



AmulFed Dairy

A UNIT OF GUJARAT CO-OPERATIVE MILK MARKETING FEDERATION LIMITED

(PREVIOUSLY KNOWN AS MOTHER DAIRY, GANDHINAGAR)

AFD: CIVIL: INQ _Various Places_20230701

Date: 7th July 2023

To,

Sub: - Inquiry for civil and structural work at Various Places at AmulFed Dairy, Gandhinagar.

We invite your most competitive offer, quoting your lowest rate and shortest execution period for item mentioned as under. Your offer must be sent in sealed reply envelope attached herewith by registered post/courier or by person. Mention, "QUOTATION for civil and structural work at Various Places at AmulFed Dairy, Gandhinagar." on top of the offer reply envelope.

Detailed Technical Specification & Schedule of Quantities as per Enclosed Annexure: - I

Last date of receipt of Quotation: 18th July 2023.

➤ **General Terms & Conditions.**

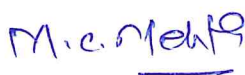
1. Contractor has to quote rates considering work is to be carried out at AmulFed Dairy, Gandhinagar.
2. Your rates should be including of all material cost, labour cost, octroi, loading, unloading at AmulFed Dairy.
3. The Contractor will have to bring his own tools, tackles, ladders, accessories, scaffolding etc.
4. Specify Tax Condition GST will be applicable or not. If tax condition is not specified your rates shall be considered as inclusive of all taxes.
5. **It is advisable to visit the site before quoting your rates.**
6. If work is to be carried out in emergency basis or during Shutdown period, contractor should carry out work on emergency basis, night work shall be permitted under such Intervention to meet production schedule.
7. Payment terms: 30 days after submission of bill based on JMS / JMR.
8. Quantity indicated here is estimated; it may vary on either side however payment shall be made as per the actual work executed at site based on JMS / JMR.
9. To the extent possible extra item shall be avoided. If however is necessary done as per site Condition & is not envisaged in the current SOR we shall fix the rate base on competitive Offers from the market which shall be binding to the contractor. Contractor should inform well in advance about the requirement of the extra item to us to get enough time to collect Comparative offers.

M. C. Mehta

10. All the legal/administrative records like muster roll, salary register, labour license, PF, ESI etc. to be maintained & submitted as and when required and contractor is responsible for labour laws and rules/regulations etc.
11. Cleaning of site must be required after day-to-day work.
12. Your workmen should wear the identity card of your company while executing jobs at AFD, Gandhinagar.
13. In case, any of your workmen get injured due to Accident, while working within premises of AFD, or any damage to our equipment or property has taken place due to your workmen, you will repay the damages/losses.
14. We are ISO 9001:2004 QMS (Quality Management System), ISO 14001:2004 (Environmental Management System) ISO 22000:2005 FSS (Food & Safety System) certified unit. We expect you to follow eco-friendly process in your Company such as waste minimization, reduction in air pollution, waster pollution and soil Contamination etc.
15. Chewing pan masala, tobacco & smoking is strictly prohibited in AFD premises and if any person is catch then penalty would be Rs. 5000/- each.
16. You shall be working in running factory and ensure that the day to day operations of the factory are not hampered in any way due to your activities. Any damages occurred by you shall be recovered. Proper barricading of the work area should be done to prevent dust dirt etc. in the environment.
17. Water and Electricity will be provided by AFD and will recover the 0.5% of Each Bill Value for both Water & Electricity.
18. Safety is the utmost priority inside the premises & Contractor must ensure your team to follows all the safety norms (like use of PPE Personal Protective Equipments, fall protection, secured & safe staging, scaffolding etc.) A safety hand book shall be provided for ready reference if required. If any person not following the safety rules and regulations penalty would be Rs. 1000/- from the Bill.
19. Contractor shall indemnify AFD from any kind of losses due to the activities of the contractor.
20. All jobs executed must remain under **one year defect liability period** pertaining to defects due to bad workmanship, use of sub-standard materials, improper methods of application etc. and must be attended free of charge during this period.
21. **Security deposit 5% of the total cost of the project**, which will be submitting in the form of bank guarantee at time of acceptance of order and will be released after **12 months** after completion date.
22. MS Structure material advance payment will be given 60% once material received at site and remaining 40% will paid after installation and advance amount will recovered from bill.
23. Project Completion period 90 days after site hand over for work in Phase Manner.
24. Retention Money 2.5% of Each Bill Value and which will be release of Final bill.

AmulFed Dairy shall not accept the offer, received later than the date mentioned above.

Yours faithfully,


M.C. Mehta


For AmulFed Dairy.



Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
A	Civil and structural work for UHT Room for SIG Plant.				
1	Excavation in all kinds of soils upto 1.50mt depth for all type of foundations, trenches, roads, surface levelling etc. dressing sides and bottom of the excavated area battering or forming benches, pumping & bailing out of water, shoring and strutting sides of excavation, refilling including ramming watering, consolidating etc., including disposing of surplus earth upto 1500mts within/ outside the Amulfed Dairy site as directed.	Cmt.	15.00		
2	Filling with available excess selected excavated earth (excluding rock and black cotton soil), in plinth & dairy primacies etc, in layers not exceeding 15 cm. in depth, including breaking the clods, watering to optimum moisture content, ramming and compacting by mechanical means of suitable type of vibrator, including freight, transportation, loading, unloading, screening, passes etc. all complete as instruction & directions of the Engineer-in-charge (Consolidated measurements of fill shall be paid for under this item). The rates shall include for all leads and lifts including transporting using mechanical / manual means within the plot area. Note: Using excess available excavated earth from foundations and dressing of the plot area.	Cmt	28.00		
3	Filling, in foundation and plinth (under floors), with good quality coarse river sand, obtained from outside, including watering, ramming well, consolidating and dressing etc. complete all as per specifications and direction of Engineer-in-charge.	Cmt.	1.00		
4	Providing, stacking and laying rubble soling, 23 cm. thick (compacted thickness), in a compact manner to required camber & gradient as per drawing, in subbase for road using 150 to 230 mm. hand broken black hard stones, covering and levelling the surface with a layer of murrum after filling the voids with smaller sized stones or stone chips, including watering, rolling well with power roller of 8 to 10 ton capacity and consolidating each layer, as directed.	Cmt.	7.00		
5	Providing and laying Plain Cement Concrete 1:4:8 including compaction, finishing top surface to the level curing but excluding cost of formwork etc. complete as per specifications and directions as per Engineer-in-charge. In foundations, plinth, sub base of floors etc. (For all civil, plumbing and electrical works).	Cmt.	4.00		

Mc Mehra

Annexure : I

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
6	Providing & laying in position controlled reinforced cement concrete of M-25 grades with machined batched & machine vibrated design mix concrete using graded hard (black trap) stone agg. of 20mm nominal size obtained from quarry incl. mechanical mixing, mechanical vibrating, compaction, finishing, curing etc. The rates shall be inclusive of placing, spreading, compacting etc. complete for all RCC work, for all floors / all levels / all heights / all depths form FFL / GL., in any position & any shape for all structures & mass concrete, as per specifications but excluding the cost of form works & steel reinforcement. (Rate to incl. labour for keeping embedments if any, wherever required while casting) & curing complete. All material to confirm relevant IS standards. The concrete mix design shall be confirming to latest IS 10262 with min. cement content (as stated below - However minimum cement content stated below and according to Design mix whichever higher to be followed) for durability & the same shall be done in testing laboratory approved by the EIC.	Cmt.	12.00		
6.a.	Extra and additional rate for providing and laying in position Ready Mixed M-25 grade concrete for reinforced cement concrete work, concrete mix proportion as per mix design which is approved by consultant including transported to site for work in transit mixer for a lead up to 25 kms having continuous agitated mixer also including pumping of R.M.C. from transit mixer to site of laying, incl. surface finishing the rate should be including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement content and targeted strength should be maintain as per latest IS456) Bidder should quote rate for at all level and all height.	Cmt.	12.00		
7	Supplying, fabricating and placing in position reinforcement bars of all diameter confirming to IS-1786 reinforcement for RCC structure / items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position, binding with 18 gauge (1.22 mm) MS wires, welding if necessary by using approved welding rods etc. for all levels etc. complete as directed by the engineer-in-charge. The quoted rate should be inclusive the cost of binding wire and the same will not be measured and paid separately. (Rolling margin's and wastage shall not be paid.) Measurement will be made on the length basis and converted into weight by using standard co-efficient) (For all civil, plumbing & electrical works.) TMT bars Fe- 500, yield stress not less than 500 N/mm ²	Kg	1200.00		

M.C. M. H. S.

Annexure : I

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
8	Providing form work rigid and water tight, centering and shuttering using best quality of ordinary timber planking and/or shuttering plywood /steel plates with supporting system of MS adjustable steel props /Hframe / spans / Frames for all RCC works all heights / all levels / all depths / all floors in horizontal / vertical / slanting surfaces of any shape and size including strutting, propping, bracing, staging etc. complete, so as to give smooth/ fair finish and careful removal of formwork etc. complete all as per specifications and direction of Engineer-in-charge. The Height of propping and centering below supporting as specified below. For all civil, plumbing & electrical works.	Smt	53.00		
9	Providing and laying Bricks masonry works using common burnt clay conventional building bricks confirming to IS 1077-1986 of having crushing strength not less than 50 Kg/cm ² . in foundations and upto all levels, in CM 1:6 (1 cement :6 fine sand), in any shape & all depth, including curing, scaffolding, racking / flush jointing etc. complete, as directed. For all civil, plumbing & electrical works.	Cmt.	27.00		
10	Providing and laying average 12 mm. thick single coat smooth finishing using steel float (mala finish) plaster in CM 1:3 (1 cement : 3 coarse river sand), on ceilings and stair soffits at all floors / all levels / all heights / all shapes with necessary scaffolding, curing, making grooves, forming pattas, closed hacking i properly RCC surface including applying neat cement slurry on RCC Surface etc. complete as directed by the Engineer-in-charge. For all civil, plumbing & electrical works.	Smt	70.00		
11	Providing and laying average 18-20 mm. thick Sand faced cement plaster on walls upto any height above ground level and for all shapes / jambs sills / soffits, consisting of first coat / base layer of average 12-15 mm. thick in CM 1:4 (1 cement: 4 coarse sand) and average 6 mm. thick uniform grained textured finish coat using wooden Gutka, in CM 1:2 (1 cement: 2 sand), including scaffolding, forming grooves, drip moulds, pattas, closed hacking RCC surface, curing etc. complete as per specifications and direction of engineer-in-charge. for all civil, plumbing & electrical works.	Smt	94.00		
12	Providing and fixing in position acid and alkali resisting red mandana stone of approved size and 32-37 mm thick for flooring, 16 to 18 mm thick for skirting and dado including two coats of acid and alkali preventive primer, fixing stones on average 37 mm thick cement mortar bedding 1:3 (1 part cement, 3 part coarse sand) with acid proof powder keeping the joint 6 mm to 10 mm wide all around and filling the same with epoxy resin and hardener of approved quality including hand / machine polishing, wax polishing etc. complete as directed.	Smt	6.00		

M. C. Mehra

Annexure : I

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
13	Providing & laying non skid Endura (Acid-Alkali resistant) INDUSTRIAL TILES ENDURA / PAVIT make 18-20 mm thick manufactured by M/s H & R Johnson (India) or Pavit Ceramics or equivalent for industrial flooring including fixing tiles over 4 to 5 mm thick bed of Laticrete 111 crete filler powder & Laticrete 73 Latex crete admixed in the proportion as mentioned below, keeping the joints 5 mm wide alround for epoxy grouting. The tiles shall be fixed as per detail specification : (1) Cleaning the surface thoroughly with wire brush.(2) Fixing tile over 5 mm thick bed of Laticrete 111 crete filler powder & Laticrete 73 Latex crete admixed in proportion (20 kg Laticrete 111+ 5 to 6 ltr Laticrete 73). The joint should be filled with approved quality anti-fungal epoxy grout Latapoxy 2000 manufactured by M/s Laticrete or approved equivalent, as per manufacturer specifications or as directed. The laying of Tile shall be got done through the authorised applicator of the manufacturer.	Smt	33.00		
14	Providing and laying ceramic tiles 8 to 10 mm thick, of any size as per detail, in floor of approved make and colour such as Somani/Asian/ Naveen or equivalent of first quality set in cement slurry over minimum bedding of 12 mm thick cement mortar 1:3 laid to proper slope, line and level, as specified including curing and cleaning with the mild oxalic acid etc. all complete as directed. a).300 mm x 300 mm. b).450mmx300mm.	Smt	65.00		
15	Providing and laying cement water proofing of average 115 mm thick for balcony, terrace etc for all the floors using cement mortar (1:3) arranging brick bats according to slope addition suitable chemical to make water tight and again putting on top cement mortar (1:3) as above including water proof powder and finishing top with neat cement @ 2.75 Kg/Sq.M making square 300 x 300 mm on top etc. complete including furnishing of guarantee for 10 years. The work should be carried out through an approved specialized agency like India Water Proofing Co.	Smt	32.00		

M. C. Mehta

Annexure : I

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
16	Providing and laying China Mosaic work in slope with white glazed Tiles broken equal pieces not more than 25 to 37 mm wide and colored glazed tiles equal pieces, making pattas, vattas etc. as per details with necessary thick bedding in CM (1:4) laid in required slope, consolidating with wooden hammer, filling joints with white cement, cleaning the surface and acid washing etc. complete as directed at any height. This item includes the work as under. 1).Before executing the china mosaic work first, Thoroughly cleaned surface free of dust, loose lumps of cement mortar, debris etc. than clean the surface with water and then after coating work of chemical water proofing is to be applied by brush or with other equipment as per the specification and direction suggested by manufacturer's of chemical water proofing work. The application is done on Floor area & vattas. Through approved water proofing chemical agency like CHOWGULE KOSTER (India) construction chemicals or equivalent.co.) 2)Providing and laying average 100 mm thick IPS (1:2:4) for slope in terraces at all levels including, watta, junction of pipes, shelves, drains, scaffolding, curing etc. complete as per specifications detailed below: '3).Providing & applying chemical waterproofing work on IPS with vattas as per manufacturer's specification. 4).On completion of the work as mentioned above as serial no 1 to 3 , the china mosaic work on terrace is to be started as per the specification mentioned as above with its details as directed. The work shall be carried out as per manufacturer's specifications for waterproofing including furnishing of guarantee for 10 years on suitable Stamp	Smt	33.00		
17	Providing & filling Acid Alkali proof Epoxy joint of redmandana stone by using epoxy resin of approved make Araldite / Chemiprotec or equivalent including removing of decayed joint materials, surface preparation, opening & cleaning of the joints before re-filling the new epoxy mortar etc. complete as directed.	Rmt	100.00		
18	Applying mirror polish on existing kotah stone, marble, Granite, Redmandana stone, NL stone flooring with three or more coats of polishing with oxalic upto mirror finish surfaces with different grades of Emery (no waxing will be permitted) including cleaning of joints etc. completed as directed.	Smt	189.00		
19	Providing & fabricating MS Structural steel work in bolted or welded in built up sections, trusses and framed work including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work of monkey ladder, spiral staircase, railing, gate, insert plate, cattle trap, rain water spout etc. It should be including necessary plates, rolled joists, channels, angles, tees, flats, position hip and jack lifters, purlins, etc. confirming to latest IS 4923, IS 1161, IS 806 including cutting and welding the members as per detailed drawing and design. The rate shall include zinc chromate yellow oxide primer and 2 coats of synthetic enamel paint of approved make over all the surfaces of the steel sections. complete as directed.	Kg	650.00		

M.C. Mawla

Annexure : I

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
20	Do- as per item no 19 but for in MS Tubular section TATA make or equivalent.	Kg	1600.00		
21	Providing and fixing 18mm thick Cement Particle board (Bison panel Board) on existing MS structure with necessary screws, bolt etc complete for all height to receive RCC slab as per drawing and as directed by engineer in charge.	Smt	30.00		
22	Drilling and fixing reinforcement dowel / Rebare of any dia. And for any depth using epoxy grout of approved make like HILTI, Fisher or equivalent etc, complete as directed.	Nos	40.00		
23	Providing and Applying Core Cutting in R.C.C elements of any thickness up to 450mm				
a	do- as Item 23 for 100mm dia	Nos	2.00		
b.	do- as Item 23 for 150mm dia	Nos	2.00		
24	Making and finishing cut-outs in bricks work upto thickness of 400mm for any height and following sizes including necessary dismantling, debries removing, finishing with plaster to match with existing surface in proper line & level, scaffolding, grouting of sleeves etc. complete as directed.				
a	size: up to 300mm	Nos	3.00		
b.	size: 300mm to 600mm	Nos	2.00		
c.	size: 600mm to 1000mm	Nos	2.00		
25	Providing and Fixing special Stain less steel floor drains (Amul Trap) as per the sample approved by the AMULFED DAIRY and fixing the same as per detailed drg. Sketch, the same in floor at required levels including necessary excavation, providing and laying 75 mm thick PCC 1:4:8 - 230 mm thick brick masonry so as to form a chamber of size 30 x 20 cms. or as directed, inside plaster 12 mm thick in CM 1:4 (1cement : 4 coarse sand) , IPS flooring 38 mm thick in floor of chamber, fixing the trap and jointing the same with the Stainless steel pipe of grade - 316 with CM 1:1 (1 cement : 1 coarse sand) and jute fiber, matching the top of floor drain with the finished floor level etc. all complete. The vertical connecting Stainless steel pipe shall be paid for separately under the relevant items. [The rate includes cost of all the required material including of SS floor drains which will be supplied by contractor as per sample approved by Dairy.]	Nos	1.00		
26	Providing, fabricating and fixing of 750mm width (round/square), SS Channel gutter and such other locations cladding with stainless steel 2mm thick sheets/plates of grade-304 consisting of s.s flats, s.s.angles nosing etc of S.S grade-304 for its framework, including all necessary accessories such as s.s.inserts, 4 or 6mm marine ply etc., all cutting, bending, welding, grinding, drilling, tapping and all other incidentals, and approved buffing to stainless steel members as directed by the Engineer-in-charge	Rmt	35.00		

M. a. Mehrotra

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
27	Providing, Fabricating and fixing SS 304 for Box pipe grating for channel gutter, Angle nosing, framing of aluminium partition including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work etc. It should be including necessary plates, rolled joists, channels, angles, tees, flats, square / rectangular / tubular hollow sections, including cutting and welding the members as per detailed drawing and design. Shop drawings for the connection details shall be prepared for the approval of the EIC. The rate shall be inclusive of supporting brackets made out of SS sections fixing with anchor fastener of Hilti, bending and bends as per the drawing with best quality finish as per the approval of Architect / EIC.	Kg.	400.00		
28	Dismantling brick work including removing debries within / outside the premises as & where directed.	Cmt.	6.00		
29	Dismantling R.C.C work including cutting reinforcement & removing debries within / outside the premises as & where directed.	Cmt.	4.00		
30	Removing any type of existing flooring & dado including removing debries outside the premises as & where directed	Smt	56.00		
31	Removing old doors, window and ventilator of any size including good the walls by CM 1:3 and handing over the old materials to client.	Smt	29.00		
32	Providing and fixing 110mm dia PVC drain waste, vent pipes and fittings such as collars, junctions, bends, fittings with or without access doors, off sets, terminal guard, access pieces, M. S. holders bat heavy quality clamps, made out 12 mm wide & 5 mm thick M. S. flat, cutting chases holes in walls, RCC work, floors etc. and making good the same.	Rmt	6.00		
33	Tractor Trips from one site to another site including loading of any material, debries, earth, and unloading the same within AFD premised or outside without spillage of material and tyre marks on road. Spillage or marks if observed during transportation of material same shall be cleanded any contractor at his own cost and risk.	Nos	5.00		
34	Supply of skilled Mason	Nos	2.00		
35	Supply of unskilled Labour	Nos	4.00		
36	Providing and fixing Aluminium Anodized partition as per following discription. Skeleton of the partition shall be made from 63.5x38.10 mm x 2.82 mm thick 1.558 kg/Rmt. For outer frame & 1.655 kg/Rmt for Middle frame Member and 19 x 17.3 mm beading member having wt of 0.124 kgs/Rmt. Vertical members shall be provided at a maximum distance of 900 mm. Horizontal member shall be provided as per architects drawings 5 mm. thick thoughten glass and 12 mm. thick pre-laminated particle board shall be fixed in the partition as directed. Rate includes all necessary fixing arrangement, Neoprine lining, filling the gaps between alluminium section and wall with sealants as directed including extending alluminium \ M.S. members upto slab\beam for fixity.	Smt	7.00		

M.C. Mohan

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
37	Providing & fixing color anodized Aluminum door having frame of 101.6 x 44.5 x 2.82 mm th weight 2.236 kg/Rmt shutter shall be made from style 85.0 x 44.45x 3mm th weight 2.05 kg/Rmt Top and bottom fail 95.25 x44.45 x 2mm th weight 1.519 kg/Rmt. Lock rail 150 x 44.45 x 2.65 mm th weight 2.646 kg/Rmt beading clip 19x17.20 mm weight 0.124 Kg/Rmt 5.5 mm th float glass and 12mm thick pre laminated particle board (Both side lamination) exterior grade shall be used as directed. 125 mm long 4 nos stainless steel hinges shall be fixed on shutter. Rate shall include copper door lock of approved make Handles of approved design, concealed tower bolts, Neoprin Rubber gasket, fixing with all colour as directed aluminum section shall be Jindal make or equivalent section of HIndalco. Aluminum frame shall have in built projection for door stopper with groove for rubber gasket. Detail as per architects drawings.	Smt	5.00		
38	Providing & fixing in position color anodized aluminum window / ventilator. Sliding / partly openable / fixed type with all frame, size ad shape as per architect's detail including supplying and fixing necessary holdfast, all fixtures and fastenings of anodized aluminum as per requirement and float glass 5.5 mm thk fixed with special gasket felt and aluminum beading complete as per drawing and directed by site engineer (Aluminum sections to be used shall be of Jindal make of Series - 25 mm medium duty or equivalent section of Hindalco etc as approved by the Engineer - in - charge.	Smt	15.00		
39	Providing and fixing hydraulic door closer of approved size and made such as GODREJ / EVERITE / HARDWIN / WARNISH or equivalent with higher capacity 50 to 60kg. as directed.	Nos	2.00		
40	Providing and applying (with rollers only) Plastic emulsion paint of required shed and approved make on new/old work in two or more coats to give an even shed including the preparation of surface for painting, applying primer and putty, at all heights complete as per manufacturer's specification and as directed.	Smt	600.00		
41	Providing and applying "Apex" or "weather coat" of Asian or British paints to exterior surfaces of walls including cleaning old plastered surface/new wall with wire brush, two or more coats of approved shade at all height as directed. as above for Sand faced plaster.	Smt	315.00		
42	Providing and applying synthetic enamel paint, at al heights, of required shade and approved make on new/old work including the preparation of surface for painting, applying primer and putty, with two or more coats of approved first quality enamel paint as directed.	Smt	250.00		

M. C. Mohan

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
43	Providing & fixing GALVALUME colour coated cold rolled sheets made out of 0.5mm base metal thickness and Total Coated Thickness as 0.55mm, yield and tensile strength minimum 550 Mpa cold rolled sheet with hot dip metallic coating of aluminium zinc alloy 150 Gms/SqM, density minimum 4.8 Kg/SqM with minimum 20 microns super durable polyester paint or silicon modified polyester on top and 5 microns back-up epoxy coating at the bottom having 1020/1080mm cover width with 32 mm high crest at 220/250mm C/C in length as approved by the architect and with necessary suitable imported galvanised carbon steel 40micron zinc coated/minimum 20micron Zinc-Tin alloy coated Hexagonal head, self drilling & self tapping screws of ITW Buildiex(R) AS 3566 Class 3/ HILTI/BOSCH having drilling capacity minimum 6-8mm and in required diameter and length fixed using torque drill machine all complete with EPDM sealing washers with sealant.	Smt	30.00		
	Net Amount	Rs.			
	GST @ 18%	Rs.			
	Total Amount with GST	Rs.			

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Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
B	Civil and structural work for Proposed Room / Dock extension at ASRS Front Dispatch Dock.				
1	Excavation in all kinds of soils upto 1.50mt depth for all type of foundations, trenches, roads, surface levelling etc. dressing sides and bottom of the excavated area battering or forming benches, pumping & bailing out of water, shoring and strutting sides of excavation, refilling including ramming watering, consolidating etc., including disposing of surplus earth upto 1500mts within/ outside the Mother Dairy site as directed.	Cmt.	23.00		
2	Filling with available excess selected excavated earth (excluding rock and black cotton soil), in plinth & dairy primacies etc, in layers not exceeding 15 cm. in depth, including breaking the clods, watering to optimum moisture content, ramming and compacting by mechanical means of suitable type of vibrator, including freight, transportation, loading, unloading, screening, passes etc. all complete as instruction & directions of the Engineer-in-charge (Consolidated measurements of fill shall be paid for under this item). The rates shall include for all leads and lifts including transporting using mechanical / manual means within the plot area. Note: Using excess available excavated earth from foundations and dressing of the plot area.	Cmt	87.00		
3	Filling, in foundation and plinth (under floors), with good quality coarse river sand, obtained from outside, including watering, ramming well, consolidating and dressing etc. complete all as per specifications and direction of Engineer-in-charge.	Cmt.	21.00		
4	Providing, stacking and laying rubble soling, 23 cm. thick (compacted thickness), in a compact manner to required camber & gradient as per drawing, in subbase for road using 150 to 230 mm. hand broken black hard stones, covering and levelling the surface with a layer of murrum after filling the voids with smaller sized stones or stone chips, including watering, rolling well with power roller of 8 to 10 ton capacity and consolidating each layer, as directed.	Cmt.	45.00		
5	Providing and laying Plain Cement Concrete 1:4:8 including compaction, finishing top surface to the level curing but excluding cost of formwork etc. complete as per specifications and directions as per Engineer-in-charge. In foundations, plinth, sub base of floors etc. (For all civil, plumbing and electrical works).	Cmt.	15.00		
6	Providing & making 100mm X 100mm to 150mm X 150mm size vatas at wall corner, junction, connections, offsets etc. in cement + sand + grit mortar, curing etc. complete as directed.	Rmt	46.00		

M. C. Mehta

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Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
7	Providing & laying in position controlled reinforced cement concrete of M-25 grades with machined batched & machine vibrated design mix concrete using graded hard (black trap) stone agg. of 20mm nominal size obtained from quarry incl. mechanical mixing, mechanical vibrating, compaction, finishing, curing etc. The rates shall be inclusive of placing, spreading, compacting etc. complete for all RCC work, for all floors / all levels / all heights / all depths form FFL / GL., in any position & any shape for all structures & mass concrete, as per specifications but excluding the cost of form works & steel reinforcement. (Rate to incl. labour for keeping embedments if any, wherever required while casting) & curing complete. All material to confirm relevant IS standards. The concrete mix design shall be confirming to latest IS 10262 with min. cement content (as stated below - However minimum cement content stated below and according to Design mix whichever higher to be followed) for durability & the same shall be done in testing laboratory approved by the EIC.	Cmt.	72.00		
8	Extra and additional rate for providing and laying in position Ready Mixed M-25 grade concrete for reinforced cement concrete work, concrete mix proportion as per mix design which is approved by consultant including transported to site for work in transit mixer for a lead up to 25 kms having continuous agitated mixer also including pumping of R.M.C. from transit mixer to site of laying, incl, surface finishing the rate should be including cost of admixtures in recommended proportions as per IS: 9103 to accelerate/ retard setting of concrete, improve workability without impairing strength and durability as per direction of the Engineer - in - charge. Without Fly Ash (Min cement content and targeted strength should be maintain as per latest IS456) Bidder should quote rate for at all level and all height.	Cmt.	72.00		
9	Supplying, fabricating and placing in position reinforcement bars of all diameter confirming to IS-1786 reinforcement for RCC structure / items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position, binding with 18 gauge (1.22 mm) MS wires, welding if necessary by using approved welding rods etc. for all levels etc. complete as directed by the engineer-in-charge. The quoted rate should be inclusive the cost of binding wire and the same will not be measured and paid separately. (Rolling margin's and wastage shall not be paid.) Measurement will be made on the length basis and converted into weight by using standard co-efficient) (For all civil, plumbing & electrical works.) TMT bars Fe- 500, yield stress not less than 500 N/mm ²	Kg	7920.00		

M.C. Melita

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
10	Providing form work rigid and water tight, centering and shuttering using best quality of ordinary timber planking and/or shuttering plywood /steel plates with supporting system of MS adjustable steel props /Hframe / spans / Frames for all RCC works all heights / all levels / all depths / all floors in horizontal / vertical / slanting surfaces of any shape and size including strutting, propping, bracing, staging etc. complete, so as to give smooth/ fair finish and careful removal of formwork etc. complete all as per specifications and direction of Engineer-in-charge. The Height of propping and centering below supporting as specified below. For all civil, plumbing & electrical works.	Smt	94.00		
11	Extra for carrying out vacuum dewatering in floor, well compacted, mechanically vibrated, finished to reqd lvls, floated with neat cement & power trowelled to get desired finish (smooth/broom), over a levelling course, incl. MS shuttering, curing for 7 days etc complete. The reinforcement for Tremix floor to be installed as shown, the suitable size of panel should be 3.5 m x 4.00 m or as directed by Er. The Contraction/sawed joints to be formed at every 5m distance by grooving with mechanical saw within 48 hrs. Groove sawed joints of 5 mm width & 25 mm min depth (1/3 rd depth of the pavement) as shown in the drg & operation should be carried out as soon as conc. is ready to accept the saw cut w/o trowelling etc as directed by Er-in-charge. The rate shall be incl. of labour, grooves & machinery cost. The rate of conc. & steel shall be paid in relevant items separately.	Smt	120.00		
12	Supplying and Spreading Ironite No 4 @ 3.5 Kgs/m ² Non Metallic shall be sprinkled over green concrete 1/3rd of the dry shake shall be broadcasted in First Pass and same is floated with Power Float, remaining 2/3rd of dry shake is sprinkled in next pass thus the floor laid is floated & trowelled to acquire smooth finish. Etc., complete as per specifications and direction of engineer-in-charge for all floors / all heights / all levels.	Kg.	480.00		
13	Providing and laying Bricks masonry works using common burnt clay conventional building bricks confirming to IS 1077-1986 of having crushing strength not less than 50 Kg/cm ² . in foundations and upto all levels, in CM 1:6 (1 cement :6 find sand), in any shape & all depth, including curing, scaffolding, racking / flush jointing etc. complete, as directed. For all civil, plumbing & electrical works.	Cmt.	35.00		
14	Providing and laying average 12 mm. thick single coat smooth finishing using steel float (mala finish) plaster in CM 1:3 (1 cement : 3 coarse river sand), on ceilings and stair soffits at all floors / all levels / all heights / all shapes with necessary scaffolding, curing, making grooves, forming pattas, closed hacking i properly RCC surface including applying neat cement slurry on RCC Surface etc. complete as directed by the Engineer-in-charge. For all civil, plumbing & electrical works	Smt	235.00		

M. C. Mehta

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
15	Providing and laying average 18-20 mm. thick Sand faced cement plaster on walls upto any height above ground level and for all shapes / jambs sills / soffits, consisting of first coat / base layer of average 12-15 mm. thick in CM 1:4 (1 cement: 4 coarse sand) and average 6 mm. thick uniform grained textured finish coat using wooden Gutka, in CM 1:2 (1 cement: 2 sand), including scaffolding, forming grooves, drip moulds, pattas, closed hacking RCC surface, curing etc. complete as per specifications and direction of engineer-in-charge. for all civil, plumbing & electrical works.	Smt	184.00		
16	Providing 20 to 25 mm thick water proof cement plaster in double coat on any surface at all heights, finish even and smooth in CM 1 : 4 including providing and mixing water proofing material such as pidilite or equivalent as approved by engineer in cement mortar as proportion recommended by manufacture.	Smt	34.00		
17	Providing and laying ceramic tiles 8 to 10 mm thick, of any size as per detail, in floor of approved make and colour such as Somani/Asian/ Naveen or equivalent of first quality set in cement slurry over minimum bedding of 12 mm thick cement mortar 1:3 laid to proper slope, line and level, as specified including curing and cleaning with the mild oxalic acid etc. all complete as directed. a).300 mm x 300 mm. b).450mmx300mm.	Smt	68.00		
18	Providing and laying cement water proofing of average 115 mm thick for balcony, terrace etc for all the floors using cement mortar (1:3) arranging brick bats according to slope addition suitable chemical to make water tight and again putting on top cement mortar (1:3) as above including water proof powder and finishing top with neat cement @ 2.75 Kg/Sq.M making square 300 x 300 mm on top etc. complete including furnishing of guarantee for 10 years. The work should be carried out through an approved specialized agency like India Water Proofing Co.	Smt	152.00		

M. C. Mawla

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
19	Providing and laying China Mosaic work in slope with white glazed Tiles broken equal pieces not more than 25 to 37 mm wide and colored glazed tiles equal pieces, making pattas, vattas etc. as per details with necessary thick bedding in CM (1:4) laid in required slope, consolidating with wooden hammer, filling joints with white cement, cleaning the surface and acid washing etc. complete as directed at any height. This item includes the work as under. 1).Before executing the china mosaic work first, Thoroughly cleaned surface free of dust, loose lumps of cement mortar, debris etc. than clean the surface with water and then after coating work of chemical water proofing is to be applied by brush or with other equipment as per the specification and direction suggested by manufacturer's of chemical water proofing work. The application is done on Floor area & vattas. Through approved water proofing chemical agency like CHOWGULE KOSTER (India) construction chemicals or equivalent.co.) 2)Providing and laying average 100 mm thick IPS (1:2:4) for slope in terraces at all levels including, watta, junction of pipes, shelves, drains, scaffolding, curing etc. complete as per specifications detailed below: '3).Providing & applying chemical waterproofing work on IPS with vattas as per manufacturer's specification. 4).On completion of the work as mentioned above as serial no 1 to 3 , the china mosaic work on terrace is to be started as per the specification mentioned as above with its details as directed. The work shall be carried out as per manufacturer's specifications for waterproofing including furnishing of guarantee for 10 years on suitable Stamp	Smt	152.00		
20	Providing and laying self finish 6.00 mm thick (Average) suitable grade PU (Polyurethane) flooring system using Ucrete MF having density of 1950 Kg/M3, compressive strength shall be 55 N/mm2, tensile strength 9N/mm2, flexural strength 21 N/mm2, good adhesion characteristic, abrasion & water absorption free flooring on existing RCC / Kotah / Redmandana floor surface. Including necessary surface preparation maintaining surface profile SA 2.5 with mechanical using grinder to remove loose particle & dirt, proper cleaning, drying by compressed air, applying base primer and then top coat etc. complete as directed.	Smt	120.00		

M.C. Mehta

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
21	Providing & fabricating MS Structural steel work in bolted or welded in built up sections, trusses and framed work including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work of monkey ladder, spiral staircase, railing, gate, insert plate, cattle trap, rain water spout etc. It should be including necessary plates, rolled joists, channels, angles, tees, flats, position hip and jack lifters, purlins, etc. confirming to latest IS 4923, IS 1161, IS 806 including cutting and welding the members as per detailed drawing and design. The rate shall include zinc chromate yellow oxide primer and 2 coats of synthetic enamel paint of approved make over all the surfaces of the steel sections. complete as directed.	Kg	2000.00		
22	Do- as per item no 19 but for in MS Tubular section TATA make or equivalent.	Kg	5100.00		
23	Removing and Re fabricating MS Structural steel work in bolted or welded in built up sections, trusses and framed work including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work of monkey ladder, spiral staircase, railing, gate, insert plate, rain water spout etc. The rate shall include of zinc chromate yellow oxide primer and 2 coats of synthetic enamel paint of approved make over all the surfaces of the steel sections. complete as directed.	Kg	2827.00		
24	Dismantling R.C.C work including cutting reinforcement & removing debries within / outside the premises as & where directed.	Cmt.	18.00		
25	Dismantling brick work including removing debries within / outside the premises as & where directed.	Cmt.	8.00		
26	Tractor Trips from one site to another site including loading of any material, debries, earth, and unloading the same within AFD premised or outside without spillage of material and tyre marks on road. Spillage or marks if observed during transportation of material same shall be cleanded any contractor at his own cost and risk.	Nos	11.00		
27	Drilling and fixing reinforcement dowel / Rebare of any dia. And for any depth using epoxy grout of approved make like HILTI, Fisher or equivalent etc, complete as directed.	Nos	44.00		
28	Providing and fixing in position 16mm dia HY Chemical Anchor + HAS-E M16x125/108 (Bolt) chemical anchor fastener of Hilti or equivalent approved make with HY-150 Chemical, including drilling holes in RCC elements at all floors / all levels / all heights / all places as per the drawings and direction of Engineer-in-charge. The rates quoted shall be inclusive of drilling holes, providing chemicals, providing anchors, fixing, tightening, etc complete including cost of scaffolding complete.	Nos	88.00		
29	Providing and fixing 18mm thick Cement Particle board (Bison panel Board) on existing MS structure with necessary screws, bolt etc complete for all height to receive RCC slab as per drawing and as directed by engineer in charge.	Smt	120.00		

M. e melu

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
30	Providing and applying (with rollers only) Plastic emulsion paint of required shed and approved make on new/old work in two or more coats to give an even shed including the preparation of surface for painting, applying primer and putty, at all heights complete as per manufacturer's specification and as directed.	Smt	280.00		
31	Providing and applying "Apex" or "weather coat" of Asian or British paints to exterior surfaces of walls including cleaning old plastered surface/new wall with wire brush, two or more coats of approved shade at all height as directed. as above for Sand faced plaster.	Smt	180.00		
32	Providing and applying synthetic enamel paint, at all heights, of required shade and approved make on new/old work including the preparation of surface for painting, applying primer and putty, with two or more coats of approved first quality enamel paint as directed.	Smt	55.00		
33	Providing and fixing 110mm dia PVC drain waste, vent pipes and fittings such as collars, junctions, bends, fittings with or without access doors, off sets, terminal guard, access pieces, M. S. holders bat heavy quality clamps, made out 12 mm wide & 5 mm thick M. S. flat, cutting chases holes in walls, RCC work, floors etc. and making good the same.	Rmt	27.00		
34	Providing and fixing Aluminium Anodized partition as per following discription. Skeleton of the partition shall be made from 63.5x38.10 mm x 2.82 mm thick 1.558 kg/Rmt. For outer frame & 1.655 kg/Rmt for Middle frame Member and 19 x 17.3 mm beading member having wt of 0.124 kgs/Rmt. Vertical members shall be provided at a maximum distance of 900 mm. Horizontal member shall be provided as per architects drawings 5 mm. thick thoughten glass and 12 mm. thick pre-laminated particle board shall be fixed in the partition as directed. Rate includes all necessary fixing arrangement, Neoprine lining, filling the gaps between alluminium section and wall with sealants as directed including extending alluminium \ M.S. members upto slab\beam for fixity.	Smt	5.00		
35	Providing & fixing in position color anodized aluminum window / ventilator. Sliding / partly openable / fixed type with all frame, size ad shape as per architect's detail including supplying and fixing necessary holdfast, all fixtures and fastenings of anodized aluminum as per requirement and float glass 5.5 mm thk fixed with special gasket felt and aluminum beading complete as per drawing and directed by site engineer (Aluminum sections to be used shall be of Jindal make of Series - 25 mm medium duty or equivalent section of Hindalco etc as approved by the Engineer - in - charge.	Smt	13.00		
36	Providing and fixing hydraulic door closer of approved size and made such as GODREJ / EVERITE / HARDWIN / WARNISH or equivalent with higher capacity 50 to 60kg. as directed.	Nos	2.00		

M.C. Menta

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
37	Labour charges for Removing & refixing of old / existing Aluminium section like partition, door and window including necessary modification, cutting, fixing providing of screw, fastner, angle clit etc. complete as direceted.	Smt	6.00		
38	Supply of skilled Mason	Nos	4.00		
39	Supply of unskilled Labour	Nos	8.00		
	Net Amount	Rs.			
	GST @ 18%	Rs.			
	Total Amount with GST	Rs.			

M. C. Melita

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
C	Civil and structural work for APS Steriliser Tank and CIP station at back side dock area.				
1	Dismantling brick work including removing debris within / outside the premises as & where directed.	Cmt.	7.00		
2	Dismantling R.C.C work including cutting reinforcement & removing debris within / outside the premises as & where directed.	Cmt.	5.00		
3	Demolition and disposal of unserviceable materials with all leads and lifts. Plain cement concrete (PCC).	Cmt.	3.00		
4	Removing any type of existing flooring & dado including removing debris outside the premises as & where directed	Smt.	10.00		
5	Excavation in all kinds of soils upto 1.50mt depth for all type of foundations, trenches, roads, surface levelling etc. dressing sides and bottom of the excavated area battering or forming benches, pumping & bailing out of water, shoring and strutting sides of excavation, refilling including ramming watering, consolidating etc., including disposing of surplus earth upto 1500mts within/ outside the Amulfed Dairy site as directed.	Cmt.	36.00		
6	- do as above but- 1.50 mtr. To 3.0 mtr. Depth	Cmt.	22.00		
7	Filling with available excess selected excavated earth (excluding rock and black cotton soil), in plinth & dairy primacies etc, in layers not exceeding 15 cm. in depth, including breaking the clods, watering to optimum moisture content, ramming and compacting by mechanical means of suitable type of vibrator, including freight, transportation, loading, unloading, screening, passes etc. all complete as instruction & directions of the Engineer-in-charge (Consolidated measurements of fill shall be paid for under this item). The rates shall include for all leads and lifts including transporting using mechanical / manual means within the plot area. Note: Using excess available excavated earth from foundations and dressing of the plot area	Cmt.	24.00		
8	Filling, in foundation and plinth (under floors), with good quality coarse river sand, obtained from outside, including watering, ramming well, consolidating and dressing etc. complete all as per specifications and direction of Engineer in-charge.	Cmt.	4.00		
9	Providing, stacking and laying rubble soling, 23 cm. thick (compacted thickness), in a compact manner to required camber & gradient as per drawing, in subbase for road using 150 to 230 mm. hand broken black hard stones, covering and levelling the surface with a layer of murrum after filling the voids with smaller sized stones or stone chips, including watering, rolling well with power roller of 8 to 10 ton capacity and consolidating each layer, as directed.	Cmt.	8.00		
10	Providing and laying Plain Cement Concrete 1:4:8 including compaction, finishing top surface to the level curing but excluding cost of formwork etc. complete as per specifications and directions as per Engineer-in-charge. In foundations, plinth, sub base of floors etc. (For all civil, plumbing and electrical works).	Cmt.	6.00		

M.C. Netha

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
11	Providing and laying Bricks masonry works using common burnt clay conventional building bricks confirming to IS 1077-1986 of having crushing strength not less than 50 Kg/cm ² . in foundations and upto all levels, in CM 1:6 (1 cement :6 fine sand), in any shape & all depth, including curing, scaffolding, racking / flush jointing etc. complete, as directed. For all civil, plumbing & electrical works.	Cmt	19.00		
12	Providing & laying in position controlled reinforced cement concrete of M-25 grades with machined batched & machine vibrated design mix concrete using graded hard (black trap) stone agg. of 20mm nominal size obtained from quarry incl. mechanical mixing, mechanical vibrating, compaction, finishing, curing etc. The rates shall be inclusive of placing, spreading, compacting etc. complete for all RCC work, for all floors / all levels / all heights / all depths from FFL / GL., in any position & any shape for all structures & mass concrete, as per specifications but excluding the cost of form works & steel reinforcement. (Rate to incl. labour for keeping embedments if any, wherever required while casting) & curing complete. All material to confirm relevant IS standards. The concrete mix design shall be confirming to latest IS 10262 with min. cement content (as stated below - However minimum cement content stated below and according to Design mix whichever higher to be followed) for durability & the same shall be done in testing laboratory approved by the EIC.	Cmt	28.00		
13	Supplying, fabricating and placing in position reinforcement bars of all diameter confirming to IS-1786 reinforcement for RCC structure / items as per design including transporting steel to the work site, handling wastage, decoiling, cutting, bending, cranking, fabricating to required shape, placing in position, binding with 18 gauge (1.22 mm) MS wires, welding if necessary by using approved welding rods etc. for all levels etc. complete as directed by the engineer-in-charge. The quoted rate should be inclusive the cost of binding wire and the same will not be measured and paid separately. (Rolling margin's and wastage shall not be paid.) Measurement will be made on the length basis and converted into weight by using standard co-efficient) (For all civil, plumbing & electrical works.) TMT bars Fe- 500, yield stress not less than 500 N/mm ²	Kg.	2520.00		

M.C. Mehta

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
14	Providing form work rigid and water tight, centering and shuttering using best quality of ordinary timber planking and/or shuttering plywood /steel plates with supporting system of MS adjustable steel props /Hframe / spans / Frames for all RCC works all heights / all levels / all depths / all floors in horizontal / vertical / slanting surfaces of any shape and size including strutting, propping, bracing, staging etc. complete, so as to give smooth/ fair finish and careful removal of formwork etc. complete all as per specifications and direction of Engineer-in-charge. The Height of propping and centering below supporting as specified below. For all civil, plumbing & electrical works.	Smt.	140.00		
15	Providing and laying average 12 mm. thick single coat smooth finishing using steel float (mala finish) plaster in CM 1:3 (1 cement : 3 coarse river sand), on ceilings and stair soffits at all floors / all levels / all heights / all shapes with necessary scaffolding, curing, making grooves, forming pattas, closed hacking i properly RCC surface including applying neat cement slurry on RCC Surface etc. complete as directed by the Engineer-in-charge. For all civil, plumbing & electrical works.	Smt	80.00		
16	Providing and laying average 18-20 mm. thick Sand faced cement plaster on walls upto any height above ground level and for all shapes / jambs sills / soffits, consisting of first coat / base layer of average 12-15 mm. thick in CM 1:4 (1 cement: 4 coarse sand) and average 6 mm. thick uniform grained textured finish coat using wooden Gutka, in CM 1:2 (1 cement: 2 sand), including scaffolding, forming grooves, drip moulds, pattas, closed hacking RCC surface, curing etc. complete as per specifications and direction of engineer-in-charge. for all civil, plumbing & electrical works.	Smt	136.00		
17	Providing & fabricating MS Structural steel work in bolted or welded in built up sections, trusses and framed work including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work of monkey ladder, spiral staircase, railing, gate, insert plate, cattle trap, rain water spout etc. It should be including necessary plates, rolled joists, channels, angles, tees, flats, position hip and jack lifters, purlins, etc. confirming to latest IS 4923, IS 1161, IS 806 including cutting and welding the members as per detailed drawing and design. The rate shall include zinc chromate yellow oxide primer and 2 coats of synthetic enamel paint of approved make over all the surfaces of the steel sections. complete as directed.	Kg	460.00		
18	Do- as per item no 19 but for in MS Tubular section TATA make or equivalent.	Kg	500.00		
19	Providing and fixing 18mm thick Cement Particle board (Bison panel Board) on existing MS structure with necessary screws, bolt etc complete for all height to receive RCC slab as per drawing and as directed by engineer in charge.	Sqmt	32.00		

M. C. Mante

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
20	Providing and fixing in position acid and alkali resisting red mandana stone of approved size and 32-37 mm thick for flooring, 16 to 18 mm thick for skirting and dado including two coats of acid and alkali preventive primer, fixing stones on average 37 mm thick cement mortar bedding 1:3 (1 part cement, 3 part coarse sand) with acid proof powder keeping the joint 6 mm to 10 mm wide all around and filling the same with epoxy resin and hardener of approved quality including hand / machine polishing, wax polishing etc. complete as directed.	Smt	36.00		
21	Providing Mandana stone coving at junctions of walls and flooring with Cement Concrete (1:2:4) using stone aggregates and finishing the same with neat cement, curing etc. complete as per detail and directed.	Rmt	30.00		
22	Providing & laying non skid Endura (Acid-Alkali resistant) INDUSTRIAL TILES ENDURA / PAVIT make 18-20 mm thick manufactured by M/s H & R Johnson (India) or Pavit Ceramics or equivalent for industrial flooring including fixing tiles over 4 to 5 mm thick bed of Laticrete 111 crete filler powder & Laticrete 73 Latex crete admixed in the proportion as mentioned below, keeping the joints 5 mm wide alround for epoxy grouting. The tiles shall be fixed as per detail specification : (1) Cleaning the surface thoroughly with wire brush.(2) Fixing tile over 5 mm thick bed of Laticrete 111 crete filler powder & Laticrete 73 Latex crete admixed in proportion (20 kg Laticrete 111+ 5 to 6 ltr Laticrete 73). The joint should be filled with approved quality anti-fungal epoxy grout Latapoxy 2000 manufactured by M/s Laticrete or approved equivalent, as per manufacturer specifications or as directed. The laying of Tile shall be got done through the authorised applicator of the manufacturer.	Smt.	5.00		
23	Providing and laying ceramic tiles 8 to 10 mm thick, of any size as per detail, in floor of approved make and colour such as Somani/Asian/ Naveen or equivalent of first quality set in cement slurry over minimum bedding of 12 mm thick cement mortar 1:3 laid to proper slope, line and level, as specified including curing and cleaning with the mild oxalic acid etc. all complete as directed. a).300 mm x 300 mm. b).450mmx300mm.	Smt	65.00		
24	Providing & laying approved quality mirror finished light and/or dark grey, black or brown granite in flooring, otta, skirting, staircase, steps of approved shade, thickness 18 mm., as per design and in required sizes and shapes, including necessary cement mortar bedding in 1:2. (Only finished granite work shall be measured). The rate includes rounding, champhering and mirror polishing of edges.	Smt	10.00		
25	Providing & filling Acid Alkali proof Epoxy joint of redmandana stone by using epoxy resin of approved make Araldite / Chemiprotec or equivalent including removing of decayed joint materials, surface prepration, opening & cleaning of the joints before re-filling the new apoxy mortar etc. complete as directed.	Rmt	50.00		

M.C. Mehta

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
31	Tractor Trips from one site to another site including loading of any material, debries, earth, and unloading the same within AFD premised or outside without spillage of material and tyre marks on road. Spillage or marks if observed during transportation of material same shall be cleanded any contractor at his own cost and risk.	Nos	5.00		
32	Making and finishing cut-outs in bricks work upto thickness of 400mm for any height and following sizes including necessary dismentaling, debries removing, finishing with plaster to match with existing surface in proper line & level, scaffolding, grouting of sleeves etc. complete as directed.				
a.	size: up to 300mm	Nos	3.00		
b.	size: 300mm to 600mm	Nos	2.00		
c.	size: 600mm to 1000mm	Nos	2.00		
33	Providing and Fixing special Stain less steel floor drains (Amul Trap) as per the sample approved by the AMULFED DAIRY and fixing the same as per detailed drg. Sketch, the same in floor at required levels including necessary excavation, providing and laying 75 mm thick PCC 1:4:8 - 230 mm thick brick masonry so as to form a chamber of size 30 x 20 cms. or as directed, inside plaster 12 mm thick in CM 1:4 (1cement : 4 coarse sand) , IPS flooring 38 mm thick in floor of chamber, fixing the trap and jointing the same with the Stainless steel pipe of grade - 316 with CM 1:1 (1 cement : 1 coarse sand) and jute fiber, matching the top of floor drain with the finished floor level etc. all complete. The vertical connecting Stainless steel pipe shall be paid for separately under the relevant items. [The rate includes cost of all the required material including of SS floor drains which will be supplied by contractor as per sample approved by Dairy.]	Nos	2.00		
34	Providing, fabricating and fixing of 750mm width (round/square), SS Chaneel gutter and such other locations cladding with stainless steel 2mm thick sheets/plates of grade-304 consisting of s.s flats, s.s.angles nosing etc of S.S grade-304 for its framework, including all necessary accessories such as s.s.inserts, 4 or 6mm marine ply etc., all cutting, bending, welding, grinding, drilling, tapping and all other incidentals, and approved buffing to stainless steel members as directed by the Engineer-in-charge	Rmt	8.00		

M.C. Melwani

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
35	Providing, Fabricating and fixing SS 304 for Box pipe grating for channel gutter, Angle nosing, framing of aluminium partition including supplying, fabricating, cutting, assembling, hoisting and fixing in position at all heights of all shapes and size with all leads and lifts for the work etc. It should be including necessary plates, rolled joists, channels, angles, tees, flats, square / rectangular / tubular hollow sections, including cutting and welding the members as per detailed drawing and design. Shop drawings for the connection details shall be prepared for the approval of the EIC. The rate shall be inclusive of supporting brackets made out of SS sections fixing with anchor fastener of Hilti, bending and bends as per the drawing with best quality finish as per the approval of Architect / EIC.	Kg.	100.00		
36	Providing, Fabricating and fixing 100mm dia 3 mm thk. SS drain line of 304 grade made out of round pipes brush finish including tube fitting as bend, Tee, reducers, flange, socket with supporting brackets / clamps made out of SS sections fixing with anchor fastener etc on concrete surface, brick surfaces or floor including bending and bends as per the drawing with best quality finish as per the approval of Architect / EIC.	RMT	5.00		
37	Providing, Fabricating and fixing 150mm dia 3 mm thk. SS drain line of 304 grade made out of round pipes brush finish including tube fitting as as bend, Tee, reducers, flange, socket with supporting brackets / clamps made out of SS sections fixing with anchor fastener etc on concrete surface, brick surfaces or floor including bending and bends as per the drawing with best quality finish as per the approval of Architect / EIC.	RMT	8.00		
38	Providing, Fabricating and fixing 200mm dia 3mm thk. SS drain line of 304 grade made out of round pipes brush finish including tube fitting as as bend, Tee, reducers, flange, socket with supporting brackets / clamps made out of SS sections fixing with anchor fastener etc on concrete surface, brick surfaces or floor including bending and bends as per the drawing with best quality finish as per the approval of Architect / EIC.	RMT	8.00		

M.C. Mehta

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
39	Providing & fixing GALVALUME colour coated cold rolled sheets made out of 0.5mm base metal thickness and Total Coated Thickness as 0.55mm, yield and tensile strength minimum 550 Mpa cold rolled sheet with hot dip metallic coating of aluminium zinc alloy 150 Gms/SqM, density minimum 4.8 Kg/SqM with minimum 20 microns super durable polyester paint or silicon modified polyester on top and 5 microns back-up epoxy coating at the bottom having 1020/1080mm cover width with 32 mm high crest at 220/250mm C/C in length as approved by the architect and with necessary suitable imported galvanised carbon steel 40micron zinc coated/minimum 20micron Zinc-Tin alloy coated Hexagonal head, self drilling & self tapping screws of ITW Buildiex(R) AS 3566 Class 3/ HILTI/BOSCH having drilling capacity minimum 6-8mm and in required diameter and length fixed using torque drill machine all complete with EPDM sealing washers with sealant.	Smt	80.00		
40	Labour charges for Removing & refixing of old / existing Aluminium section like partition, door and window including necessary modification, cutting, fixing providing of screw, fastner, angle clit etc. complete as direceted.	sqmt	10.00		
41	Providing and fixing Aluminium Anodized partition as per following discription. Skeleton of the partition shall be made from 63.5x38.10 mm x 2.82 mm thick 1.558 kg/Rmt. For outer frame & 1.655 kg/Rmt for Middle frame Member and 19 x 17.3 mm beading member having wt of 0.124 kgs/Rmt. Vertical members shall be provided at a maximum distance of 900 mm. Horizontal member shall be provided as per architects drawings 5 mm. thick thoughten glass and 12 mm. thick pre-laminated particle board shall be fixed in the partition as directed. Rate includes all necessary fixing arrangement, Neoprine lining, filling the gaps between alluminium section and wall with sealants as directed including extending alluminium \ M.S. members upto slab\beam for fixity.	sqmt	3.00		
42	Providing & fixing color anodized Aluminum door having frame of 101.6 x 44.5 x 2.82 mm th weight 2.236 kg/Rmt shutter shall be made from style 85.0 x 44.45x 3mm th weight 2.05 kg/Rmt Top and bottom fail 95.25 x44.45 x 2mm th weight 1.519 kg/Rmt. Lock rail 150 x 44.45 x 2.65 mm th weight 2.646 kg/Rmt beading clip 19x17.20 mm weight 0.124 Kg/Rmt 5.5 mm th float glass and 12mm thick pre laminated particle board (Both side lamination) exterior grade shall be used as directed. 125 mm long 4 nos stainless steel hinges shall be fixed on shutter. Rate shall include copper door lock of approved make Handles of approved design, concealed tower bolts, Neoprin Rubber gasket, fixing with all colour as directed aluminum section shall be Jindal make or equivalent section of HIndalco. Aluminum frame shall have in built projection for door stopper with groove for rubber gasket. Detail as per architects drawings.	sqmt	5.00		

M. c. n. ortho

Annexure : I

Technical Specification and Scope of work for Civil and structural work at various places at AFDG.

Sr. No.	Description	UOM	Qty.	Rate	Amount Rs.
43	Providing & fixing in position color anodized aluminum window / ventilator. Sliding / partly openable / fixed type with all frame, size and shape as per architect's detail including supplying and fixing necessary holdfast, all fixtures and fastenings of anodized aluminum as per requirement and float glass 5.5 mm thk fixed with special gasket felt / Al grill with mosquito net and aluminum beading complete as per drawing and directed by site engineer (Aluminum sections to be used shall be of Jindal make of Series - 25 mm medium duty or equivalent section of Hindalco etc as approved by the Engineer - in - charge)	sqmt	32.00		
44	Providing and fixing hydraulic door closer of approved size and made such as EVERITE / HYPER / WARNISH / DYNA or equivalent as directed.	Nos	2.00		
45	Providing and applying (with rollers only) Plastic emulsion paint of required shed and approved make on new/old work in two or more coats to give an even shed including the preparation of surface for painting, applying primer and putty, at all heights complete as per manufacturer's specification and as directed.	Smt	184.00		
46	Providing and applying synthetic enamel paint, at all heights, of required shade and approved make on new/old work including the preparation of surface for painting, applying primer and putty, with two or more coats of approved first quality enamel paint as directed.	Smt	250.00		
47	Providing and applying "Apex" or "weather coat" of Asian or British paints to exterior surfaces of walls including cleaning old plastered surface/new wall with wire brush, two or more coats of approved shade at all height as directed, as above for Sand faced plaster.	Smt	144.00		
	Net Amount	Rs.			
	GST @ 18%	Rs.			
	Total Amount with GST	Rs.			

M. C. Menta