm with EPDM seal or with polymer coated J or L hooks bolts and nuts 8mm diameter with bituminous and GI limpet washers filled with white lead compete upto any pitch in horizontal / vertical or curved surface excluding cost of truss including cutting to size and shape where ver required etc. as per architectural drawing and design including cutting, electrical arc welding, grinding to smooth surface at all level for sheet roofing, drilling holes, welding tie with required GI 'L' hooks, nuts, washers & tar washers etc. and grouting with P.C.C. (1:1 ½:3 or M-20) all complete. including cost of all materials, trans portation, ba ding, unloading, labour, tools & paints, taxes, duties, levies, lift, octroi, royalties etc. complete as per direction of Engineer-in-Charge. (Cost includes sheet, ridges plain, Flashing / Aprons, North Light curves, Barge Board, Crimp curve, Gutter)	371.516	Cum	Rs.750.00	II	Rs.2,78,636.72

43	Providing, supplying, fabricating hoisting and fixing in position Tata" make M.S., Pipe truss for sheeting as per architectural drawing and design including cutting, electrical arc welding, grinding to smooth surface at all level, drilling holes, welding tie with required GI'L' hooks, nuts, washers & tarwashers etc. and grouting with P.C.C. (1:1 ½:3 or M-20) as per design including 2 coats of first quality synthetic enamel paint of make Asian or equivalent all complete. including cost of all materials, transportation, loading, unloading, labour, tools & paints, taxes, duties, levies, lift, octroi, royalties etc complete as per direction of Engineer-in-Charge.	76.570	Qtl	Rs .7,500.00	=	Rs .5,7 4,275 .00
				ROOFING WORKS	I .	Rs.8,52,911.72
						, ,
		TOTAL AI	MOUNT (Water supply WORKS)	=	Rs.1,30,825.88
				t of Foundation Works		
		=	Rs.14,54,446.07			
	7.10	C				5 7 24 224 4 2
	Total Amount of Super	Structure (B	nck ivi aso	nary & Concrete Work)	=	Rs.7,24,224.10
	Tota	I Amount of	Supar Stri	<u> </u> ucture(Finishing Works)	=	Rs.8,20,730.43
	iota	Amount of	Juper Jur	detal e(i illistillig works)	_	113.8,20,730.43
		=	Rs.3,27,302.75			
				CTURE(WOOD WORKS)		,
			•	Road work	=	Rs.43,555.05
		Г	1	ROOFING WORKS	=	Rs.8,52,911.72
				C		D- 42 F2005 04
			I	Ground floor	=	Rs.43,53,996.01
		=	Rs.94,750.00			
		ADD F	ON LLLCIP	RICTRIFICATION WORKS	_	N3.34,7 30.00
			l .	l		Rs.1,39,000.00
			ADD	FOR BOR EWELL WORKS	=	.13.1,33,530000

ADD FOR Drain 200 RMT @ Rs 355 per RMT	=	Rs.71,000.00					
	<u> </u>						
ADD FOR Boundary @ 300 RMT @ Rs 6200 per RMT	=	Rs.4,96,000.00					
Total Civil +Electrica	=	Rs.51,54,746 .01					
Add1% Contingency	' =	Rs. 51547.46					
Total	=	5206293.47					
Add 12% for GST	=	624755.22					
Grand total	=	5831048.68					
Say	<i>'</i> =	58,31,000					
(Rune ex Fifty eight lakh	(Rupe & Fifty eight lakhs and thirty one thousand						

SCOPE OF WORK FORVERMIN COMPOST PROCESSING SHED

Sl.No.	Description of items	Nos	L	B/D		H/D		Quantity	Unit		
	•	A) FOUN	DA TION &	PLINTH							
1	Excavation in all types of soil includ	ing morrum, hard soil,	gra ve lly sc	il or slush	y soil for f	oundation of	wall, colum	ns, plinth be	ams,		
	basement, rail ducts, trenches, und	er ground sumps, sept	ic tanks et	c. includir	ng shoring	, strutting, bai	ling out wa	ter/pumping	gout		
	water if required, refilling the trenches / foundation pits in layers of 150mm to 200mm, ramming, watering consolidating removing										
	and stack-ing simultaneously the surplus excavated stuff as directed within the site area upto a lead of 100m and or spreading the										
	same in layers for site development and consoli-dating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge.a) From exiting ground level upto 1.5 M depth.										
	column foundation-C1	10	1.200	1.200		1.000	II	14.400	Cum		
	stool columns	4	1.000	1.000		0.500	=	2.000	Cum		
	grade beam	2	23.600	0.500		0.400	=	9.440	Cum		
		2	10.000	0.500		0.400	=	4.000	Cum		
	steps ramp	1	2.000	1.500		0.150	=	0.450	Cum		
	ra mp	1	2.000	1.500		0.150	=	0.450	Cum		
						G. Total	=	30.740	Cum		
2	Filling in plinth with selected excava		-		_	•			_		
	watering, consolidating, ramming a transportation, T&P, complete as page 1		•		ncluding co	ost of exca vati	on, loading	, unloading a	and		
	Column foundation				Total	30.7	40	30.740	Cum		
	VIDE QTY 2/3 OF EXCAVATION					Total	=	20.493	Cum		
3	Filling selected excavated earth oth										
	the site (Lead not exceeding 300m)	•		-	-	-	-				
	complete as directed including cost in-charge.	of excavation, loading	, unloadin _i	g and tran	sportation	n, T&P, comple	ete as per d	irection of E	ngi ne er-		
			_		Total	30.7	74	30.740	Cum		
	VIDE QTY 1/3 OF EXCAVATION					Total	=	10.247	Cum		

	Providing, supplying and filling approved local sand by mechanical/manual means for land development etc., in low land area, foundation, trenches, & plinth foundation areas, and foundation surrounding areas in layers of 150mm to 200mm including watering,												
	ramming and consolidating, transportation, freight, loading, unloading, labour, T&P, taxes, octori, levies, royalties, spreading and												
	compacting etc. complete as per direction of Engineer-in-charge.												
	· · · · · · · · · · · · · · · · · · ·	1		4.500		0.400		2.250	C				
	column foundation-C1	10	1.500	1.500		0.100	=	2.250	Cum				
	grade beam	4	1.000	1.000		0.100	=	0.400	Cum				
		7	23.600	0.500		0.100	=	8.260	Cum				
		7	10.000	0.500		0.100	=	3.500					
	steps ramp	1	2.000	1.500		0.100	=	0.300					
	ra mp	1	2.000	1.500		0.100	=	0.300	Cum				
	ro om inner side	1	23.600	10.500		0.250	=	61.950	Cum				
						G. Total	=	76.960	Cum				
5	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for volumetric proportion 1:3:6 (1cement: 3 coarse sand: 6 HG stone crusher broken stone aggregates of size 37 mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading,												
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below	cement: 3 coarse sand: ons, below walls, hard floors, plinth protectio	. 6 HG stone o park, column n, etc. includi	rusherbro footings, su ng centerir	kenstone unkfloor, ngandsh	e aggregates of terraces, raft uttering, if rec	of size 37 mr s, roads at a quired, la yir	n and down any heightal ng, spreading) in bove g,				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per re	cement: 3 coarse sand: ons, below walls, hard p floors, plinth protectio equirement and curing	6 HG stone opark, column n, etc. includi g etc. includin	rusherbro footings, sung centerir g cost of all	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if rec s, transportat	of size 37 mr s, roads at a quired, la yir	n and down any heightal ng, spreading) in bove g,				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below	cement: 3 coarse sand: ons, below walls, hard p floors, plinth protectio equirement and curing	6 HG stone opark, column n, etc. includi g etc. includin	rusherbro footings, sung centerir g cost of all	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if rec s, transportat	of size 37 mr s, roads at a quired, la yir	n and down any heightal ng, spreading) in bove g, la bour,				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per reT&P, taxes, duties, levies, octori,	cement: 3 coarse sand: ons, below walls, hard p floors, plinth protectio e quirement and curing royalties etc. complete	6 HG stone opark, column n, etc. includi g etc. includin e as per direc	rusher bro footings, sung centerir g cost of all tion of Engi	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if rec s, transportat charge.	of size 37 mr s, roads at a quired, la yir ion, loading	m and down any heightal ng, spreading g, unloading,) in bove g, la bour,				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per reT&P, taxes, duties, levies, octori,	cement: 3 coarse sand: ons, below walls, hard floors, plinth protectio equirement and curing royalties etc. complete 10	6 HG stone of park, column n, etc. including etc. including as per direct 1.500	rusher bro footings, sung centerir g cost of all tion of Engi 1.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if rec s, transportat charge.	of size 37 mr s, roads at a quired, la yir ion, loading	m and down any heightal ng, spreading, g, unloading, 1.125) in bove g, labour, Cum				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per retail T&P, taxes, duties, levies, octori, column foundation-C1	cement: 3 coarse sand: ons, below walls, hard ploors, plinth protection equirement and curing royalties etc. complete 10 4	park, column n, etc. includi g etc. includin e as per direc 1.500 1.000	rusher bro footings, sung centering g cost of all tion of Engi 1.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if red s, transportat charge. 0.050 0.050	of size 37 mr s, roads at a quired, la yir ion, loading = =	m and down any heightal ng, spreading g, unloading, 1.125 0.200) in bove 3, la bour, Cum Cum				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per retail T&P, taxes, duties, levies, octori, column foundation-C1	cement: 3 coarse sand: ons, below walls, hard ploors, plinth protection equirement and curing royalties etc. complete 10 4 7	park, column n, etc. includin g etc. includin e as per direc 1.500 1.000 23.600	rusher bro footings, sung centering g cost of all tion of Engi 1.500 1.000 0.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if reces, transportat charge. 0.050 0.050	of size 37 mr s, roads at a quired, la yir ion, loading = = =	m and down any heightal ng, spreading g, unloading, 1.125 0.200 4.130) in bove g, labour, Cum Cum				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per rown T&P, taxes, duties, levies, octori, column foundation-C1	cement: 3 coarse sand: ons, below walls, hard ploors, plinth protections equirement and curing royalties etc. complete 4 7 7 7	6 HG stone of park, column n, etc. including etc. including as per direct 1.500 1.000 23.600 10.000	rusher bro footings, su ng centerir g cost of all tion of Engi 1.500 1.000 0.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raftuttering, if recis, transportation charge. 0.050 0.050 0.050 0.050	of size 37 mr s, roads at a quired, la yir ion, loading = = = =	m and down any heightal ng, spreading, g, unloading, 1.125 0.200 4.130 1.750) in bove 3, la bour, Cum Cum Cum				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per retained. T&P, taxes, duties, levies, octori, column foundation-C1 grade beam	cement: 3 coarse sand: ons, below walls, hard ploors, plinth protections equirement and curing royalties etc. complete 10 4 7 7 1	park, column n, etc. includin e etc. includin 1.500 1.000 23.600 10.000 2.000	rusher bro footings, su ng centerir g cost of all tion of Engi 1.500 1.000 0.500 0.500 1.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if reces, transportate charge. 0.050 0.050 0.050 0.050	of size 37 mrs, roads at a quired, la yir ion, loading = = = = = = =	n and down any heightal ng, spreading g, unloading, 1.125 0.200 4.130 1.750 0.150) in bove 3, la bour Cum Cum Cum Cum Cum				
5	volumetric proportion 1: 3: 6 (10 required thickness, for foundation plinth level, at any depth below ramming, consolidating, as per retained. T&P, taxes, duties, levies, octori, column foundation-C1 grade beam steps ramp	cement: 3 coarse sand: ons, below walls, hard ploors, plinth protections equirement and curing royalties etc. complete 10 4 7 7 1 1 1	2.6 HG stone of park, column n, etc. including etc. including etc. including as per direct 1.500 1.000 23.600 10.000 2.000 2.000	rusher bro footings, su ng centerir g cost of all tion of Engi 1.500 1.000 0.500 0.500 1.500 1.500	ken stone unk floor, ng and she I material	e aggregates of terraces, raft uttering, if reces, transportate charge. 0.050 0.050 0.050 0.050 0.050 0.050	of size 37 mrs, roads at a quired, la yir ion, loading = = = = = = = =	n and down any heightal ng, spreading g, unloading, 1.125 0.200 4.130 1.750 0.150) in bove 3, la bour, Cum Cum Cum Cum Cum Cum Cum Cum				

6	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid & smooth shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after												
	specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and including cost of												
	transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction												
	of Engineer –In-Charge.a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth												
	beam, gutter, bedblock, lintels, windowsils, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and												
	under ground water tanks, culverts			•		-	•	•					
	column footing	20	1.300	1.300		_	=	33.800	Sqm				
	pedestal	20	0.400	0.250			=	2.000	Sqm				
		20	0.650	0.250			=	3.250	Sqm				
	column up to plinth (level-0.600)	20	1.000	0.600			=	12.000	Sqm				
		20	1.400	0.600			=	16.800	Sqm				
	grade beam	3	23.600	0.350			=	24.780	Sqm				
		4	10.000	0.350			=	14.000	Sqm				
	stool columns	16	1.000	0.250			=	4.000	Sqm				
	pedestal	16	1.600	0.250			=	6.400	Sqm				
	above pedestal to to p	16	1.000	1.500			II	24.000	Sqm				
						G. Total	=	141.030	Sqm				
7	Providing, supplying & laying in pos												
	volumetric proportions, for reinforc							•					
	raft, floor, plinth beam, window sills		•		-	•	-						
	ground water tanks, culverts etc. at	•			_		•	•					
	strength expressed in N/sqmm at 28 days as per I.S: 456-1978 using 20mm and down size of hard crusher broken black granite												
	aggregates, necessary lift and lead finishing concrete surfaces, and for volumetric proportion 1:1 1/2: 3 (1 cement: 11/2: coarse												
	sand: 3 HG stone aggregates of size 20mm) and down concrete in ground and plinth etc. excluding cost of centering and shuttering /												
	centering & reinforcement and including cost of all material but excluding cost of reinforcement and including cost of curing,												
	transportation, loading, unloading,	of all materials and lab	our, T&P,	ta xes, du t	ies, levies	, octori, royalt	ies etc. con	nplete as pe	r direction				
	of Engineer –In-Charge.	20 1		1/2 2/4		1 /0	1 0 110						
	-Do- as per items no 2.06 but for M	· ·		-		1/2 coars e sar	nd: 3 HG cru	isher broker	n stone				
	aggregates of size 20mm and down	concrete at all level t	upto nignes	st plinth le	vei.								
	column foundation-C1	10	1.300	1.300		0.200	=	3.380	Cum				
		4	1.000	1.000		0.200	=	0.800	Cum				
	grade beam	3	23.600	0.250		0.300	=	5.310	Cum				

		4	10.000	0.250		0.300	=	3.000	Cum
	steps ramp	2	2.000	1.000		0.050	=	0.200	Cum
	ra mp	2	2.000	1.000		0.050	=	0.200	Cum
	room inner side	1	23.600	10.000		0.050	=	11.800	Cum
						G. Total	=	24.690	Cum
8	Providing, fabricating and fixing in precast slab, raft, floor, plinth bear overhead and under ground water and drawing and as directed and spatie premises from departmental states.	n, window sills, coping, tanks, road pavement, pecified, as per design a	walls, para kerbs, culv atall levek	apet, drop verts, etc. including	os, fins, bo at differe lift and lo	xes, gutters, font nt levels in any ading, unload	olded plate: y shape as p ing &trans	s, chajhas, m perstructura porting stee	nullions, Idesign Iwithin
	all height and floor with 16 gauge of complete as per direction of Engine using standard IS co-efficient with	er-in-charge. Pre-mea For steel bars	•				ind converte	edinto weigl	
	Vid e concrete	Qty @0.8 Qtl /Cum					17.283	Qtl	
						G total	17.283	Qtl	Qtl
			ncluding wa				=	18.147	Qtl
	Providing, supplying and constructiclass quality approved KB bricks has 24hoursbefore use in foundation a induding cost of all materials, transcomplete as per direction of Engine	ving minimum crushing tall levels below and u sportation, curing, load	gstrength pto highes	70kg/sqcn t plinth le	n including vel, all nec	g soaking the l cessary scaffol	bricks in wa ding, rackir	ter vat for ig out the joi	nts,
	brick work above grade beam	2	23.600	0.250		0.250	=	2.950	Cum
		2	10.000	0.250		0.250	=	1.250	Cum
	steps	2	2.000	1.500		0.250	=	1.500	Cum
						Total	=	5.700	Cum
10	Providing, supplying and laying 25r in plinth or G.L. including necessary surfaces hould be properly cleaned uniformly all over so that no blank labour, T&P taxes, duties, levies, or	centering and shutter with brush and finally paces are left anywhe	ing, provid with a pied re) includi	ing andar ce of cloth ng cost of	oplying bit soaked ir all materia	tumen @1.7 kg n kerosene oil. als, transporta	g/Sqm after . Bitumen sl ation, loadir	curing is ov	er, (the olied
		2	23.600	0.250			=	11.80	Sqm
		2	10.000	0.250			=	5.00	

						G. Total	=	16.800	Sqm					
	B) S	SUP ER STRUCTURE (BR	ICK MASON	ARY & CO	NCR ET E W	/O RKS)	<u> </u>							
11	Providing, supplying & fixing plyw		•	•			-							
	shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and including cost of													
	·		=				•	•						
	transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direct of Engineer –In-Charge.													
	a) For structural elements, viz. foo	•			-	•	•	. •						
	lintels, window sills, coping, walls		. •	-		ajhas, overhea	dand unde	r ground wa	iter tank					
	culverts etc. at different levels in				ected									
	plinth to roof (level-1.100)	10	1.300	4.000			=	52.000						
	lintel	2	23.600	0.300			=	14.160						
		2	10.000	0.300			=	6.000	'					
	ro of be a m	2	23.600	0.600			=	28.320	•					
		2	10.000	0.600			=	12.000	•					
	above roof columns	10	1.200	0.750			=	9.000	Sqm					
						G. Total	=	121.480	Sqm					
12	-Do- as per RCC of plinth but for						crusher br	oken stone						
	aggregates of size 20mm and dow	n) concrete at all level	above high	est plinth	level.upto	1st floor								
a	R.C.C. cols(up to Roof level)													
	C1-bcolumn(250 x350)	10	0.250	0.350		3.000	Ш	2.625	Cum					
	a bove pa rapet	10	0.250	0.350		0.750	Ш	0.656	Cum					
						G. Total	II	3.281	Cum					
b	R.C.C. Roof-Beam													
	ro of be a m	2	23.600	0.250		0.300	=	3.540	Cum					
		2	10.000	0.250		0.300	=	1.500	Cum					
	lintel	2	23.600	0.250		0.150	=	1.770	Cum					
		2	10.000	0.250		0.150	=	0.750	Cum					
	chazha	10	1.700	0.650		0.075	=	0.829	Cum					
						G. Total	=	8.389	Cum					
							_							

	inner side wall	2	23.600	0.250	2.000	=	23.600	Cum
		2	10.000	0.250	2.000	=	10.000	Cum
	a bove lintel	2	23.600	0.250	0.250	=	2.950	Cum
		2	10.000	0.250	0.250	=	1.250	Cum
	parapet	2	23.600	0.250	0.250	=	2.950	Cum
		2	10.000	0.250	0.250	=	1.250	Cum
	DOOR	-4	1.500	0.250	2.500	=	-3.750	Cum
		-1	1.200	0.250	2.500	=	-0.750	
	RX	-2	2.500	0.250	2.500	=	-3.125	Cum
	window	-10	1.500	0.250	1.500		-5.625	Cum
					Grand			
					Total	=	28.750	Cum
1.1	Supplying and mixing with com	•		SHING W ORKS)	fing compound of	f Dosmo Si	la Cica ora	ny
14	Supplying and mixing with cemequivalent approved brand as loading, unloading, labour T&P	nent for cement concrete per the requirements an	e/ cement mo	rtar, water proo er's specificatio	ns including cost o	of all mater	ials, transpo	
14	e qui vale nt approved brand as	nent for cement concrete per the requirements an	e/ cement mo id manufactur troi, royalties	rtar, water proo er's specificatio	ns including cost o	of all mater	ials, transpo	
14	e qui vale nt approved brand as	nent for cement concrete per the requirements an P, taxes, duties, levies, oc	e/cement mo id manufactur troi, royalties	rtar, water proo er's specificatio	ns including cost of sper direction of	of all mater	ials, transpo In-Charge. 51.716	rtation,
14	e qui vale nt approved brand as	nent for cement concrete per the requirements an P, taxes, duties, levies, oc Qtyvide Item of	e/cement mo id manufactur troi, royalties	rtar, water proo er's specificatio	ns including cost of sper direction of	of all mater Engineer –	ials, transpo In-Charge.	rtation, Kg Kg
14	e qui vale nt ap pro ved brand as loading, unloa ding, labour T&P	nent for cement concrete per the requirements an P, taxes, duties, levies, oc Qtyvide Item of out side plæter	e/cement mo ad manufactur troi, royalties	rtar, water proorer's specification etc. complete a	ns including cost of sper direction of Total G. Total	of all mater Engineer – = = =	51.716 51.716 54.302	Kg Kg Kg
14	equivalent approved brand as loading, unloading, labourT&P Providing, supplying and laying cement, 2: coarse sand, 4: HG junction and comers, with necessity in the comers and sample comers.	Qtyvide Item of out side plæter g at all levels 32mm thick stone aggregates) neat concessory construction joint	e/ cement mond manufacture troi, royalties f i IPS flooring a tement punnires, curing etc. i	rtar, water properties, water properties and dado & skirting on top chequincluding cost of	Total G. Total ing 100mm to 150 ered / smooth fin f all materials, train	engineer – = = = 00mm heigish includir	51.716 51.716 54.302 ht, with PCC or grounding conding, ur	Kg Kg Kg Kg 1:2:4 (1:
	equivalent approved brand as loading, unloading, labourT&P Providing, supplying and laying cement, 2: coarse sand, 4: HG	Qtyvide Item of out side plæter g at all levels 32mm thick stone aggregates) neat concessory construction joint	e/ cement mond manufacture troi, royalties f i IPS flooring a tement punnires, curing etc. i	rtar, water properties, water properties and dado & skirting on top chequincluding cost of	Total G. Total ing 100mm to 150 ered / smooth fin f all materials, train	engineer – = = = 00mm heigish includir	51.716 51.716 54.302 ht, with PCC or grounding conding, ur	Kg Kg Kg Kg 1:2:4 (1:
	equivalent approved brand as loading, unloading, labourT&P Providing, supplying and laying cement, 2: coarse sand, 4: HG junction and comers, with necessity in the comers and sample comers.	Qtyvide Item of outside plaster Qtyvide Item of outside plaster g at all levels 32mm thick stone aggregates) neat of duties, levies, octroi, roy	e/ cement mond manufacture troi, royalties F	rtar, water properts, specification etc. complete a etc. complete a etc. dado & skirting on top chequincluding cost of mplete as per d	Total G. Total ing 100mm to 150 ered / smooth fin f all materials, train	of all mater Engineer — = = 00mm heig ish includir ns portatior er in-charg	51.716 51.716 54.302 ht, with PCC of rounding on loading, ure	Kg Kg Kg Kg 1:2:4 (1: off the nloading,
	equivalent approved brand as loading, unloading, labourT&P Providing, supplying and laying cement, 2: coarse sand, 4: HG junction and comers, with necessity in the comers and sample comers.	Qtyvide Item of out side plæter g at all levels 32mm thick stone aggregates) neat cleases, levies, octroi, roy at the control out side plæter	e/ cement mond manufacture troi, royalties f IPS flooring a cement punnires, curing etc. iyalties, etc. co	rtar, water proper's specification etc. complete a and dado & skirting on top chequincluding cost of mplete as per december 10.500	Total G. Total ing 100mm to 150 ered / smooth fin f all materials, train	er in-charge	51.716 51.716 54.302 ht, with PCC or rounding on loading, under the control of th	Kg Kg Kg 1:2:4 (1: off the nloading,

			Τ						
16	Providing, supplying and applying motar 1:4 (1 cement: 4 sand scaffolding, curing, finishing smo concrete at all levels including co	to walls, beams, æiling, oth (the plaster surface s	, stair, colur shall be tro	nn, pardis weled till	s, bends, n the surfac	noulds, pattas e shows ceme	, grooves, e nt paste), a	etc. including and chipping t	the
	duties, levies, octroi, royalties et	c. complete as per direct	ion of Engir	neer – In-C	Charge				
	outer side plaster	2	23.600	3.000			=	141.600	Sq
		2	10.000	3.000			=	60.000	Sq
	inner side plaster	2	23.600	3.000			=	141.600	Sq
		2	10.000	3.000			=	60.000	So
	be am	2	23.600	0.300			=	14.160	Sq
	pa ra pe t	2	20.150	0.300			=	12.090	Sq
		2	14.750	0.300			=	8.850	Sq
	columns	32	1.200	1.000			=	38.400	Sc
	ch a zha	34	1.700	0.700			=	40.460	Sc
						Grand Total	=	517.160	Sc
17	Providing supplyingand applying Royale Luxury Asian, Berger/Dulu				•	· ·			
			Qty as						
			per	II	16			517.16	Sc
						G. Total	=	517.16	Sc
18	Providing supplying and fixing 24 all height upto 6M above plinth I unloading, labours, tools and pla	evel, rawl plug. in line ar	nd level com	plete.ind	cluding cos	t of all materi	al, transpo	rtation, loadi	ng,
		4	23.600	0.150			=	14.16	Sc
		4	10.000	0.150			=	6	Sc
						Total	=	20.16	Sc
		C) SUPER STRUCTURE(WOOD WO	RKS & ST	FEL WORL				

19	Providing, supplying & fixing in position INDAL make alluminium windows, Doors & ventilator fixed type or partly fixed or partly open ble type (fabricated as per architect's design) jointed, mitered with alluminium lugs embedded in cement concrete blocks											
	150x100x100mm of mix 1:2: 4 (1 cement: 2 coarse sand: 4 hard granite stone, 19mm and down grade) including glazing with approved quality plain 5mm thick glass fixed with all accessories like gaskets, handled hinges, locking arrangements fittings etc. complete. Including cost of all materials, transportation, loading, unloading, labour T&P, taxes, duties, levies, octroi, royalties, etc.											
	complete as per direction of Eng	ineer -in-charge.										
	window	10	1.200	1.200			=	14.400	Sqm			
	doors	2	1.500	2.500			=	7.500	Sqm			
						G.Total	=	21.900	Sqm			
20	Providing, fabricating and fixing electrical arc welding, grinding to embedded in cement concrete 1	o smooth surface, fixing w	ith holdfas	t of MS se	ections of	minimum size	25 mm X 3	3 mm X 10 cr	n long,			
	cm X 15 cm X 23 cm at maximun											
	Shalimar /British / Asian and ap unloading, labour, tools, & plant	•		•		-		•	, Ioa ding,			
		12	1.200	1.200	15.500		=	267.840	Kg			
						G. Total	=	267.840	Kg			
21	Providing and fixing in position in	 nterlocking rolling s hutter	s of approv	ved make	of 18 ga u	ge,75mm wid	le cold rolle	d,M.S strips	bend to			
	shape, interlocked including top handles, holding down bolts em	0 0					-					
	paint of make J&N Shalimar / Bri transportation, loading, unloadi	• •	-			•	•		-			
	charge. (Measurements to be co and 450mm on top for drum hei	, ,	II be the cl	ear size o	f opening	plus guide cha	annels on b	oth sides for	width			
		3	2.150	2.900			=	18.705	Sqm			
						G. Total	=	18.705	Sqm			
				100110								
		C) Wate	rsupply W	/ORKS								

	bedding, laying and jointing the pip thick PCC 1:4:8 all around the pipe	efilling of the trench	es after test	ing etc. in	cluding co	st of all mater	ials, transp	ortation, loa	
	unloading labour T&P, taxes duties	le vies, octroi, royaltion	es etc. comp	oleted as p	oer directi	on of Engineer	·-in-charge	•	
		30					=	30.000	Rmt
						Total	=	30.000	Rmt
23	Providing, supplying, laying, fitting & pipeline of TATA or equivalent bran necessary specials & fittings like unifiber & paints/putty M.S. fixing clan paints, sand cushioning and covering labour, material, transportation, lever the provided supplementation and covering labour, material, transportation, lever the provided supplementation and covering labour.	d with ISI mark of fol on bends short piece nps etc. or jointed by g with sand after che vies, royalties, lead an	lowing nomi es, ma king za electrical w ecking GI spe nd lift T&P. a	nal bores ries, mak eldingand ecials and	, at all levening holes, fittings re	el, including all cutting floor, t with two coat filling of trenc	necessary read, cutti of anti-cor hes etc. ind	excavation and excavation and excavation and except the excavation and except the excavation and except and excavation and except and excavation and except an	and with jud inous of all
	charge c) -Do- as per items no 11.02								
		2	25.000				=	50.000	Rmt
						Total	=	50.000	Rmt
24	c)-Do- as per items no 11.02 but For 25 mm dia NB pipe								
		15					=	15.000	Rmt
						Total	=	15.000	Rmt
25	c)-Do-as per items no 11.02 but For 20 mm dia NB pipe								
		10					=	10.000	Rmt
						Total	=	10.000	Rmt
26	Providing and fixing gun metal when materials, trans portation, bading, u Engine er-in-chargea) For 75 mm Dia	ınloading, labour, T&				•	•	•	
		3					=	3.000	No
						Total	=	3.000	No
27	Providing, supplying and fixing chro	mium plated conceal	led brass bea	vv-dutv k	ibcack of	FSSCO/ Ark / C	em brand	ISI marked v	wit h

		3					=	3.000	No			
						Total	=	3.000	No			
28	Providing, supplying and fixing	chromium plated concealed	l brass hea	vv-duty s to	opcock of	ESSCO/ Ark /	Gem bran	d ISI marked	with			
	chromium-plated disc. Etc. for 12mm nominal bore pipelines, including cost of all materials, transportation, loading, unloading, labour											
	T&P, taxes, duties, levies, octo								6,			
		3				J	=	3.000	No			
						Total	=	3.000	No			
29	Providing, supplying and fixing	chromium plated concealed	l brass hea	vv-dutv a n	ngle-cock o	ofESSCO/ Ark	c / Gem bra	nd ISI ma rke	d with			
	chromium-plated disc. Etc. for	·			_							
	T&P, taxes, duties, levies, octo	• •	-	•			,	G	6,			
		3					=	3.000	No			
						Total	=	3.000	No			
30	Constructing inspection chamber foundation 150 mm thick, 250rd	mm wide brick mas onry wall,	, in CM 1:6	12 mm thi	ick plaster	in CM 1:4 in	both inside	and outside	e of			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star	12 mm thi nnel, returr ndard reinf	ick plaster n filing, mo forcement	in CM 1:4 in edium type C tetc. includin	both inside Cl cover wei ng cost of al	e and outside ighting 40kg Il materials,	of of			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star	12 mm thi nnel, returr ndard reinf	ick plaster n filing, mo forcement	in CM 1:4 in edium type C tetc. includin	both inside Cl cover wei ng cost of al	e and outside ighting 40kg Il materials,	e of of eer-in-			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star	12 mm thi nnel, returr ndard reinf	ck paster n filing, mo forcement valties etc.	in CM 1:4 in edium type C tetc. includin completed a	both inside CI cover weing cost of all as per direct	e and outside ighting 40kg I materials, tion of Engin 4.000	e of of eer-in- nos			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star	12 mm thi nnel, returr ndard reinf	ck paster n filing, mo forcement valties etc.	in CM 1:4 in edium type C tetc. includin	both inside Cl cover wei ng cost of al ns per direct	e and outside ighting 40kg Il materials, tion of Engin	e of of eer-in-			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star	12 mm thi nnel, returr ndard reinf	ck paster n filing, mo forcement valties etc.	in CM 1:4 in edium type C tetc. includin completed a	both inside Cl cover wei ng cost of al ns per direct	e and outside ighting 40kg I materials, tion of Engin 4.000	e of of eer-in- nos			
30	foundation 150mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal	, in CM 1:6 drain char b with star es, levies,	12 mm thi nnel, returr ndard reinf	ck paster n filing, mo forcement valties etc.	in CM 1:4 in edium type C tetc. includin completed a	both inside Cl cover wei ng cost of al ns per direct	e and outside ighting 40kg I materials, tion of Engin 4.000	e of of eer-in- nos			
31	foundation 150 mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload charge. Surface dressing including prework to required slope and call watering, etc. and making good transportation, loading unload transportation, loading unload.	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slading, labour, T&P, taxes, duti (D) Road paration of sub-grade of road mber including cutting or filling of the undulation and dispose	work d, removing earth u al of surpli	12 mm thinnel, return dard reinfoctori, roya	forcement alties etc.	in CM 1:4 in edium type C t etc. includin completed a G.Total etc. cutting b ess, and conso	both inside Cl cover weing cost of all as per direct = = = oushes and olidating wi ng cost of a	e and outside ighting 40kg I materials, tion of Engin 4.000 4.000 shrub bringinth road rolle II materials,	e of of eer-in- nos Nos ng eart			
	foundation 150 mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload charge. Surface dressing including prework to required slope and call watering, etc. and making good transportation, loading unload charge.	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slading, labour, T&P, taxes, duti (D) Road paration of sub-grade of road mber including cutting or filling of the undulation and dispose	work d, removing earth u al of surpli	12 mm thinnel, return dard reinfoctori, roya	forcement alties etc.	in CM 1:4 in edium type C t etc. includin completed a G.Total etc. cutting b ess, and conso	both inside Cl cover weing cost of all as per direct = = = oushes and olidating wi ng cost of a	e and outside ighting 40kg I materials, tion of Engin 4.000 4.000 shrub bringinth road rolle II materials,	e of of of eer-in-nos Nos nos eart			
	foundation 150 mm thick, 250r chamber, Indian Patent stone approved make with frame an transportation, loading, unload charge. Surface dressing including prework to required slope and call watering, etc. and making good transportation, loading unload transportation, loading unload.	mm wide brick masonry wall, flooring (1:2:4) with making d 150mm thick RCC 1:2:4 slal ding, labour, T&P, taxes, dution of sub-grade of road material and dispositing, labour, T&P, taxes, duties the undulation and dispositing, labour, T&P, taxes, duties	work d, re movin ing earth u al of surpli	12 mm thinnel, return dard reinfoctori, roya	forcement alties etc.	in CM 1:4 in edium type C t etc. includin completed a G.Total etc. cutting b ess, and conso	both inside Cl cover weing cost of all as per direct = = oushes and olidating wing cost of all as per direct	e and outside ighting 40kg I materials, tion of Engin 4.000 4.000 shrub bringing throad roller II materials, ion of Engine	e of of of eer-in-nos Nos nos eart			

	Providing, laying, spreading and compacting graded stone agreegate to wet mix macadam to sieve analysis as perspecification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering											
	turfeding etc. and consolidation wunloading, labour, to ols & plants,		_	_		-	•	_	,			
	Plant building approch road	1	20.00	4.000	iipiete as	0.300	=	24.00	Cum			
	0.11					G. Total	=	24.00	Cum			
33	Providing and fixing cast-in-situ / specified inarchitectural drawing, with cement concrete of 1:1.5:3 a induding cost of all materials, tran	, including excavation of and tow stone shall be fil	500 mm fr led with ce	om groun ment mo	id level, of rtar 1:6,ar	f size 400 X 10 nd painting wi	0 X 600, an th two coat	d stone shall s of ce me nt	be cast paints,			
	in-charge			Jour, tools	ο & piants	r complete						
		1	10			0.7.1	=	10	Rmt			
34	Bitumen filling in joints of the con			/===		G. Total		10	Rmt			
	transportation, loading, unloading	g. labour, tools & plants.	taxes. duti	es. levies.	octroi, ro	valties etc. co	mple ted as	per directio	n of			
	Engine er-in-Charge.	,			l	, a.a.ee e teree I	1		_			
		1	10				= =	10	Rmt			
35	Providing, supplying & laying in po 15 or volumetric proportion 1: 3: required thickness, for foundation	1 Distion machine mixed pl 6 (1ce ment: 3 coarse sans, below walls, hard par	ain cemen nd: 6 HG st	t concrete tone crust footings, s	e in volum ner broker sunk floor,	G. Total etric proporti stone aggreg , terraces, raft	= = on (1:3:6) o gates of size	10 10 of any thickness 37mm and any heightal	Rmt Rmt ess for M down)in bove			
35	Engine er-in-Charge. Providing, supplying & laying in po	position machine mixed place of the following states o	ain cemen nd: 6 HG st k, column etc. includi c. including	t concrete cone crush footings, s ng centeri g cost of a	e in volum ner broker sunk floor, ingand sh Il materia	G. Total e tric proporti n stone aggreg , terraces, raft uttering, if red ls, transportal	= on (1:3:6) o gates of size ss, roads at quired, layin	10 10 of any thickness 37mm and any heightal ng, spreading	Rmt Rmt ess for M down)in bove			
35	Providing, supplying & laying in po 15 or volumetric proportion 1: 3: required thickness, for foundation plinth level, at any depth below flands	position machine mixed place of the following states o	ain cemen nd: 6 HG st k, column etc. includi c. including	t concrete cone crush footings, s ng centeri g cost of a	e in volum ner broker sunk floor, ingand sh Il materia	G. Total e tric proporti n stone aggreg , terraces, raft uttering, if red ls, transportat charge. 0.100	= on (1:3:6) o gates of size ss, roads at quired, layin	10 10 of any thickness 37mm and any heightal ng, spreading	Rmt Rmt ess for M down) in bove g, la bour,			
	Providing, supplying & laying in po 15 or volumetric proportion 1: 3: required thickness, for foundation plinth level, at any depth below flands ramming, consolidating, as per rea T&P, taxes, duties, levies, octori, re	1 osition machine mixed pl 6 (1cement: 3 coarsesa ns, below walls, hard par oors, plinth protection, e quirement and curing et royalties etc. complete as	ain cemen nd: 6 HG st k, column etc. includi c. including s per direct 5.000	t concrete cone crush footings, s ng centeri g cost of a tion of Eng 4.000	e in volum ner broker sunk floor, ing and sh Il materia gineer- in-	G. Total e tric proporti n stone aggreg , terraces, raft uttering, if red ls, transportat charge. 0.100 G. Total	= on (1:3:6) o gates of size s, roads at quired, layin tion, loadin	10 10 of any thickner 2 37mm and any heightaing, spreading g, unloading, 2	Rmt Rmt ess for M down) in bove g, labour, Cum Cum			
35	Providing, supplying & laying in po 15 or volumetric proportion 1: 3: required thickness, for foundation plinth level, at any depth below flands	psition machine mixed place of the following of the following of the following the following etter of the followin	ain cemen nd: 6 HG st k, column etc. includi c. including s per direct 5.000	t concrete cone crush footings, s ng centeri g cost of a tion of Eng 4.000	e in volum ner broker sunk floor, ing and sh Il materia gineer- in-	G. Total e tric proporti n stone aggreg , terraces, raft uttering, if red ls, transportat charge. 0.100 G. Total	= on (1:3:6) o gates of size s, roads at quired, layin tion, loadin	10 10 of any thickner 2 37mm and any heightaing, spreading g, unloading, 2	Rmt Rmt ess for M down) in bove g, labour, Cum Cum			
	Providing, supplying & laying in por 15 or volumetric proportion 1: 3: required thickness, for foundation plinth level, at any depth below flar a mming, consolidating, as per retal. T&P, taxes, duties, levies, octori, re-	psition machine mixed place of the following of the following of the following the following etter of the followin	ain cemen nd: 6 HG st k, column etc. includi c. including s per direct 5.000	t concrete cone crush footings, s ng centeri g cost of a tion of Eng 4.000	e in volum ner broker sunk floor, ing and sh Il materia gineer- in-	G. Total e tric proporti n stone aggreg , terraces, raft uttering, if red ls, transportat charge. 0.100 G. Total	= on (1:3:6) o gates of size s, roads at quired, layin tion, loadin	10 10 of any thickner 2 37mm and any heightaing, spreading g, unloading, 2	Rmt Rmt ess for M down) in bove g, labour, Cum Cum			

8.04	Providing, supplying, hoisting and f shape and pitch of corrugated as 50 charge) 0.5±5% mm 240mpa mm st micron. Sheet should have protecti length upto 12.0 mtrs or as directe EPDM seal or with polymer coated white lead compete upto any pitch wherever required etc. as per archi all level for sheet roofing, drilling P.C.C. (1:1 ½:3 or M-20) all complete duties, levies, lift, octroi, royalties et	% total coated thickness teel grade, 5-7 microns ve guard film of 25 midd. The sheet should be Jor L hooks bolts and in horizontal /verticatectural drawing and desholes, welding tie with te. including cost of all	ss (TCT) zings epoxy prictons mining fixed by us nuts 8mm lor curved lesign inclunted materials,	mer on bomer	120gsm as oth side of coidscratch side of cilling/sel with bituxcluding cong, electriks, nuts, wation, load	the sheet and hes in transpo f tapping scre iminous and G ost of truss in calarc weldin ashers & tar v ling, unloading	approved I d polymer to ortation and ws nuts of s GI limpet wa cluding cutt g, grinding to washers etc g, labour, to	by engineer op coats 15-1 should be stizes 5.5x55r ishers filled ting to size atto smooths. and groutinools & paints	-in 18 ingle mm with with nd shape urface at ng with , taxes,				
	Aprons, North Light curves, Barge	Ī	T .	ī	· · · · · · · · · · · · · · · · · · ·			ı	ī				
		1.250	23.600	10.500			=	309.75	Sqm				
						G. Total	=	309.75	Sqm				
8.07	Providing, supplying, fabricating ho	isting and fixing in pos	ition Tata'	ma ke M.	S., Pipe tru	uss for sheetir	ng aspera	rchite ct ural	drawing				
(A)	'L' hooks, nuts, washers & tar wash synthetic enamel paint of make Asi	Providing, supplying, fabricating hoisting and fixing in position Tata" make M.S., Pipe truss for sheeting as per architectural drawing and design including cutting, electrical arc welding, grinding to smooth surface at all level, drilling holes, welding tie with required GI 'L' hooks, nuts, washers & tar washers etc. and grouting with P.C.C. (1:1 ½:3 or M-20) as per design including 2 coats of first quality synthetic enamel paint of make Asian or equivalent all complete. including cost of all materials, transportation, loading, unloading, labour, tools & paints, taxes, duties, levies, lift, octroi, royalties etc. complete as per direction of Engineer-in-Charge.											
	3.500 23.600 10.500 = 82.6 Qtl												
						G. Total	=	82.6					

ESTIMATE FOR VERMIN COMPOST PROCESSING SHED

Sl.No.	Description of items	Quantity	Unit	Rate		Amount
A) FOUI	 NDATION & PLINTH					
1	Excavation in all types of soil including morrum, hard soil, gravelly soil or slushy soil for foundation of wall, columns, plinth beams, basement, rail ducts, trenches, under ground sumps, septic tanks etc. including shoring, strutting, bailing out water/pumping out water if required, refilling the trenches / foundation pits in layers of 150mm to 200mm, ramming, watering consolidating removing and stack-ing simultaneously the surplus excavated stuff as directed within the site area upto a lead of 100m and or spreading the same in layers for site development and consoli-dating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge.a) From exiting ground level upto 1.5 M depth.	30.74	Cum	Rs.99.89	=	Rs.3,070.59
2	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engineer-in-charge.	20.49333	Cum	Rs.72.04	=	Rs .1,476.26
3	Filling selected excavated earth other than plinth, by					
3	mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading	10.24667	Cum	Rs.72.04	II	Rs.738.13

	and transportation, T&P, complete as per direction of Engineer-in-charge.					
4	Providing, supplying and filling approved local sand by mechanical / manual means for land development etc., in low land area, foundation, trenches, & plinth foundation areas, and foundation surrounding areas in layers of 150mm to 200mm including watering, ramming and consolidating, transportation, freight, loading, unloading, labour, T&P, taxes, octori, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-incharge.	76.960	Cum	Rs.289.29	=	Rs.22,263.60
5	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for volumetric proportion 1:3:6 (1cement: 3 coarse sand: 6 HG stone crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.	19.305	Cum	Rs .4,505.94	=	Rs.86,987.14

6	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing induding rigid & smooth shuttering centering, brading & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, induding laying of polytheen over the shuttering and induding cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as perstructural design and as directed	141.030	Sqm	Rs.100.49	=	Rs.14,172.23
7	Providing, supplying & laying in position machine mixed and machine vibrated cement concrete of controlled grades of specified volumetric proportions, for reinforcement cement concrete structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground watertanks, culverts etc. at different levels in any shape as per structural design and as directed in specified compressive strength expressed in N/sqmm at 28 days as per I.S: 456-1978 using 20mm and down size of hard crusher broken black granite aggregates, necessary lift and lead finishing concrete surfaces, and for volumetric proportion 1:1 1/2:3 (1 cement: 11/2: coarse sand: 3 HG stone aggregates of	24.690	Cum	Rs .6,6 21 .3 6	П	Rs.1,63,481.44

	size 20mm) and down concrete in ground and plinth etc. excluding cost of centering and shuttering/centering & reinforcement and including cost of all material but excluding cost of reinforcement and including cost of curing, transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge.					
8	Providing, fabricating and fixing in positionsteel reinforcement for RCC structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, mullions, overheadand underground water tanks, road pavement, kerbs, culverts, etc. at different levels in any shape as per structural design and drawing and as directed and specified, as per design at all levels including lift and loading, unloading & transporting steel within site premises from departmental store to the work site, unloading and incidental charges for handling, cutting, bending and binding at all height and floor with 16 gauge GI wire (to be supplied by the contractor at his own cost), welding if necessary etc., labour, T&P complete as per direction of Engineer-in-charge. Pre-measurement will be made on the length basis and converted into weight by using standard IS co-efficient with Tor steel bars	18.147	Qtl	Rs .6,816.59	=	Rs.1,23,701.68

9	Providing, supplying and constructing brick masonry in					
	CM 1:6 (1 cement: 6 coarse sand) in foundation and up to					
	plinth level with 1st class quality approved KB bricks having minimum crushing strength 70kg/sqcm including					
	soaking the bricks in water vat for 24hoursbefore use in					
	foundationat all levels below and up to highest plinth	5.700	Cum	Rs.4,010.63	=	Rs.22,860.59
	level, all necessary scaffolding, racking out the joints, induding cost of all materials, transportation, curing,					
	loading, unloading, labour, T&P taxes, duties, levies, octroi royalties etc. complete as per direction of Engineer					
	in-charge.					
10	Providing, supplying and laying 25mm thick damp proof course in volumetric proportion of 1:2:4 with 20mm and down HG aggregates in plinth or G.L. including necessary centering and shuttering, providing and applying bitumen @1.7 kg/Sqm after curing is over, (the surface should be properly cleaned with brush and finally with a piece of cloth soaked in kerosene oil. Bitumen should be applied uniformly all over so that no blank spaces are left	16.800	Sqm	Rs.218.08	=	Rs .3,663.71
	anywhere) including cost of all materials, transportation, loading, unloading, curing, labour, T&P taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer in-charge.					
		TOT	ALCOST (FO	OUNDATION & PLINTH)	=	Rs.4,42,415.38
B) SUP E	ER STRUCTURE (BRICK MASONARY & CONCRETE WORKS)					

C) G IDE	L ER STRUCTURE(FINISHING WORKS)					
	TOTAL SUPER STRUCTU	KE (BKICK IVI	ASUNAY AN	ID CONCRETE WORKS)	=	Rs.1,84,294.53
13	-Do- as peritems no above 8.0 but in superstructure at all height above highest plinth level up to all height up to 6.0M(Ground floor)	28.750	Cum	Rs.4,053.63	II .	Rs.1,16,541.95
12	-Do- as per RCC of plinth but for volumetric proportion 1: 1 1/2: 3 (1cement: 1 1/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level above highest plinth level.upto 1st floor	8.389	Cum	Rs .6,621.36	=	Rs.55,544.95
11	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing induding rigid & smooth shuttering centering, brading & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, induding laying of polytheen over the shuttering and induding cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as per structural design and as directed	121.480	Sqm	Rs.100.49	=	Rs.12,207.63

14	Supplying and mixing with cement for cement concrete/cement mortar, water proofing compound of Posroc, Sika, Cico, or any equivalent approved brand as per the requirements and manufacturer's specifications including cost of all materials, transportation, loading, unloading, labour T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer –In-Charge.	54.302	Kg	Rs.30.00	=	Rs.1,629.05
15	Providing, supplying and laying at all levels 32mm thick IPS flooring and dado & skirting 100mm to 1500mm height, with PCC 1:2:4 (1: @ment, 2: coarse sand, 4: HG stone aggregates) neat cement punning on top chequered / smooth finish including rounding off the junction and corners, with necessary construction joints, curing etc. induding cost of all materials, transportation, loading, unloading, curing, lift, labour, T&P, taxes, duties, levies, octroi, royalties, etc. complete as per direction of Engineer in-charge	281.900	Sqm	Rs.508.29	=	Rs.1,43,287.80
16	Providing, supplying and applying 12mm thick cement plaster in ine and level, at all heights above and below plinth level with cement motar 1:4 (1 cement: 4 sand) to walls, beams, ceiling, stair, column, pardis, bends, moulds, pattas, grooves, etc. including scaffolding, curing, finishing smooth (the plaster surface shall be troweled till the surface shows cement paste), and chipping the concrete at all levels including cost of all materials, transportation, lift, loading, unloading, curing, labour, to ols and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer – In-Charge	517.160	Sqm	Rs.125.36	=	Rs.64,830.06

17	Providing supplyingand applying two or more coats of weather coats emulsion paint (water based) of approved make and shade of Royale Luxury Asian, Berger/Dulux"incluidind cost of finishing existing wall suface with one more coats of wall primer (water base	517.160	Sqm	Rs.53.93	=	Rs.27,891.31
18	Providing supplying and fixing 24-gauge chicken wire mesh at the junction of brick masonry and R.C.C. work or any other place with at all height upto 6M above plinth level, rawl plug. in line and level complete. including cost of all material, transportation, loading, unloading, labours, tools and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer—In-Charge.	20.160	Sqm	Rs.150.00	Ξ	Rs .3,024.00
		TOTALSUP	ER STRUCTU	RE(FINISHING WORKS)	=	Rs.2,40,662.22
C) G IDE	ER STRUCTURE(WOOD WORKS & STEEL WORKS)					3
6,30.1						
19	Providing, supplying & fixing in position INDAL make alluminium windows, Doors & ventilator fixed type or partly fixed or partly openble type (fabricated as per architect's design) jointed, mitered with alluminium lugs embedded in cement concrete blocks 150x100x100mm of mix 1:2: 4 (1 cement: 2 coarses and: 4 hard granites tone, 19mm and down grade) including glazing with approved quality plain 5mm thick glass fixed with all accessories like gaskets, handled hinges, locking arrangements fittings etc. complete. Including cost of all materials,	21.900	Sqm	Rs.2,875.57	П	Rs.62,975.02

20	Providing, fabricating and fixing in position, grills, railing steel ladder etc. of MS sections as per architect's details					
	induding cutting, electrical arc we ding, grinding to					
	smooth surface, fixing with holdfast of MS sections of					
	minimum size 25 mm X 3 mm X 10 cm long, embedded in					
	cement concrete 1:2:4 (1 part cement:2 part coarse					
	sand:4 part of HG stone aggregate 12 mm and down), blocks of 15 cm X 15 cm X 23 cm at maximum 1 c/c,	2.678	QTL	Rs .6,859.71	=	Rs.18,373.04
	anchor bolts etc. including 2 coats of first quality synthetic	2.070	QIL	10.0,0 33.7 1		113.10,373.01
	enamel paint of make J&N/Shalimar/British/Asian and approved shade, over a cost of red oxide prime retc.,					
	induding cost of materials, transportation, loading,					
	unloading, labour, tools, & plants, taxes, duties, levies,					
	octroi, royalties etc. as per direction of Engineer-in-					
	Charge.					
21	Durani ding and fining in a china interdediana salling					
21	Providing and fixing in position interlocking rolling shutters of approved make of 18 gauge, 75mm wide cold					
	rolled, M.S strips bend to shape, interlocked including top					
	cover of 18 gauge MS sheet, springs, axles, guide rails of					
	75mm width each tees, iron pulleys, bearing, handles,					
	holding down bolts embedded in C.C 1:2:4 with push and					
	pull arrangement, including 2 coasts of 1st quality					
	synthetic enamel paint of make J&N Shalimar / British	18.705	Sqm	Rs.2,215.69	=	Rs.41,444.40
	Asian and approved shade, over a coat of red oxide					
	primer etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies,					
	octroi, royalties etc. complete as per direction of Engineer					
	in-charge. (Measurements to be considered for payment					
	shall be the clear size of opening plus guide channels on					
	both sides for width and 450mm on top for drum height)					
	TOTAL S	UPER STRU	CTURE(WOO	D AND STEEL WORKS)	=	Rs.1,22,792 <i>A</i> 6
C) Wate	er supply WORKS					

22	Providing, supplying and laying stone ware pipe of a pproved first quality including all necessary fittings/excavation of trenches upto maximum 1 mtr. depth, laying 100mm thick PCC 1:4:8 (1cement: 4 coarse sand:8 HG stone aggregates of 19mm & down graded) as bedding, laying and jointing the pipe, in line and level, with stiff mixtures of CM (1:1) and jute fibers, curing encasing with 150mm thick PCC 1:4:8 all around the pipe refilling of the trenches after testing etc. including cost of all materials, transportation, loading, unloading labour T&P, taxes duties levies, octroi, royalties etc. completed as per direction of Engineer-in-charge.	70.000	Rmt	Rs.329.11	=	Rs.23,037.88
23	Providing, supplying, laying, fitting & fixing concealed underground / overhead / open structure, water line of GI					
	"B" class water supply pipeline of TATA or equivalent brand with ISI mark of following nominal bores, at all level, including all necessary excavation and necessary specials & fittings like union bends short pieces, making zaries, making holes, cutting floor, tread, cutting, jointing with jute fiber & paints/putty M.S. fixing clamps etc. or jointed by electrical welding and painting with two coat of anti-corrosive bituminous paints, sand cushioning and covering with sand after checking GI specials and fittings refilling of trenches etc. including cost of all labour, material, transportation, levies, royalties, lead and lift T&P. all taxes and duties etc. complete as per direction of Engine er-in-charge c) -Do-as per items no 11.02 but For 38mm dia NB pipe	50.000	Rmt	Rs.277.77	II	Rs.13,888.72
24	a) Do as paritame no 11 02 but for 25 mm die ND sins					
	c)-Do- as per items no 11.02 but For 25 mm dia NB pipe	15.000	Rmt	Rs.277.77	Ш	Rs.4,166.62

26 Pro Zol ind unl roy cha	roviding and fixing gun metal wheel valve of Leader / olooto brand for pipe lines of following nominal bores, nduding cost of all materials, transportation, loading, nloading, labour, T&P, taxes, duties, levies, octori, by alties etc. completed as per direction of Engineer-inhargea) For 75 mm Dia N.B. pipe	3.000	Rmt	Rs.182.23 Rs.817.80	=	Rs.1,822.26 Rs.2,453.40
27 Procor See 120	olooto brand for pipe lines of following nominal bores, induding cost of all materials, transportation, loading, inloading, labour, T&P, taxes, duties, levies, octori, by alties etc. completed as per direction of Engineer-inhargea) For 75 mm Dia N.B. pipe	3.000	No	Rs.817.80	=	Rs.2,453.40
27 Procor brata tax per Cor Ge 121	nduding cost of all materials, transportation, loading, nloading, labour, T&P, taxes, duties, levies, octori, by alties etc. completed as per direction of Engineer-inhargea) For 75 mm Dia N.B. pipe	3.000	No	Rs.817.80	=	Rs.2,453.40
cor bra 12i ma tax per 28 Pro cor Ge 12i	G					
cor Ge 12	oncealed brass heavy-duty bibcock of ESSCO/Ark/Gem rand ISI marked with chromium-plated disc. Etc. for 2mm nominal bore pipelines, including cost of all naterials, transportation, bading, unloading, labour, T&P, axes, duties, levies, octori, royalties etc. completed as er direction of Engineer-in-charge.	3.000	No	Rs.549.30	=	Rs.1,647.90
tax	roviding, supplying and fixing chromium plated oncealed brass heavy-duty stopcock of ESSCO/ Ark / sem brand ISI marked with chromium-plated disc. Etc. for 2mm nominal bore pipelines, including cost of all naterials, transportation, loading, unloading, labour, T&P, axes, duties, levies, octori, royalties etc. completed as er direction of Engineer-in-charge.	2.000	No	Rs.491.06	=	Rs.982.13
cor Ge 12	roviding, supplying and fixing chromium plated oncealed brass heavy-duty angle-cock of ESSCO/ Ark / iem brand ISI marked with chromium-plated disc. Etc. for 2mm nominal bore pipelines, including cost of all naterials, transportation, bading, unloading, labour, T&P,	3.000	No	Rs.491.06	=	Rs.1,473.19

	<u>y</u>	Water supply	=	Rs.55,696.08
270.000	Sqm	Rs.9.11	=	Rs.2,458.66
!	i	1	i	1

32	Providing, laying, spreading and compacting graded stone agreegate to wet mix macadam to sieve analysis & per specification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering turfeding etc. and consolidation with PRR including hire and running charges of PRR, including cost of transportation, loading, unloading, labour, tools & plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engine er-in-Charge	24.000	Cum	Rs .1,734.80	=	Rs.41,635.20
33	Providing and fixing cast-in-situ / precast-cement road curb (also in curvature) with M15 over 150mm thick P.C.C. 1:4:8 or as per specified inarchitectural drawing, induding excavation of 500 mm from ground level, of size 400 X 100 X 600, and stone shall be cast with cement concrete of 1:1.5:3 and towstone shall be filled with cement mortar 1:6,and painting with two coats of cement paints, including cost of all materials, transportation, loading, unloading, labour, tools & plants etc. complete as per the direction of Engineer in-charge	10.000	Rmt	Rs.450.00	=	Rs .4,5 00.00
34	Bitumen filling in joints of the concrete pavement with a sphalt mixture (70% as phalt + 30% sand including cost of all materials, transportation, loading, unloading, labour, tools & plants, taxes, duties, levies, octroi, royalties etc. completed as per direction of Engineer-in-Charge.	10.000	Rmt	Rs.100.00	=	Rs.1,000.00

34	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for M-15 or volumetric proportion 1: 3: 6 (1cement: 3 coarsesand: 6 HG stone crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, bading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.	2.000	Cum	Rs .4,185.36	=	Rs.8,370.72
35	-Do- as per items no 2.06 but for M20 or volumetric proportion 1: 1.5: 3 (1cement: 1 1/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level	2.000	Cum	Rs .5,376.95	=	Rs.10,753.91
				(d)Road work	=	Rs.68,718.49
	ROOFING WORKS					
36	Providing, supplying, hoisting and fixing in position "Tata blue scope" make pre-coated galvanized steel profile sheets (size shape and pitch of corrugated as 5% total coated thickness (TCT) zinc coating 120gsm as per IS:277 in approved by engineer — in charge) 0.5±5% mm 240mpa mm steel grade, 5-7 microns epoxy primer on both side of the sheet and polymer top coats 15-18 micron. Sheet should have protective guard film of 25 microns minimum to avoid scratches in transportation and should be single length upto 12.0 mtrs or as directed. The sheet should be fixed by usingself drilling / self tapping screws nuts of sizes 5.5x55mm with EPDM seal or	309.750	Cum	Rs.750.00	П	Rs.2,32,312.50

				ROOFING WORKS		K5.6,51,612.50
			Ī	DOOFING WORKS		Rs.8,51,812.50
37	Providing, supplying, fabricating hoisting and fixing in position Tata" make M.S., Pipe truss for sheeting as per architectural drawing and design including cutting, electrical arc welding, grinding to smooth surface at all level, drilling holes, welding tie with required GI 'L' hooks, nuts, was hers & tar was hers etc. and grouting with P.C.C. (1:1 ½:3 or M-20) as per design including 2 coats of first quality synthetic enamel paint of make Asian or equivalent all complete. including cost of all materials, transportation, loading, unloading, labour, tools & paints, taxes, duties, levies, lift, octroi, royalties etc. complete as per direction of Engineer-in-Charge.	82.600	Qtl	Rs.7,500.00	=	Rs .6,19,500.00
	with polymer coated J or L hooks bolts and nuts 8mm diameter with bituminous and GI limpet washers filled with white lead compete upto any pitch in horizontal / vertical or curved surface excluding cost of truss including cutting to size and shape wherever required etc. as per architectural drawing and design including cutting, electrical arc welding, grinding to smooth surface at all level for sheet roofing, drilling holes, welding tie with required GI 'L' hooks, nuts, washers & tar washers etc. and grouting with P.C.C. (1:1 ½:3 or M-20) all complete. including cost of all materials, transportation, loading, unloading, labour, tools & paints, taxes, duties, levies, lift, octroi, royalties etc. complete as per direction of Engine er-in-Charge. (Cost includes sheet, ridges plain, Flashing / Aprons, North Light curves, Barge Board, Crimp curve, Gutter)					

Foundation Works		
Total Amount of		
Super		
Structure(Brick		
Masonary &		
	_	Do 1 0 / 20 / E2
Concrete Work)	=	Rs.1,84,294.53
Total Amount of		
Super		
Structure (Hinishing		
Works)	=	Rs.2,40,662.22
		- / -/
Total SUPER STRUCTURE (WOOD WORKS)	=	Rs.1,22,792.46
Road work	=	Rs.68,718.49
		1.0.00,1 = 0.10
ROOFING WORKS	=	Rs.8,51,812.50
		,- ,
Ground floor total		Rs.19,66,391.65
Glound noor total		113.13,00,331.03
ADD FOR ELECTRICTRIFICATION WORKS	=	Rs.94,750.00
ADD FOR ELLERING THIRD WORKS		113.54,7 30.00
ADD FOR Drain 171 RMT @ Rs 355 per RMT	=	Rs.60,705.00
ADD FOR DIGITI 171 RIVIT (@ RS 333 PET RIVIT	_	NS.00,7 05.00
Total Civil + Electrical	=	Rs.21,21,846.65
Add1% Contingency	Ш	Rs. 21218.47
Total	=	Rs. 2143065.12
Add 12% GST	=	Rs. 257167.81
, , , , , , , , , , , , , , , , , , ,		51 = 51 = 51 i j
Grand total	=	2400232.93
 I Grand total	_	2700232.33

		Say		Rs. 24,00,000
		(Rupe es	Twe	nty Fourlakhs)Only

SCOPE OF WORK FOR BIOGAS PLANT FOR THERMAL APPLICATION BASED ON CATTLE DUNG FOR GENERATION OF GREEN ENERGY

Sl.No.	Description of items	Nos	L	B/D		H/D		Quantity	Unit
1	Excavation in all types of soil including basement, rail ducts, trenches, under	erground sumps, septic	tanks etc.	incl uding	shoring, s	trutting, ba	iling out wa	ter/pumpin	g out
	water if required, refilling the trenc and stack-ing simultaneously the su same in layers for site development per direction of Engineer-In-Charge	rplus exca vated stuff as and consolidating as di	directed v rected, inc	vith in the luding cos	site a rea u tof la bou	ıp to a lead	of 100mar	nd or spreadi	ng the
	column foundation-C1	1	7.500	7.500) (ii.	1.000	=	56.250	Cum
	Columnitoundationect	1	3.500	2.500		0.500	=	4.375	Cum
		1	3.500	2.300		G. Total	=	60.625	Cum
2	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading an transportation, T&P, complete as per direction of Engineer-in-charge.								and
	Column foundation VIDE QTY 2/3 OF EXCA VATION				Total	60. Tota l	.625 =	60.625 40.417	Cum Cum
3	the site (Lead not exceeding 300m)	in layers of 15cm to 20	an includin	g waterin	g, consolic	development etc., to required level, withilating, ramming and compacting etc. T&P, complete as per direction of Enginee			
					Total	60.	.625	60.625	Cum
	VIDE QTY 1/3 OF EXCA VATION					Total	=	20.208	Cum
4	Providing, supplying and filling appr foundation, trenches, & plinth foun ramming and consolidating, transpo compacting etc. complete as per dir	dation areas, and found ortation, freight, loading	ation surro g, unloading	oundingar	eas in laye	ers of 150n	nm to 200m	m including	watering,
	column foundation-C1	1	7.500	7.500		0.100	=	5.625	Cum
		1	3.500	2.500		0.100	=	0.875	Cum
						G. Total	=	6.500	Cum

5	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for volumetric proportion 1: 3: 6 (1cement: 3 coarse sand: 6 HG stone crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any heightabove plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.								
	column foundation-C1	1	7.500	7.500		0.075	=	4.219	Cum
		1	3.500	2.500		0.075	=	0.656	Cum
						G. Total	=	4.875	Cum
6	Providing, supplying & fixing plywood shuttering centering, bracing & prospectified period, cost of all material transportation, loading, unloading, direction of Engineer—In-Charge.	pping, housing, keeping l, carpentry works, nails of all materials and labo	the same i , including our, T&P, ta	n position laying of p xes, dutie	n, providin polytheen es, levies, c	g access, ar over the sh octori, roya	nd removal outtering an Ities etc. co	of the same d including o mplete as pe	after cost of er
	a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircae, plinth beam, gutter, bed blook lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and under ground water tanks, culverts etc. at different levels in any shape as perstructural design and as directed								
	column footing	1	7.500	7.500			=	56.250	•
		1	3.500	2.500		0	=	8.750	Sqm
				*1		G. Total	=	65.000	Sqm
,	Providing, supplying & laying in position machine mixed and machine vibrated cement concrete of controlled grades of specified volumetric proportions, for reinforcement cement concrete structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as per structural design and as directed in specified compressive strength expressed in N/sqmm at 28 days as per I.S: 456-1978 using 20mm and down size of hard crusher broken black granite aggregates, necessary lift and lead finishing concrete surfaces, and for volumetric proportion 1:1 1/2:3 (1 cement: 1 1/2: coarse sand: 3 HG stone aggregates of size 20mm) and down concrete in ground and plinth etc. excluding cost of centering and shuttering / centering & reinforcement and including cost of all material but excluding cost of reinforcement and including cost of curing, transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. -Do- as per items no 2.06 but for M20 or volumetric proportion 1:1 1/2:3 (1 cement: 1 1/2 coarses and: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level upto highest plinth level.								
	column foundation	1	7.500	7.500		0.400	=	22.500	Cum
	33.3				J	050			Ju

		1	3.500	2.500		0.400	=	3.500	Cum
						G. Total	=	26.000	Cum
8	Providing, fabricating and fixing in precast slab, raft, floor, plinth bea overhead and under ground wate and drawing and as directed and site premises from departmental at all height and floor with 16 gaust complete as per direction of Engin	m, window sills, coping, rtanks, road pavement, specified, as per design a store to the work site, ugg GI wire (to besupplie	walls, para kerbs, culve tall levels i nloadingar d by the co	oet, drops erts, etc. a ncluding li d incident ntractor a	, fins, boxe t different ft and load tal charges t his own o	es, gutters, levels in ar ding, unloa s for handli cost), weld	folded plate ny shape as ding & tran ng, cutting, ng if necess	es, chajhas, i perstructur isporting ste bending and aryetc., labo	mullions, al design el within I binding our, T&P
	using standard IS co-efficient with	•	our enneme w	iii be iiiau	e on the le	ingth basis	and conver	teamto was	SIIL DY
	~	te Qty @0.8 Qtl /Cum					18.200	Qtl	
						G total	18.200	Qtl	Qtl
		Total in	cluding wais	stageand	la ppi ng		=	19.110	Qtl
specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. com direction of Engineer—In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam lintels, window silk, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and under tanks, culverts etc.at different levels in any shape as per structural design and as directed								mplete as pe	er oed block
	plinth to roof	2	7.500	3.000			=	45.000	Sqm
		2	7.500	3.000			=	45.000	Sqm
		2	3.500	2.000			=	14.000	Sqm
		2	3.500	2.000			=	14.000	Sqm
						G. Total	=	118.000	Sqm
10	-Do- as per RCC of plinth but for aggregates of size 20mm and dow	• •			-		G crusher b	roken stone	
		2	6.000	0.125		3.000	=	4.500	Cum
		2	6.000	0.125		3.000	=	4.500	Cum
		2	2.000	0.100		2.000	=	0.800	Cum
		2	1.500	0.100		2.000	=	0.600	Cum
						G. Total	=	10.400	Cum

11	Supplying and mixing with cement for cement con equivalent approved brand as per the requirement	ts and manufacture	r's specifio	cations in o	cluding cost	of all mate	rials, transp	•					
	loading, unloading, labour T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer –In-Charge.												
	Qty vide Iter side plas					=	10.400	Kg					
					Total	=	10.400	Kg					
					G. Total	=	10.920	Kg					
	scaffolding, curing, finishing smooth (the plaster surface shall be troweled till the surface shows cement paste), and chipping the concrete at all levels including cost of all materials, transportation, lift, loading, unloading, curing, labour, tools and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer – In-Charge												
	outer side plaster 2	7.000	3.000			=	42.000	Sqı					
	2	7.000	3.000			=	42.000	Sqı					
	2	3.000	2.000			=	12.000	Sq					
	2	2.000	2.000			=	8.000	Sq					
					Grand								
					Total	=	104.000	Sqı					
13	Providing supplyingand applying two or more coats of weather coats emulsion paint(waterbased) of approved make and shade of Royale Luxury Asian, Berger/Dulux'incluidind cost of finishing existing wall surface with one more coats of wall primer (water base												
13													
13		of finishing existing Qty as	wall surfac	ce with or			orimer (wate	r base					
		of finishing existing											

ESTIMATE FOR BIOGAS PLANT FOR THERMAL APPLICATION BASED ON CATTLE DUNG FOR GENERATION OF GREEN ENERGY

Excavation in all types of soil including morrum, hard soil, gravelly soil or slushy soil for foundation of wall, columns, plinth beams, basement, rail ducts, trenches, underground sumps, septic tanks etc. including shoring, strutting, bailing out water/pumping out water if required, refilling the trenches / foundation pits in byers of 150mm to 200mm, ramming, watering consolidating removing and stacking simultaneously the surplus excavated stuffas directed within the site area up to a lead of 100m and or spreading the same in layers for site development and consoli-dating as directed, including cost of	60.625	Cum	Rs .99.89	=	Rs.6,055.77
labour to ds and plants, taxes etc. complete as per direction of Engine er-In-Charge.a) From exiting ground level up to 1.5 M depth.					
Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm induding watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engine er-in-charge.	40.41667	Cum	Rs . 72 . 04	=	Rs.2,911.46
Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engineer-in-charge.	20.20833	Cum	Rs.72.04	=	Rs.1,455.73
	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engine er-in-charge. Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P,	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15 cm to 20 cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engine er-in-charge. Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15 cm to 20 cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P,	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15 cm to 20 cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engine er-in-charge. Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15 cm to 20 cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P,	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm induding watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engine er-in-charge. Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P,	Filling in plinth with selected excavated earth available within site (Lead not exceeding 100m) in layers of 15cm to 20cm induding watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P, complete as per direction of Engineer-in-charge. Filling selected excavated earth other than plinth, by mechanical / manual means for land development etc., to required level, within the site (Lead not exceeding 300m) in layers of 15cm to 20cm including watering, consolidating, ramming and compacting etc. complete as directed including cost of excavation, loading, unloading and transportation, T&P,

4	Providing, supplying and filling approved local sand by mechanical / manual means for land development etc., in low land area, foundation, trenches, & plinth foundation areas, and foundationsurrounding areas in layers of 150mm to 200mm including watering, ramming and consolidating, transportation, freight, loading, unloading, labour, T&P, taxes, octori, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-in-charge.	6.500	Cum	Rs .289 29	=	Rs .1,880.37
5	Providing, supplying & laying in position machine mixed plain cement concrete in volumetric proportion (1:3:6) of any thickness for volumetric proportion 1: 3: 6 (1cement: 3 coarse sand: 6 HG stone crusher broken stone aggregates of size 37mm and down) in required thickness, for foundations, below walls, hard park, column footings, sunk floor, terraces, rafts, roads at any height above plinth level, at any depth below floors, plinth protection, etc. including centering and shuttering, if required, laying, spreading, ramming, consolidating, as per requirement and curing etc. including cost of all materials, transportation, loading, unloading, labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer-in-charge.	4.8 <i>7</i> 5	Cum	Rs .4,5 05.94	=	Rs.21,966.45

6	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid & smooth shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, naik, including laying of polytheen over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge. a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed block, lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as per structural design and as directed	65.000	Sqm	Rs .100 49	П	Rs.6,531.91
7	Providing, supplying & laying in position machine mixed and machine vibrated cement concrete of controlled grades of specified volumetric proportions, for reinforcement cement concrete structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, windowsills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground watertanks, culverts etc. at different levels in any shape as per structural design and as directed in specified compressive strength expressed in N/sqmm at 28 days as per I.S: 456-1978 using 20mm and down size of hard crusher broken black granite aggregates, necessary lift and lead finishing concrete surfaces, and for volumetric proportion 1:11/2: 3 (1 cement: 11/2: coarse sand: 3 HG stone aggregates of size 20mm) and down concrete in ground and plinth etc. excluding cost of centering and shuttering / centering & reinforcement and including cost of all material but excluding cost of reinforcement and including cost of curing, transportation, loading, unloading, of all materials and labour,	26.000	Cum	Rs.6,621.36	II	Rs .1,72,155.42

	T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer –In-Charge.					
8	Providing, fabricating and fixing in positionsteel reinforcement for RCC structural dements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, windowsills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, mullions, overheadand underground water tanks, road pavement, kerbs, culverts, etc. at different levels in any shape as per structural design and drawing and as directed and specified, as per designat all levels including lift and loading, unloading & transporting steel within site premises from departmental store to the work site, unloading and incidental charges for handling, cutting, bending and binding at all height and floor with 16 gauge GI wire (to be supplied by the contractor at his own cost), welding if necessary etc., labour, T&P complete as per direction of Engineer-in-charge. Pre-measurement will be made on the length basis and converted into weight by using standard IS coefficient with Tor steel bars	19.110	Qtl	Rs.6,816.59	=	Rs .1,30,265.03
9	Providing, supplying & fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid & smooth shuttering centering, bracing & propping, housing, keeping the same in position, providing access, and removal of the same after specified period, cost of all material, carpentry works, nails, including laying of polytheen over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octori, royalties etc. complete as per direction of Engineer—In-Charge.a) For structural elements, viz. footing foundation, columns, beams, slabs, precast slab, raft, staircase, plinth beam, gutter, bed	118.000	Sqm	Rs .100 49	=	Rs.11,857.92

	block, lintels, window sills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, overhead and underground water tanks, culverts etc. at different levels in any shape as per structural design and as directed					
10	-Do- as per RCC of plinth but for volumetric proportion 1: 1 1/2: 3 (1 ce ment: 1 1/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level above highest plinth level.upto 1st floor	10.400	Cum	Rs.6,621.36	=	Rs.68,862.17
11	Supplying and mixing with cement for cement concrete/cement mortar, water proofing compound of Posroc, Sika, Cico, or any equivalent approved brand as per the requirements and manufacturer's specifications including cost of all materials, transportation, loading, unloading, labour T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer In-Charge.	10.920	Kg	Rs.30.00	=	Rs.327.60
12	Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement motar 1:4 (1 cement: 4 sand) to walls, beams, ceiling, stair, column, pardis, bends, moulds, pattas, grooves, etc. including scaffolding, curing, finishing smooth (the plaster surface shall be troweled till the surface shows cement paste), and chipping the concrete at all levels including cost of all materials, transportation, lift, loading, unloading, curing, labour, tools and plants, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer – In-Charge	104.000	Sqm	Rs .125 36	=	Rs.13,037.21

13	Providing supplyingand applying two or more coats of weather coats emulsion paint (water based) of approved make and shade of Royale Luxury Asian, Berger/Dulux'incluidind cost of finishing existing wall suface with one more coats of wall primer (water base	104.000	Sqm	Rs.53.93	=	Rs.5,608.90
				Civil Total	=	Rs.4,42,915.95
					5 4450 46	
	Add1% Contingency				Rs. 4429.16	
	Total				Rs. 447345.11	
	Add 12% for GST				Rs. 53681 <i>A</i> 1	
	Add 12% for GST				10.00001.11	
	Grand total				Rs. 501026.53	
	Say				RS. 5,00,000	
	(Rupees Five lakhs) Only					

TENDER FORM (Construction of Common Facilities Centre, Grow Green Dairy Trust)

Tender Form is issued to:-

Date of is sue of tender form:-

(Digital signature)
Signature of issuing authority

Terms and Conditions:

- 1- The minimum turnover of the bidder firm for the last year (2018-19) should be Rs. 100.00 lakhs.
- **2-** The bidder firm should have minimum three years of experiences in building construction activity.
- **3-** The tender should be submitted in the prescribed tender form.
- 4- The tender forms can be obtained from HDF-cDAR, HIG-196 (First Floor), Kanan Vihar, Phase-I, Patia, Bhubaneswar-751024, Odisha on any working day from 29/11/2019 to 19/12/2019 between 10.00 am to 5.00 pm and up to 1200 Hrs. on 19/12/2019 by depositing an amount of Rs. 10,000/-in form of Demand Draft.
- 5- Tender form should be deposited in separate envelope containing Technical Bid and Financial Bid along with earnest money of Rs. 87000/- at above address on or before 05.00 pm of (19/12/2019). Earnest money can be paid through DD purchased in favor of HDF-cDAR, Bhubaneswar. The tender received will be opened before the Purchase committee on 23/12/2019.
- **6-** The bidder firm should submit tender for the whole works. Tender for partly works will not be accepted.
- 7- Earnest money can be forfeited in case of withdrawal of bid or not completing the work.
- **8-** If the work is not found as per specifications or unsatisfactory the payment of whole or equivalent amount can be withheld.
- 9- T.D.S. and other taxes will be deducted as per norms from the payments.
- **10-** Director, HDF-cDAR, Bhubaneswar has reserved the right to accept the bid partially/in full or may reject any or all the bids without assigning any reason.
- 11- The total approved project cost for establishment of Common Fadilities Centre is Rs. 375.73 lakhs, out of which maximum budget provisioned for construction is Rs. 87.31 lakhs. Thus financial bid of tendered firm should not exceed the maximum limit approved.

12- The maximum time frame given for completion of construction is six months. The detailed work plans as given above.
Declaration:-
I do here by agree to abide by all the terms and conditions mentioned above.
(Signature of the authorized person/proprietor)
Name:
De signation:
Name of firm:
Phone/Mob:
No. :Seal of the firm:

TENDER FORM (Construction of Common Facilities Centre, Grow Green Dairy Trust)

- 2. The Bidder Firm will submit layout plan and design for the proposed shed
- 3. A demand draft of Rs. 87,000.00 (Rs. Eighty Seven thousand) will be enclosed with the bid as earnest money. The draft will be in favor of HDF-cDAR, Bhubaneswar. Exempted bidder should submit the supporting documents.

1. The minimum turnover of last year (2018-19) of the Bidder Firm/Agency should be Rs. 100.00 Lakhs.

4. Balance Sheet prepared by charted Accounts for the last three years will invariably be endosed along with bid.

- 5. Copies of Income Tax returns for the last three years will be enclosed with bid.
- 6. Copy of PAN/Service Tax Registration Certificate will be enclosed with bid.
- 7. The profile and following details of bidder firm/agency along with photograph, paper cutting, copy of work order will be submitted as under :-

Year	Details of construction projects executed	Duration	Name of party for whom project executed
2016-17			
2017-18			
2018-19			

Year	Details of construction projects executed	Duration	Name of party for whom project executed
2016-17			
2010-17			
2017-18			
2018-19			
8. Detail of earnes	st money		
1. D.D. No. :			
2. Date:			

- 9. If the Tender Form is downloaded from the HDF-cDAR website an amount of Rs. Rs. 10,000/- is essential to be deposited. The details of suchamount:-
- 1. D.D. No.

3. Amount:

- 2. Date:
- 3. Amount:
- 4. Name of the issuing bank:

4. Name of the issuing bank:

10. Undertaking for not being black listed by any organization.

Declaration:-

I hereby declare that the information given in the bid is true and correct and I hereby accept all the terms and conditions.

Place:	
Date:	
	Signature of the authorized person Name:
	De signation :
	Name of firm & address:
	Phone / Mobile No. :
	Seal of the firm:

TENDER FORM (Construction of Common Facilities Centre, Grow green dairy trust)

Tende	Form issued to:	_	
Da te o	f issue of tender form:		
		Sign	(Digital signature nature of issuing authorit
<u>Financ</u>	ial cost		
S.No	Construction of shed for CFC	Amount Quoted	Percentage of
			high or less
1	 The amount should be quoted as per details of work given. The amount quoted should be indusive 		
	of all type of taxes as no separate payment will be made for taxes.		
Total a Place: Date:	mount in word s:-		
Date.		Signature of the Name: Designation: Name of firm Phone / Mobile	e No. :

TENDER FORM (Construction of Common Facilities Centre, Grow green dairy trust)

Tender Form issued to:	
Date of issue of tender form:	
	(Digital signature) Signature of issuing authority

1. Name of work: Construction of Shed and other amenities for the proposed CFC:

Work Plan

SI .No	Description of work	Time line (from the date of Issuance of Contract)
1	Land leveling and providing pest control treatment by Pest control India	By end of first month
3	Completion of foundation work up to ground level	By end of second month
4	Completion of side wall, fabrication work, roofing, electrical fitting, painting etc.	By end of sixth month

Note: Thus the total time for completion of construction will not exceed 6 months from date of issuance of contract

2. Mode of payment:

- Payment will be released as per the scheduled quantity executed. The measurement will be done by civil engineer and certified by charted engineering.
- Payment will be release after statutory reduction of tax component as per Govt. Odisha notification.
- 5% of the security deposit will be released one year after competition of the work.