

## ADVERTISEMENT

Ref: HDF/cDAR/SFRUTI/7466/19

Date: 29/11/2019

HDF-cDAR, HIG-196 (First Floor), Kanan Vihar, 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.

<b>Date of Commencement of Tender</b>	<b>Last date of and time of submission of tender</b>	<b>Date &amp; Time for opening of Tender</b>	<b>Cost of tender paper</b>
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](http://www.hdf.org.in) / [www.iedodisha.nic.in](http://www.iedodisha.nic.in), and the same can be submitted along with cost of tender paper in shape of Bank Draft. Any corrigendum/ addendum/ information related to this NIT will only be uploaded in HDF-cDAR website which will not be published in Newspapers. The authority reserves the right to accept / reject any part(s) of the Bid, any Bid or all the bids without assigning any reason thereof, at any point of time. The authority has the right to increase/ decrease / cancel the quantity of construction without assigning any reasons thereof.

**DIRECTOR**

**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](http://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 **licensed registered civil engineers / contractors-A class** (having minimum three years of experiences in building construction) for establishment of Common Facilities Centre at: Angargada, 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 envelopes 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](http://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**

Sl.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**

Sl.No.	Description of items	Nos	L	B/D		H/D		Quantity	Unit
<b>A) FOUNDATION &amp; PLINTH</b>									
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 stacking simultaneously the surplus excavated stuff as directed within the site area up to a lead of 100m and or spreading the same in layers for site development and consolidating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge. a) From exiting ground level up to 1.5 M depths.								
	column foundation-C1	25	1.500	1.500		1.000	=	56.250	Cum
	stool columns	13	1.000	1.000		0.500	=	6.500	Cum
	grade beam	7	14.750	0.500		0.400	=	20.650	Cum
		7	20.150	0.500		0.400	=	28.210	Cum
	steps ramp	2	2.000	1.500		0.150	=	0.900	Cum
	ramp	2	2.000	1.500		0.150	=	0.900	Cum
	silofoundation	2	7.065	1.000		0.600	=	8.478	Cum
	cable trench	1	3.000	1.200		0.600	=	1.800	Cum
						G. Total	=	123.688	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 and transportation, T&P, complete as per direction of Engineer-in-charge.								
	Column foundation				Total	123.688		123.688	Cum
	VIDE QTY 2/3 OF EXCAVATION				Total	=		82.459	Cum
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 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.								
					Total	123.688		123.688	Cum
	VIDE QTY 1/3 OF EXCAVATION				Total	=		41.229	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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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								
	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 to top	39	1.000	1.500			=	58.500	Sqm
						G. Total	=	423.480	Sqm
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 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, octroi, 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 (1cement: 1 1/2 coarsesand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at a ll level up to highest plinth level.								
	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	
	ramp	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	
<b>8</b>	<p>Providing, fabricating and fixing in position steel reinforcement for RCC structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, window sils, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, mullions, overhead and 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 &amp; 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 G wire (to be supplied by the contractor at his own cost), welding if necessary etc., labour, T&amp;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</p>									
	Vide concrete Qty @ 1.0 Qtl /Cum							62.954	Qtl	
						G total		62.954	Qtl	Qtl
							=	66.101	Qtl	
<b>9</b>	<p>Total including wastage and lapping</p> <p>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 24 hours before use in foundation at all levels below and up to highest plinth level, all necessary scaffolding, racking out the joints, including cost of all materials, transportation, curing, loading, unloading, labour, T&amp;P taxes, duties, levies, octroi royalties etc. complete as per direction of Engineer in-charge.</p>									
	brick work above grade beam	7	14.750	0.250		0.700	=	18.069	Cum	
		7	20.150	0.250		0.700	=	24.684	Cum	
	steps	2	2.000	1.500		0.250	=	1.500	Cum	
		2	2.000	1.200		0.250	=	1.200	Cum	
	silo	2	15.000	1.000		0.250	=	0.500	Cum	
	panel board foundation	2	3.000	0.250		0.900	=	1.800	Cum	
		2	1.200	0.250		0.900	=	1.800	Cum	
						Total	=	49.553	Cum	



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.								
		7	14.750	0.250			=	25.81	Sqm
		7	20.150	0.250			=	35.26	Sqm
						G. Total	=	61.075	Sqm
<b>B) SUPER STRUCTURE(BRICK MASONARY &amp; CONCRETE WORKS)</b>									
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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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								
	plinth to roof ( level-1.100)	25	1.200	4.000			=	120.000	Sqm
	lintel	7	14.750	0.300			=	30.975	Sqm
		7	20.150	0.300			=	42.315	Sqm
	roof beam	7	14.750	0.600			=	61.950	Sqm
		7	20.150	0.600			=	84.630	Sqm
	roof slab	1	20.150	14.750			=	297.213	Sqm
	above roof columns	25	1.200	0.750			=	22.500	Sqm
						G. Total	=	659.583	Sqm
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 up to 1st floor								
a	<b>R.C.C. cols(up to Roof level)</b>								
	C1-b column(250 x350)	25	0.250	0.350		3.500	=	7.656	Cum
	above parapet	25	0.250	0.350		0.750	=	1.641	Cum
						G. Total	=	9.297	Cum

b	<b>R.C.C. Roof-Beam</b>								
	roof beam	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
<b>13</b>	-Do- as per items no above 8.0 but in superstructure at all height above highest plinth level up to all height up to 6.0M( Ground floor)								
	inner side wall	4	14.750	0.250		2.500	=	36.875	Cum
		4	20.150	0.250		2.500	=	50.375	Cum
	above lintel	4	14.750	0.250		1.000	=	14.750	Cum
	parapet	4	20.150	0.250		1.000	=	20.150	Cum
		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
						<b>Grand Total</b>	=	116.063	<b>Cum</b>
<b>C) SUPER STRUCTURE(FINISHING WORKS)</b>									
<b>14</b>	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.								
		Qty vide Item of outside plaster					=	169.687	Kg
						Total	=	169.687	Kg
						G. Total	=	178.171	Kg

<b>15</b>	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 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 Engineer-in-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
						<b>Grand Total</b>	=	<b>632.253</b>	<b>Sqm</b>
<b>16</b>	Providing, supplying and laying 6mm thick glazed ceramic tile coloured / white of size 200x450mm or 300x300 of approved make such as "Johnson & Johnson or Somani brand " in dado / skirting to any height in all floors fixed with neat cement slurry after soaking the tiles in water, under layer of 12mm thick CM (1:3) mix, (The rate shall be inclusive of center point firing i.e. extra labour materials etc. to be considered so as to get outlet of plumbing / sanitary fitting at the junction of floor tile), with white cement pointing in joints including washing and cleaning polish with oxalic acid, including 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								
	dado of laboratory room	8	20.150	1.200			=	193.440	Sqm
		8	14.750	1.200			=	141.600	Sqm
						<b>G.Total</b>	=	<b>335.040</b>	<b>Sqm</b>
<b>17</b>	Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement mortar 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								
	outside plaster	2	20.150	4.500			=	181.350	Sqm
		2	14.750	4.500			=	132.750	Sqm
	inner side plaster	8	20.150	4.500			=	725.400	Sqm
		8	14.750	4.500			=	531.000	Sqm



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 / Shalimar /British /Asian and approved shade, over a coat 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.								
		17	1.500	1.500	25.500		=	975.375	Kg
						G. Total	=	975.375	Kg
22	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, axes, 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 coats 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, 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)								
		4	2.150	2.800			=	24.080	Sqm
						G. Total	=	24.080	Sqm
<b>C) Water supply WORKS</b>									
23	Providing, supplying and laying stone ware pipe of approved first quality including all necessary fittings/excavation of trenches up to maximum 1 mtr. depth, laying 100mm thick PCC 1:4:8 (1cement: 4 coarse sand:8 HG stone aggregates of 19mm & downgraded) 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.								
		10				Total	=	10.000	Rmt
							=	10.000	Rmt

<b>24</b>	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 Engineer-in-charge c) -Do-as per items no 11.02 but For 38mm dia NB pipe								
		2	25.000				=	50.000	Rmt
						Total	=	50.000	Rmt
<b>25</b>	c)-Do- as per items no 11.02 but For 25mm dia NB pipe								
		15					=	15.000	Rmt
						Total	=	15.000	Rmt
<b>26</b>	c)-Do- as per items no 11.02 but For 20mm dia NB pipe								
		10					=	10.000	Rmt
						Total	=	10.000	Rmt
<b>27</b>	Providing and fixing gun metal wheel valve of Leader / Zoloto brand for pipelines of following nominal bores, 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 a) For 75mm Dia N.B. pipe								
		2					=	2.000	No
						Total	=	2.000	No
<b>28</b>	Providing, supplying and fixing chromium plated concealed brass heavy-duty bibcock 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
<b>29</b>	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-in-charge.								
		2					=	2.000	No







<b>38</b>	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 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 in-charge								
		1	10.00				=	10	Rmt
						G. Total	=	10	Rmt
<b>39</b>	Bitumen filling in joints of the concrete pavement with asphalt mixture (70% asphalt + 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.								
		1	10.00				=	10	Rmt
						G. Total	=	10	Rmt
<b>40</b>	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 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, octroi, royalties etc. complete as per direction of Engineer- in-charge.								
		1	10.000	2.500		0.100	=	2.5	Cum
						G. Total	=	2.5	Cum
<b>41</b>	-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								
		1	10.000	2.50		0.100	=	2.50	Cum
						G. Total	=	2.50	Cum
	<b>ROOFING WORKS</b>								
<b>42</b>	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 using self drilling / self tapping screws 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 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 Engineer-in-Charge. ( Cost includes sheet, ridges plain, Flashing / Aprons , North Light curves, Barge Board , Crimp curve, Gutter )								
		1.250	20.150	14.750			=	371.52	Sqm
						G. Total	=	371.52	Sqm
<b>43</b>	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 , drillingholes, 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.								
		3.800	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
<b>A) FOUNDATION &amp; PLINTH</b>						
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 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.	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 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.	82.45867	Cum	Rs.72.04	=	Rs.5,940.01
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 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.	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, octroi, 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 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, octroi, royalties etc. complete as per direction of Engineer-in-charge.	56.106	Cum	Rs.4,505.94	=	Rs.2,52,811.31

6	<p>Providing, supplying &amp; fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid &amp; smooth shuttering centering, bracing &amp; 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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&amp;P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer –In-Charge.</p> <p>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</p>	423.480	Sqm	Rs.100.49	=	Rs.42,555.87
7	<p>Providing, supplying &amp; 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 &amp; reinforcement and including cost of all material but excluding</p>	62.954	Cum	Rs.6,621.36	=	Rs.4,16,838.69

	cost of reinforcement and including cost of curing, transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer –In-Charge.					
8	Providing, fabricating and fixing in position steel 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 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	66.101	Qtl	Rs.6,816.59	=	Rs.4,50,585.41
9	Providing, supplying and constructing brick masonry in CM 1:6 (1 cement: 6 coarse sand) in foundation and upto plinth level with 1st class quality approved KB bricks having minimum crushing strength 70kg/sqcm including soaking the bricks in water vat for 24 hours before 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
<b>TOTAL COST (FOUNDATION &amp; PLINTH)</b>					=	<b>Rs.14,54,446.07</b>
<b>B) SUPER STRUCTURE (BRICK MASONRY &amp; CONCRETE WORKS)</b>						
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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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 any shape as per structural design and as directed	659.583	Sqm	Rs.100.49	=	Rs.66,282.01

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	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 6.0M( Ground floor)	116.063	Cum	Rs.4,053.63	=	Rs.4,70,474.77
<b>TOTAL SUPER STRUCTURE(BRICK MASONAY AND CONCRETE WORKS)</b>					=	<b>Rs.7,24,224.10</b>
<b>C) SUPER STRUCTURE(FINISHING WORKS)</b>						
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 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 Engineer in-charge	632.253	Sqm	Rs.508.29	=	Rs.3,21,369.52
16	Providing, supplying and laying 6mm thick glazed ceramic tile coloured /white of size 200x450mm or 300x300 of approved	335.04	Sqm	Rs.557.08	=	Rs.1,86,643.76



	make such as "Johnson & Johnson or Somani brand " in dado /skirting to any height in all floors fixed with neat cement slurry after soaking the tiles in water, under layer of 12mm thick CM (1:3) mix, (The rate shall be inclusive of center point firing i.e. extra labour materials etc to be considered so as to get outlet of plumbing / sanitary fitting at the junction of floor tile), with white cement pointing in joints including washing and cleaning polish with oxalic acid, including 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					
17	Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement mortar 1:4 (1 cement: 4 sand) to walls, beams, ceiling, stair, column, pādis, 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	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" including cost of finishing existing wall surface 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	
<b>TOTAL SUPER STRUCTURE (FINISHING WORKS)</b>						=	<b>Rs.8,20,730.43</b>
<b>C) SUPER STRUCTURE (WOOD WORKS &amp; STEEL WORKS)</b>							
20	Providing, supplying & fixing in position INDAL make aluminium windows, Doors & ventilator fixed type or partly fixed or partly openable type (fabricated as per architect's design) jointed, mitered with aluminium 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 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 cm at 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 coat 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	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, including 2 coats 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, 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)	24.080	Sqm	Rs.2,215.69	=	Rs.53,353.71
<b>TOTAL SUPER STRUCTURE(WOOD AND STEEL WORKS)</b>					=	<b>Rs.3,27,302.75</b>
<b>C) Water supply WORKS</b>						
23	Providing, supplying and laying stone ware pipe of approved 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

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, 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 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	Rmt	Rs.182.23	=	Rs.1,822.26
26	Providing and fixing gun metal wheel valve of Leader / Zoloto brand for pipelines of following nominal bores, 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 a) For 75mm Dia N.B. pipe	2.000	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	2.000	No	Rs.491.06	=	Rs.982.13
31	Providing, supplying and fixing first quality Hindustan / Neycer / Cera or equivalent white glazed vitreous 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 including cutting and making good the walls and floors 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.	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 inside size 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 stone 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, octroi, 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, octroi, 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 pipe sch.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 adhesive joints including 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 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. a) For 200 mm dia CI pipe.	100.000	Rmt	Rs.425.35	=	Rs.42,535.00
				<b>Water supply</b>	=	<b>Rs.1,30,825.88</b>
<b><u>(D) RCC Road</u></b>						
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 upto 300 mm thickness, and consolidating with road roller and watering, etc. and making good the undulation and disposal of surplus earth lead upto 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 aggregate to wet mix macadam to sieve analysis as per specification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering turfing 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 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 specified 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 in-charge	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, 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
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 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, octroi, 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 (1cement: 1 1/2 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level	2.500	Cum	Rs.5,376.95	=	Rs.13,442.38
				<b>(d)Road work</b>	<b>≡</b>	<b><u>Rs.43,555.05</u></b>
	<b><u>ROOFING WORKS</u></b>					
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 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 sheets should be fixed by using self drilling / self tapping screws 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 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 Engineer-in-Charge. ( Cost includes sheet, ridges plain, Flashing / Aprons, North Light curves, Barge Board , Crimp curve, Gutter )	371.516	Cum	Rs.750.00	=	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 & 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.	76.570	Qtl	Rs.7,500.00	=	Rs.5,74,275.00
				<b>ROOFING WORKS</b>		<b>Rs.8,52,911.72</b>
				<b>TOTAL AMOUNT ( Water supply WORKS)</b>	<b>=</b>	<b>Rs.1,30,825.88</b>
				<b>Total Amount of Foundation Works</b>	<b>=</b>	<b>Rs.14,54,446.07</b>
				<b>Total Amount of Super Structure (Brick Masonary &amp; Concrete Work)</b>	<b>=</b>	<b>Rs.7,24,224.10</b>
				<b>Total Amount of Super Structure (Finishing Works)</b>	<b>=</b>	<b>Rs.8,20,730.43</b>
				<b>Total SUPER STRUCTURE (WOOD WORKS)</b>	<b>=</b>	<b>Rs.3,27,302.75</b>
				<b>Road work</b>	<b>=</b>	<b>Rs.43,555.05</b>
				<b>ROOFING WORKS</b>	<b>=</b>	<b>Rs.8,52,911.72</b>
				<b>Ground floor</b>	<b>=</b>	<b>Rs.43,53,996.01</b>
				<b>ADD FOR ELECTRICTRIFICATION WORKS</b>	<b>=</b>	<b>Rs.94,750.00</b>
				<b>ADD FOR BOREWELL WORKS</b>	<b>=</b>	<b>Rs.1,39,000.00</b>

				ADD FOR Drain 200 RMT @ Rs 355 per RMT	=	Rs.71,000.00
				ADD FOR Boundary @ 300 RMT @ Rs 6200 per RMT	=	Rs.4,96,000.00
				Total Civil +Electrical	=	Rs.51,54,746 .01
				Add1% Contingency	=	Rs. 51547.46
				Total	=	5206293.47
				Add 12% for GST	=	624755.22
				Grand total	=	5831048.68
				Say	=	58,31,000
				(Rupees Fifty eight lakhs and thirty one thousands only)		

**SCOPE OF WORK FOR VERMIN COMPOST PROCESSING SHED**

Sl.No.	Description of items	Nos	L	B/D		H/D		Quantity	Unit
<b>A) FOUNDATION &amp; PLINTH</b>									
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 stacking 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 consolidating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge.a) From existing ground level upto 1.5 M depth.								
	column foundation-C1	10	1.200	1.200		1.000	=	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
	ramp	1	2.000	1.500		0.150	=	0.450	Cum
						G. Total	=	30.740	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 and transportation, T&P, complete as per direction of Engineer-in-charge.								
	Column foundation				Total	30.740		30.740	Cum
	VIDE QTY 2/3 OF EXCAVATION					Total	=	20.493	Cum
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 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.								
					Total	30.74		30.740	Cum
	VIDE QTY 1/3 OF EXCAVATION					Total	=	10.247	Cum

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, octroi, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-in-charge.								
	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	Cum
	steps ramp	1	2.000	1.500		0.100	=	0.300	Cum
	ramp	1	2.000	1.500		0.100	=	0.300	Cum
	room 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 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, octroi, royalties etc. complete as per direction of Engineer- in-charge.								
	column foundation-C1	10	1.500	1.500		0.050	=	1.125	Cum
		4	1.000	1.000		0.050	=	0.200	Cum
	grade beam	7	23.600	0.500		0.050	=	4.130	Cum
		7	10.000	0.500		0.050	=	1.750	Cum
	steps ramp	1	2.000	1.500		0.050	=	0.150	Cum
	ramp	1	2.000	1.500		0.050	=	0.150	Cum
	room inner side	1	23.600	10.000		0.050	=	11.800	Cum
						G. Total	=	19.305	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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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 under ground water tanks, culverts etc. at different levels in any shape as per structural design and as directed								
	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 top	16	1.000	1.500			=	24.000	Sqm
						G. Total	=	141.030	Sqm
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 under ground 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, octroi, 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 coarse sand: 3 HG crusher broken stone aggregates of size 20mm and down) concrete at all level upto highest plinth level.								
	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	
	ramp	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	
<b>8</b>	Providing, fabricating and fixing in position steel 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, 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									
	Vide concrete Qty @0.8 Qtl /Cum							17.283	Qtl	
						G total		17.283	Qtl	Qtl
	Total including wastage and lapping							=	18.147	Qtl
<b>9</b>	Providing, supplying and constructing brick masonry in CM 1:6 (1 cement: 6 coarsesand) in foundation and upto plinth level with 1st class quality approved KB bricks having minimum crushing strength 70kg/sqcm including soaking the bricks in water vat for 24hours before 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, loading, unloading, labour, T&P taxes, duties, levies, octroi royalties etc. complete as per direction of Engineer in-charge.									
	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	
<b>10</b>	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.									
		2	23.600	0.250			=	11.80	Sqm	
		2	10.000	0.250			=	5.00	Sqm	





<b>13</b>	-Do- as per items no above 8.0 but in superstructure at all height above highest plinth level upto all height upto 6.0M( Ground floor)								
	inner side wall	2	23.600	0.250		2.000	=	23.600	Cum
		2	10.000	0.250		2.000	=	10.000	Cum
	above 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	Cum
	RX	-2	2.500	0.250		2.500	=	-3.125	Cum
	window	-10	1.500	0.250		1.500		-5.625	Cum
						<b>Grand Total</b>	=	<b>28.750</b>	<b>Cum</b>
<b>C) SUPERSTRUCTURE(FINISHING WORKS)</b>									
<b>14</b>	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.								
		Qtyvide Item of out side plaster					=	51.716	Kg
						Total	=	51.716	Kg
						G. Total	=	54.302	Kg
<b>15</b>	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 including rounding off the junction and comers, 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								
		1	23.600	10.500			=	247.800	Sqm
		2	23.600	0.500			=	23.600	Sqm
		2	10.500	0.500			=	10.500	Sqm
						<b>Grand Total</b>	=	<b>281.900</b>	<b>Sqm</b>



<b>19</b>	Providing, supplying & fixing in position INDAL make aluminium windows, Doors & ventilator fixed type or partly fixed or partly openable type (fabricated as per architect's design) jointed, mitered with aluminium 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 Engineer-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
<b>20</b>	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 / Shalimar /British /Asian and approved shade, over a coat 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.								
		12	1.200	1.200	15.500		=	267.840	Kg
						G.Total	=	267.840	Kg
<b>21</b>	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 coats 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, 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)								
		3	2.150	2.900			=	18.705	Sqm
						G.Total	=	18.705	Sqm
<b>C) Water supply WORKS</b>									

<b>22</b>	Providing, supplying and laying stone ware pipe of approved 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.								
		30					=	30.000	Rmt
						Total	=	30.000	Rmt
<b>23</b>	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 Engineer-in-charge c) -Do- as per items no 11.02 but For 38mm dia NB pipe								
		2	25.000				=	50.000	Rmt
						Total	=	50.000	Rmt
<b>24</b>	c) -Do- as per items no 11.02 but For 25 mm dia NB pipe								
		15					=	15.000	Rmt
						Total	=	15.000	Rmt
<b>25</b>	c) -Do- as per items no 11.02 but For 20 mm dia NB pipe								
		10					=	10.000	Rmt
						Total	=	10.000	Rmt
<b>26</b>	Providing and fixing gun metal wheel valve of Leader / Zoloto brand for pipelines of following nominal bores, 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 a) For 75mm Dia N.B. pipe								
		3					=	3.000	No
						Total	=	3.000	No
<b>27</b>	Providing, supplying and fixing chromium plated concealed brass heavy-duty bibcock 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, octroi, royalties etc. completed as per direction of Engineer-in-charge.								

		3					=	3.000	No
						Total	=	3.000	No
<b>28</b>	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.								
		3					=	3.000	No
						Total	=	3.000	No
<b>29</b>	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.								
		3					=	3.000	No
						Total	=	3.000	No
<b>30</b>	Constructing inspection chambers of inside size 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 12 mm thick plaster in CM 1:4 in both inside and outside of chamber, Indian Patent stone 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, octroi, royalties etc. completed as per direction of Engineer-in-charge.								
							=	4.000	nos
						G.Total	=	4.000	Nos
		<b>(D) Roadwork</b>							
<b>31</b>	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 upto 300 mm thickness, and consolidating with road roller and watering, etc. and making good the undulation and disposal of surplus earth lead upto 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.								
	Approch road	1	10.00	4.00			=	40.0	Sqm
	For Building Area	1	23.00	10.00			=	230.0	Sqm
						G. Total	=	270.0	Sqm

<b>32</b>	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam to sieve analysis as per specification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering turfing 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 Engineer-in-Charge								
	Plant building approach road	1	20.00	4.000		0.300	=	24.00	Cum
						G. Total	=	24.00	Cum
<b>33</b>	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 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 in-charge								
		1	10				=	10	Rmt
						G. Total	=	10	Rmt
<b>34</b>	Bitumen filling in joints of the concrete pavement with asphalt mixture (70% asphalt + 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.								
		1	10				=	10	Rmt
						G. Total	=	10	Rmt
<b>35</b>	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 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, octroi, royalties etc. complete as per direction of Engineer- in-charge.								
		1	5.000	4.000		0.100	=	2	Cum
						G. Total	=	2	Cum
<b>36</b>	-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								
		1	5.000	4.00		0.100	=	2.00	Cum
	<b>ROOFING WORKS</b>					G. Total	=	2.00	Cum

8.04	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 using self drilling/ self tapping screws 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 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 Engineer-in-Charge. ( Cost includes sheet, ridges plain, Flashing/ Aprons, North Light curves, Barge Board , Crimp curve, Gutter )		1.250	23.600	10.500		=	309.75	Sqm
						G. Total	=	309.75	Sqm
8.07 (A)	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	Qtl

**ESTIMATE FOR VERMIN COMPOST PROCESSING SHED**

Sl.No.	Description of items	Quantity	Unit	Rate		Amount
<b>A) FOUNDATION &amp; PLINTH</b>						
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 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	=	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, octroi, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-in-charge.	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 (1 cement: 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, octroi, royalties etc. complete as per direction of Engineer-in-charge.	19.305	Cum	Rs.4,505.94	=	Rs.86,987.14

6	<p>Providing, supplying &amp; fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid &amp; smooth shuttering centering, bracing &amp; 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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&amp;P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer-In-Charge.</p> <p>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</p>	141.030	Sqm	Rs.100.49	=	Rs.14,172.23
7	<p>Providing, supplying &amp; 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</p>	24.690	Cum	Rs.6,621.36	=	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, octroi, royalties etc. complete as per direction of Engineer –In-Charge.					
8	Providing, fabricating and fixing in position steel 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 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 24 hours before use in foundation at all levels below and up to highest plinth level, all necessary scaffolding, racking out the joints, including 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.	5.700	Cum	Rs.4,010.63	=	Rs.22,860.59
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.	16.800	Sqm	Rs.218.08	=	Rs.3,663.71
		<b>TOTAL COST (FOUNDATION &amp; PLINTH)</b>			=	<b>Rs.4,42,415.38</b>
<b>B) SUPER STRUCTURE (BRICK MASONARY &amp; CONCRETE WORKS)</b>						

11	<p>Providing, supplying &amp; fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid &amp; smooth shuttering centering, bracing &amp; 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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&amp;P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer-In-Charge.</p> <p>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</p>	121.480	Sqm	Rs.100.49	=	Rs.12,207.63
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
13	-Do- as per items 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	=	Rs.1,16,541.95
<b>TOTAL SUPER STRUCTURE(BRICK MASONRY AND CONCRETE WORKS)</b>					=	<b>Rs.1,84,294.53</b>
<b>C) SUPER STRUCTURE(FINISHING WORKS)</b>						

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: cement, 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. 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	281.900	Sqm	Rs.508.29	=	Rs.1,43,287.80
16	Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement mortar 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	517.160	Sqm	Rs.125.36	=	Rs.64,830.06

17	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 including cost of finishing existing wall surface 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 pinth level, raw 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	=	Rs.3,024.00
<b>TOTAL SUPER STRUCTURE (FINISHING WORKS)</b>					=	<b>Rs.2,40,662.22</b>
<b>C) SUPER STRUCTURE (WOOD WORKS &amp; STEEL WORKS)</b>						
19	Providing, supplying & fixing in position INDAL make aluminium windows, Doors & ventilator fixed type or partly fixed or partly openable type (fabricated as per architect's design) jointed, mitered with aluminium 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 Engineer -in-charge.	21.900	Sqm	Rs.2,875.57	=	Rs.62,975.02

20	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 / Sha limar / British / Asian and approved shade, over a coat 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.	2.678	QTL	Rs.6,859.71	=	Rs.18,373.04	
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 coats of 1st quality synthetic enamel paint of make J&N Sha limar / British 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)	18.705	Sqm	Rs.2,215.69	=	Rs.41,444.40	
<b>TOTAL SUPER STRUCTURE(WOOD AND STEEL WORKS)</b>						=	<b>Rs.1,22,792.46</b>
<b>C) Water supply WORKS</b>							



22	Providing, supplying and laying stone ware pipe of approved 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 Engineer-in-charge c) -Do- as per items no 11.02 but For 38mm dia NB pipe	50.000	Rmt	Rs.277.77	=	Rs.13,888.72
24	c)-Do- as per items no 11.02 but For 25 mm dia NB pipe	15.000	Rmt	Rs.277.77	=	Rs.4,166.62

25	c)-Do- as per items no 11.02 but For 20mm dia NB pipe	10.000	Rmt	Rs.182.23	=	Rs.1,822.26
26	Providing and fixing gun metal wheel valve of Leader / Zolooto brand for pipelines of following nominal bores, 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) For 75 mm Dia N.B. pipe	3.000	No	Rs.817.80	=	Rs.2,453.40
27	Providing, supplying and fixing chromium plated concealed brass heavy-duty bibcock 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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	3.000	No	Rs.549.30	=	Rs.1,647.90
28	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	2.000	No	Rs.491.06	=	Rs.982.13
29	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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	3.000	No	Rs.491.06	=	Rs.1,473.19

30	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 stone 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, octroi, royalties etc. completed as per direction of Engineer-in-charge.	4.000	Nos	Rs.1,556.00	=	Rs.6,224.00
				<b>Water supply</b>	=	<b>Rs.55,696.08</b>
<b><u>(D) RCC Road</u></b>						
31	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 upto 300 mm thickness, and consolidating with road roller and watering, etc. and making good the undulation and disposal of surplus earth lead upto 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.	270.000	Sqm	Rs.9.11	=	Rs.2,458.66

32	Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam to sieve analysis as per specification in two layers of uniform thickness and hand packing conveying from stacks and spreading filler (morrum) over the same and watering turfing 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 Engineer-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 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 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.4,500.00
34	Bitumen filling in joints of the concrete pavement with asphalt mixture (70% asphalt + 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, loading, unloading, labour, T&P, taxes, duties, levies, octroi, 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
				<b>(d)Road work</b>	<b>≡</b>	<b><u>Rs.68,718.49</u></b>
	<b><u>ROOFING WORKS</u></b>					
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 using self drilling / self tapping screws nuts of sizes 5.5x55mm with EPDM seal or	309.750	Cum	Rs.750.00	=	Rs.2,32,312.50

	with polymer coated J or L hooks bolts and nuts 8mm diameter with bituminous and Glimpet 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 Engineer-in-Charge. ( Cost includes sheet, ridges plain, Flashing / Aprons, North Light curves, Barge Board, Crimp curve, Gutter )					
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, 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.	82.600	Qtl	Rs.7,500.00	=	Rs.6,19,500.00
				<b>ROOFING WORKS</b>		<b>Rs.8,51,812.50</b>
				<b>TOTAL AMOUNT ( Water supply WORKS)</b>		<b>= Rs.55,696.08</b>
				<b>Total Amount of</b>		<b>= Rs.4,42,415.38</b>

				<b>Foundation Works</b>		
				<b>Total Amount of Super Structure(Brick Masonary &amp; Concrete Work)</b>	=	<b>Rs.1,84,294.53</b>
				<b>Total Amount of Super Structure (Finishing Works)</b>	=	<b>Rs.2,40,662.22</b>
				<b>Total SUPER STRUCTURE (WOOD WORKS)</b>	=	<b>Rs.1,22,792.46</b>
				<b>Road work</b>	=	<b>Rs.68,718.49</b>
				<b>ROOFING WORKS</b>	=	<b>Rs.8,51,812.50</b>
				<b>Ground floor total</b>		<b>Rs.19,66,391.65</b>
				<b>ADD FOR ELECTRICTRIFICATION WORKS</b>	=	<b>Rs.94,750.00</b>
				<b>ADD FOR Drain 171 RMT @ Rs 355 per RMT</b>	=	<b>Rs.60,705.00</b>
				<b>Total Civil + Electrical</b>	=	<b>Rs.21,21,846.65</b>
				<b>Add1% Contingency</b>	=	<b>Rs. 21218.47</b>
				<b>Total</b>	=	<b>Rs. 2143065.12</b>
				<b>Add 12% GST</b>	=	<b>Rs. 257167.81</b>
				<b>Grand total</b>	=	<b>2400232.93</b>

					Say	Rs. 24,00,000
					( Rupees Twenty Four lakhs ) 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 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 stacking simultaneously the surplus excavated stuff as directed within the site area up to a lead of 100m and or spreading the same in layers for site development and consolidating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge.a) From existing ground level up to 1.5 M depth.								
	column foundation-C1	1	7.500	7.500		1.000	=	56.250	Cum
		1	3.500	2.500		0.500	=	4.375	Cum
						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 and transportation, T&P, complete as per direction of Engineer-in-charge.								
	Column foundation				Total	60.625		60.625	Cum
	VIDE QTY 2/3 OF EXCAVATION					Total	=	40.417	Cum
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 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.								
					Total	60.625		60.625	Cum
	VIDE QTY 1/3 OF EXCAVATION					Total	=	20.208	Cum
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, octroi, levies, royalties, spreading and compacting etc. complete as per direction of Engineer-in-charge.								
	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 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, octroi, 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 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 polythen over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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 under ground water tanks, culverts etc. at different levels in any shape as per structural design and as directed								
	column footing	1	7.500	7.500			=	56.250	Sqm
		1	3.500	2.500			=	8.750	Sqm
						G. Total	=	65.000	Sqm
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 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, octroi, 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 (1cement: 1 1/2 coarse sand: 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

		1	3.500	2.500		0.400	=	3.500	Cum	
						G. Total	=	26.000	Cum	
<b>8</b>	Providing, fabricating and fixing in position steel 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 with in 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									
	Vide concrete Qty @0.8 Qtl /Cum							18.200	Qtl	
						G total		18.200	Qtl	Qtl
	Total including wastage and lapping							=	19.110	Qtl
<b>9</b>	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 polythen over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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									
	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	
<b>10</b>	-Do- as per RCC of plinth but for volumetric proportion 1: 1 1/2: 3 (1 cement: 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									
		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	

<b>11</b>	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.								
		Qty vide Item of out side plaster					=	10.400	Kg
						Total	=	10.400	Kg
						G. Total	=	10.920	Kg
<b>12</b>	Providing, supplying and applying 12mm thick cement plaster in line and level, at all heights above and below plinth level with cement mortar 1:4 (1 cement: 4 sand) to walls, beams, ceiling, stair, column, parris, 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								
	outer side plaster	2	7.000	3.000			=	42.000	Sqm
		2	7.000	3.000			=	42.000	Sqm
		2	3.000	2.000			=	12.000	Sqm
		2	2.000	2.000			=	8.000	Sqm
						<b>Grand Total</b>	=	104.000	<b>Sqm</b>
<b>13</b>	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 including cost of finishing existing wall surface with one more coats of wall primer (water base								
			Qty as per	=	12			104.00	Sqm
						G. Total	=	104.00	Sqm

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

Sl.No.	Description of items	Quantity	Unit	Rate		Amount
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 stacking simultaneously the surplus excavated stuffs directed within the site area up to a lead of 100m and or spreading the same in layers for site development and consolidating as directed, including cost of labour tools and plants, taxes etc. complete as per direction of Engineer-In-Charge. a) From existing ground level up to 1.5 M depth.	60.625	Cum	Rs.99.89	=	Rs.6,055.77
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.	40.41667	Cum	Rs.72.04	=	Rs.2,911.46
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 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

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 foundations surrounding areas in layers of 150mm to 200mm including watering, ramming and consolidating, transportation, freight, loading, unloading, labour, T&P, taxes, octroi, 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, octroi, royalties etc. complete as per direction of Engineer-in-charge.	4.875	Cum	Rs.4,505.94	=	Rs.21,966.45

6	<p>Providing, supplying &amp; fixing plywood shuttering for any shape and size as specified in Architect's Drawing including rigid &amp; smooth shuttering centering, bracing &amp; 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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&amp;P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer-In-Charge.</p> <p>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</p>	65.000	Sqm	Rs.100.49	=	Rs.6,531.91
7	<p>Providing, supplying &amp; 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 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 &amp; 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,</p>	26.000	Cum	Rs.6,621.36	=	Rs.1,72,155.42

	T&P, taxes, duties, levies, octroi, royalties etc. complete as per direction of Engineer –In-Charge.					
8	Providing, fabricating and fixing in position steel reinforcement for RCC structural elements, viz. foundation, columns, beams, slabs, precast slab, raft, floor, plinth beam, windowsills, coping, walls, parapet, drops, fins, boxes, gutters, folded plates, chajhas, mullions, overhead and 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 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 polythene over the shuttering and including cost of transportation, loading, unloading, of all materials and labour, T&P, taxes, duties, levies, octroi, 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 cement: 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 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' including cost of finishing existing wall surface with one more coats of wall primer (water base)	104.000	Sqm	Rs.53.93	=	Rs.5,608.90
		<b>Civil Total</b>			=	<b>Rs.4,42,915.95</b>
		<b>Add 1% Contingency</b>				<b>Rs. 4429.16</b>
		<b>Total</b>				<b>Rs. 447345.11</b>
		<b>Add 12% for GST</b>				<b>Rs. 53681.41</b>
		<b>Grand total</b>				<b>Rs. 501026.53</b>
		<b>Say</b>				<b>RS. 5,00,000</b>
		<b>( Rupees Five lakhs ) Only</b>				

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

**Tender Form is issued to:-**

**Date of issue 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 12.00 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 Facilities 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:

Designation:

Name of firm:

Phone/Mob:

No. : Seal of the firm:

**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

**Details of firm/agency**

1. Name of Firm/Agency:
2. Registered Address of Firm/Agency:
3. Name & Phone No. of co-coordinator/contact person:
4. Type of Firm/Agency:
5. Registration No. :
6. Year of Commencement of work of the Firm/Agency:
7. Turnover of Firm/Agency for the year 2018-19:
8. Details of Human resources: (Man power with the firm/Agency)
9. PAN/Service Tax No. of the Firm/Agency: (Please enclose photo copy)
10. Description of construction activities done by: Firm/Agency in past (Please enclosed copies of work order/photographs)
11. Action plan for present activity
12. Other details, (If any):

**Miscellaneous: -**

1. The minimum turnover of last year (2018-19) of the Bidder Firm/Agency should be Rs. 100.00 Lakhs.
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.
4. Balance Sheet prepared by chartered 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			

8. Detail of earnest money

1. D.D. No. :

2. Date:

3. Amount:

4. Name of the issuing bank:

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 such amount:-

1. D.D. No.

2. Date:

3. Amount:

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:

Designation:

Name of firm & address:

Phone / Mobile No. :

Seal of the firm:

**Form No. 3**

**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**

**Financial cost**

S.No	Construction of shed for CFC	Amount Quoted	Percentage of high or less
1	1. The amount should be quoted as per details of work given. 2. The amount quoted should be inclusive of all type of taxes as no separate payment will be made for taxes.		

**Total amount in words:-**

**Place:**

**Date:**

Signature of the authorized person  
Name:  
Designation:  
Name of firm & address:  
Phone /Mobile No. :  
Seal of the firm:

## Form No. 4

### 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

Sl .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 chartered 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 completion of the work.