

IDMC, ANAND	CORRIGENDUM-I Dt. 02.09.2025	TENDER REF: IDMC/ Sourcing & VD/ 2025-26/ Enquiry/ 285
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Tender/Event Reference: IDMC/ Sourcing & VD/ 2025-26/Enquiry/ 285

Description of Work: 1000 KLD (Effluent Handling Capacity) ETP FOR 3TPH Potato French fries, 1100 KG/HR potato flakes line plant for Mother Dairy Fruits & Vegetable Pvt. Ltd. Itola Gujarat.

Please note the following changes in the bidding document.

Corrigendum - I			
SI No.	Tender Document Section & Clause	As per the tender document	Please read it as below (Revision)
1	Section 0 Clause No.5 (e), (f), (l)	(e)Event Close Date & time – 08.09.2025, 17.00 Hours (f)Last Date and time for bid submission - 08.09.2025, 17.00 Hours (l) Date and time for receipt of EMD - 06.09.2025, 17.00 Hours	(e)Event Close Date & time – 23.09.2025, 17.00 Hours (f)Last Date and time for bid submission - 23.09.2025, 17.00 Hours (l) Date and time for receipt of EMD - 22.09.2025, 17.00 Hours
2	Section VIII	Heading - SECTION VIII-FORM OF AGREEMENT FOR CIVIL CONSTRUCTION WORK	Heading - SECTION VIII-FORM OF AGREEMENT
3	Section X	Section XI - Schedule of Quantities - Tender published dated 18.08.2025	Section X - Schedule of Quantities - Revision 1 (enclosed revised SOQ)
4	Section XI	Sketches – General Site Layout - - Tender published dated 18.08.2025	Section XI - Sketches – General Site Layout (enclosed revised site layout)

Note:

1. The above corrigendum shall form part of the bidding document. All other terms & conditions shall remain unchanged.
2. The bidders are requested to submit their bids before the due date and time.

Issued by: IDMC Limited, Anand

Enclosure: Section X – Revised SOQ

Section XI – Revised site layout

SECTION – X

SCHEDULE OF QUANTITIES

**Mechanical
/Interconnecting Piping &
Valves/Electrical Works**

DETAILED BOQ OF SUPPLY						
Sl. No.	DESCRIPTION	Specifications / Size (Tentative - as per process requirement)	MOC	Make	Unit	Qty (Tentative)
B.	Supply of Mechanical /Interconnecting Piping & Valves/Electrical items					
1	Bar Screen	As per site requirement & process design	SS 304	Fabricated	Nos.	1.00
2	Submersible Mixer for Collection Tank	As per site requirement & process design	SS 304	Stallkamp/Suma/EYS	Nos.	1.00
3	Raw Effluent Transfer Pumps (Submersible)	(SUBMERSIBLE) 100 m ³ /h, 20 m head	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
4	Heat Exchanger for Cooling the effluent from 80 deg to 40 deg with Cooling Tower	1.Tubular type heat exchanger 2. Cooling tower	As per OEM	HEATMAX/IDMC/KELVION/ ALFA LAVAL/SPX For Colling tower-Reputed make.	Lot	1.00
5	Cleaning System for heat exchanger	As per site requirement & process design	as per OEM	As per standard design.	Lot	1.00
6	Rotary Screen	Cap 50 m ³ /hr	SS 304	Fabricated	Nos.	1.00
7	MECHANISED FAT SKIMMER UNIT Mechanized Fat Removal (Travelling Bridge Skimmer)	size' 12 m X 2.5 m x 1.5 m	MSEP	Fabricated	Lot	1.00
8	Mixture for Hydrolyzing Tank (Jet/Eductor Mixers)	20 m x 15 m x 4 m (LD)	SS 304	Stallkamp/Suma/EYS	Lot	1.00
9	Recirculation Pumps for ET CUM HT	As per site requirement & process design	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	4.00
10	Pipe Grid	As per site requirement & process design	SS 304	As per standard design.	Lot	1.00
11	Automatic Chemical Dosing for pH Correction	Includes pH sencer (2 nos,) Dual Channel Analyzers, controls, wiring, piping, valves, etc.	Agitator SS 304,	As per standard design.	Lot	1.00
12	Acid Dosing Tank	HDPE tank, 2000 litre capacity	-	As per Approved make list	Nos.	1.00
13	Alkali tank (with mixer)	HDPE tank, 2000 litre capacity	-	As per Approved make list	Nos.	1.00
14	Chemical Dosing Pump for Alkali and Acid (for pH correction)	400 LPH, 1.5 Kg/cm ²	-	As per standard design.	Nos.	4.00
15	Continuous Stirred Tank Reactor (CSTR) Complete with Accessories	32 m dia x 13 m height	MSEP	As per Approved make list	Nos.	1.00
16	Continuous Stirrer Tank Reactor complete with accessories as per specifications	As per site requirement & process design	-	As per standard design.	Lot	1.00
17	CSTR feed Pump	55m ³ /h, 25 m head.	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
18	Jet Mixing Eductors for CSTR Anaerobic reactor complete with accessories	32.0 m Ø X 13m LD No of eductors as per OEM	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	1.00
19	Pipe grid	As per site requirement & process design	-	As per standard design.	Lot	1.00
20	Flame Arrestor, Moisture Trap, Water Seal, Pressure & Vacuum Relief Valve, Pressure and Vacuum Gauge, Manometer, Temperature Sensor pH Sensor with display at Anaerobic Digester with data indication in ETP MCC Panel),	As per site requirement & process design	-	As per standard design.	Lot	1.00
21	Biogas Flow Meter with Display in ETP MCC Panel	As per site requirement & process design	As per OEM	E&H/ Emersion/ Aderson	Lot	1.00
22	Biogas Balloon	Balloon having PVC coated fabrics of 1150 GSM (inner gas balloon) and 920 GSM (outer air balloon) with membrane strength 4000 GSM	As per OEM	Lucky tech/ GGE/ Serge Ferrari	Lot	1.00
23	Biogas Balloon Accessories	As per site requirement & process design	As per OEM	Lucky tech/ GGE/ Serge Ferrari	Lot	1.00
24	Recirculation Pumps for CSTR Tank	Capacity as per OEM, Horizontal centrifugal type	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	4.00
25	Degasser	Dia: 2.5 m, Height: 9.0 m (8.25 m LD + 0.75 m FB)	MSEP	As per standard design.	Lot	1.00

DETAILED BOQ OF SUPPLY						
Sl. No.	DESCRIPTION	Specifications / Size (Tentative - as per process requirement)	MOC	Make	Unit	Qty (Tentative)
26	Compressor for Aeration	As per site requirement & process design	-	ELGI/IR/ATLASCOPCO	Nos.	1.00
27	Microbial Culture Dosing System	Culture dosing system with suitable dosing tank (min2000 lit), Mixer (SS 316) & dosing pump (400 LPH) 2 nos	-	As per standard design.	Lot	1.00
28	Flare Stack with Auto ignition System	Capacity: As per design, Auto Biogas Flaring System	-	TECTIKO/ SUPER COMBUSTION	Nos.	1.00
29	Flash Mixer tank complete with accessories (MSEP)	50 m3/hr, HRT: 2 Min	MSEP	As per standard design.	Lot	1.00
30	Flocculator Mixer Unit	42.5 m3/hr, HRT: 10 Min	HDPE Tank with agitator	As per standard design.	Nos.	2.00
31	Coagulants & Flocculants Chemical Solution Tanks	HDPE tank, 2000 litre capacity	HDPE Tank with agitator	As per standard design.	Nos.	2.00
32	Chemicals (Coagulant & Flocculant) Dosing Pumps – 4 Nos.	400 LPH, 1.5 Kg/ cm2	MSEP	As per standard design.	Nos.	4.00
33	Cross flow separator_Complete with Accessories	42.5 m3/hr + 25% recirculation, Suitable for TSS	MSEP	K PACK SYSTEM/ APPROVED EQUIVALENT	Lot	1.00
34	Sludge Recirculation Pumps - Complete with Accessories	As per site requirement & process design	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
35	Diffusers for Aeration System	1000 mm Length	As per OEM	REHAU/OTT	Nos.	440.00
36	Retractable Pipe Hanging System	As per site requirement & process design	SS 304	As per standard design.	Nos.	220.00
37	Air Blowers Aeration Tanks (Screw Blower)	cap 2200 m3/hr @ 0.55Kg/cm2	As per OEM	GD / Arzen / Atlas/EVEREST	Nos.	2.00
38	Dissolved Oxygen System for DO Control	As per site requirement & process design	As per OEM	E&H/ EMERSON	Nos.	1.00
39	VFD for Blowers	As per blower kW	As per OEM	SIEMENS / ALLEN BRADLEY / DANFOSS/SCHNEIDER	Nos.	2.00
40	Submersible Mixer for Anoxic Tank	As per site requirement & process design	SS 304	SULZER (ABS)/GRUNDFOS/WILO/ EBARA	Nos.	2.00
41	Secondary Clarifier Central Driven	8.00 m dia	As per OEM	VOLTAS/ KUNAL ENVIRO ENGINEERS / ENVIRON ENGINEERING/PARAMOUNT LIMITED	Nos.	1.00

DETAILED BOQ OF SUPPLY						
Sl. No.	DESCRIPTION	Specifications / Size (Tentative - as per process requirement)	MOC	Make	Unit	Qty (Tentative)
42	Sludge Recirculation Pumps - (Clarifier)	30 m3/hr 12 m head	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
43	Mechanized Sludge De-watering System	180 kg/hr handling capacity	SS 304	AMCON INC. /HUBER	Nos.	1.00
44	Fat Transfer Pump & Sludge Feed Pump to Volute	Screw Type, Capacity as per OEM	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	3.00
45	Dosing Tank for Flocculants	3000 liters	-	Sintex/Supreme/Approved make	Nos.	1.00
46	Dosing Pump	700 LPH, 2 kg.cm2 pressure pump	-	Verito/ approved make	Nos.	2.00
47	V-Notch Plate	-	SS 304	As per standard design.	Nos.	1.00
48	Filter Feed Pump	50 m3.hr, 35 m head	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
49	MGF (Multigrade Filter)	45 m3, Dia 2500 mm, Ht 1500 mm	MSEP	As per process requirement	Nos.	1.00
50	ACF (Activated Carbon Filter)	45 m3, Dia 2500 mm, Ht 1500 mm	MSEP	As per process requirement	Nos.	1.00
51	Treated Effluent Pump	50 m3/hr, 30m head	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
52	Filtrate Water Pump	Filtrate from SDB & Volute to Equilisation Tank 15 m3/hr 10 m Head	SS 316 Impeller	Kirloskar/ Johnson/ Grundfos	Nos.	2.00
53	CHLORINATION SYSTEM Disinfectant Dosing system etc. as per design/process requirement, approval drawings & technical specifications.	Tank 2000 liter, Pump 100 lph	HDPE tank & PP Pump	Sintex/Supreme/Approved make	Lot	1.00
54	ON LINE FLOW METERS- Electro magnetic type	As per design		XYLEM/E & H / EMERSON/ SCIENTIFIC DEVICES/ KROHNE MARSHALL	Nos.	4.00
55	Level Sensor with transmitter (Non-contact Type Ultrasonic)	As per design		XYLEM/E & H / EMERSON/ SCIENTIFIC DEVICES/ KROHNE MARSHALL	Lot	1.00
56	Online Monitoring System	As per requirement		ROCKWELL/ SIEMENS / ABB / L&T / SCHNEIDER	Nos.	1.00
57	Piping with valves, fitting & related accessories HDPE	Suitable		JAIN/RIL/HASTI/DUTRON /SUPREME/ NOBLE.	Lot	1.00
58	Piping with valves, fitting & related accessories GI	Suitable		JINDAL/TATA	Lot	1.00
59	Pneumatic valve for Automation	As per requirement		AIRA/SPX/ALFA LAVAL/GEA	Lot	1.00
60	Air Compressor with Dryer for Operation of Pneumatic Valves	As per requirement		ELGI/IR/ATLASCOPCO	Lot	1.00
61	MS Structural Steel for Supports ETC.	As per requirement		As per Approved make list	MT	5.00
62	Moter Control Centers Panel	As per load requirement		As per Approved make list	Lot	1.00
63	Pawer and Control Cables	As per load requirement		GLOSTER/ CCI / KEC / FINOLEX /LAPP KABEL / NICCO /RR KABEL /SBEE	Lot	1.00
64	Electrical Assessories Cable Trays / Conduits with support structural, Earting (Cu/GI earting with chemical type maintenance free eart pits) with all required Assessories	As per load requirement		PROFAB / UBITECH / TECHNOFAB /OBO/LEGRAND/FRASER	Lot	1.00
65	Any other item required for proper completion of ETP works in all respect at Itola. (Please attach the detailed item break up with their UOM, unit price and amount.			As per Vendor	Lot	1.00
66	Lab for day to day testng of raw and treated effulant including making lab operationl and training the client manpower.					
a	pH meter			E&H/ EMERSON/BAUMER	Nos.	1.00
b	TDS Meter				Nos.	1.00
c	COD Digester				Nos.	1.00
d	COD Tube with Air Condenser				Nos.	6.00
e	BOD Incubator				Nos.	1.00
f	BOD bottles	300ml		Borosilicate Glass	Nos.	8.00

DETAILED BOQ OF SUPPLY						
Sl. No.	DESCRIPTION	Specifications / Size (Tentative - as per process requirement)	MOC	Make	Unit	Qty (Tentative)
g	Hot Air Oven			THERMAX/HEATMAX/ ROSS THERMAL/ FORBES MARSHALL / APPROVED EQUIVALENT	Nos.	1.00
h	Electronic Balance M/C				Set.	1.00
i	Vacuum pump set			PROMINENT / MILTON ROY/PENTAIR	Nos.	1.00
j	Desiccator			Borosilicate Glass	Nos.	1.00
k	Water distillation unit			Borosilicate Glass	Nos.	1.00
l	Hot plate				Nos.	1.00
m	Magnetic steer			E&H / EMERSON	Nos.	1.00
n	Air pump			IR/KAESSER/ GARDENER DENVER	Nos.	1.00
o	Vacuum pump			PROMINENT / MILTON ROY/PENTAIR	Nos.	1.00
p	COD Flask			Borosilicate Glass	Nos.	6.00
q	Burette with Burette stand	(Burette 50 ml)		Borosilicate Glass	Nos.	1.00
r	Burette with Burette stand	(Burette 25 ml)		Borosilicate Glass	Nos.	1.00
s	Separating funnel with stand	(250 ml)		Borosilicate Glass	Nos.	2.00
t	Glass funnel			Borosilicate Glass	Nos.	2.00
u	Petridis			Borosilicate Glass	Nos.	5.00
v	Pipets with bulb	(0.5 ml)		Borosilicate Glass	Nos.	1.00
		(1 ml)		Borosilicate Glass	Nos.	1.00
		(10 ml)		Borosilicate Glass	Nos.	2.00
w	Graduated cylinder	(50 ml)		Borosilicate Glass	Nos.	2.00
		(100 ml)		Borosilicate Glass	Nos.	2.00
x	Volumetric flask	(100 ml)		Borosilicate Glass	Nos.	3.00
		(200 ml)		Borosilicate Glass	Nos.	5.00
		(500 ml)		Borosilicate Glass	Nos.	5.00
		(1000 ml)		Borosilicate Glass	Nos.	2.00
y	Conical flask	(250 ml)		Borosilicate Glass	Nos.	2.00
		(500 ml)		Borosilicate Glass	Nos.	5.00
z	Beaker	(50 ml)		Borosilicate Glass	Nos.	4.00
		(100 ml)		Borosilicate Glass	Nos.	5.00
		(250 ml)		Borosilicate Glass	Nos.	5.00
		(500 ml)		Borosilicate Glass	Nos.	4.00
		(1000 ml)		Borosilicate Glass	Nos.	2.00
aa	Reagent bottles	(250 ml)		Borosilicate Glass	Nos.	10.00
		(500 ml)		Borosilicate Glass	Nos.	5.00
		(1000 ml)		Borosilicate Glass	Nos.	2.00
ab	Wash bottle			Borosilicate Glass	Nos.	2.00
ac	Distillation assembly (Round bottom flask with stand joint (250 ml), Heating mantle, Distillation unit, Distillation stand).			Borosilicate Glass	Nos.	1.00
ad	Safety Kits.		PPT	Karm/Dupon/Mark Sefty	Nos.	1.00

DETAILED BOQ OF INSTALLATION			
Sl. No.	DESCRIPTION	Unit	QTY.
B.	Installation of Mechanical /Interconnecting Piping & Valves/Electrical items		
1	Bar Screen	Nos.	1.00
2	Submersible Mixer for Collection Tank	Nos.	1.00
3	Raw Effluent Transfer Pumps (Submersible)	Nos.	2.00
4	Heat Exchanger for Cooling the effluent from 80 deg to 40 deg with Cooling Tower	Lot	1.00
5	Cleaning System for heat exchanger	Lot	1.00
6	Rotary Screen	Nos.	1.00
7	MECHANISED FAT SKIMMER UNIT Mechanized Fat Removal (Travelling Bridge Skimmer)	Lot	1.00
8	Mixture for Hydrolyzing Tank (Jet/Eductor Mixers)	Lot	1.00
9	Recirculation Pumps for ET CUM HT	Nos.	4.00
10	Pipe Grid	Lot	1.00
11	Automatic Chemical Dosing for pH Correction	Lot	1.00
12	Acid Dosing Tank	Nos.	1.00
13	Alkali tank (with mixer)	Nos.	1.00
14	Chemical Dosing Pump for Alkali and Acid (for pH correction)	Nos.	4.00
15	Continuous Stirred Tank Reactor (CSTR) Complete with Accessories	Nos.	1.00
16	Continuous Stirrer Tank Reactor complete with accessories as per specifications	Lot	1.00
17	CSTR feed Pump	Nos.	2.00
18	Jet Mixing Eductors for CSTR Anaerobic reactor complete with accessories	Nos.	1.00
19	Pipe grid	Lot	1.00
20	Flame Arrestor, Moisture Trap, Water Seal, Pressure & Vacuum Relief Valve, Pressure and Vacuum Gauge, Manometer, Temperature Sensor pH Sensor with display at Anaerobic Digester with data indication in ETP MCC Panel),	Lot	1.00
21	Biogas Flow Meter with Display in ETP MCC Panel	Lot	1.00
22	Biogas Balloon	Lot	1.00
23	Biogas Balloon Accessories	Lot	1.00
24	Recirculation Pumps for CSTR Tank	Nos.	4.00
25	Degasser	Lot	1.00
26	Compressor for Aeration	Nos.	1.00
27	Microbial Culture Dosing System	Lot	1.00
28	Flare Stack with Auto ignition System	Nos.	1.00
29	Flash Mixer tank complete with accessories (MSEP)	Lot	1.00
30	Flocculator Mixer Unit	Nos.	2.00
31	Coagulants & Flocculants Chemical Solution Tanks	Nos.	2.00
32	Chemicals (Coagulant & Flocculant) Dosing Pumps – 4 Nos.	Nos.	4.00
33	Cross flow separator Complete with Accessories	Lot	1.00
34	Sludge Recirculation Pumps - Complete with Accessories	Nos.	2.00
35	Diffusers for Aeration System	Nos.	440.00
36	Retractable Pipe Hanging System	Nos.	220.00
37	Air Blowers Aeration Tanks (Screw Blower)	Nos.	2.00
38	Dissolved Oxygen System for DO Control	Nos.	1.00
39	VFD for Blowers	Nos.	2.00
40	Submersible Mixer for Anoxic Tank	Nos.	2.00
41	Secondary Clarifier Central Driven	Nos.	1.00
42	Sludge Recirculation Pumps - (Clarifier)	Nos.	2.00
43	Mechanized Sludge De-watering System	Nos.	1.00

DETAILED BOQ OF INSTALLATION			
Sl. No.	DESCRIPTION	Unit	QTY.
44	Fat Transfer Pump & Sludge Feed Pump to Volute	Nos.	3.00
45	Dosing Tank for Flocculants	Nos.	1.00
46	Dosing Pump	Nos.	2.00
47	V-Notch Plate	Nos.	1.00
48	Filter Feed Pump	Nos.	2.00
49	MGF (Multigrade Filter)	Nos.	1.00
50	ACF (Activated Carbon Filter)	Nos.	1.00
51	Treated Effluent Pump	Nos.	2.00
52	Filtrate Water Pump	Nos.	2.00
53	CHLORINATION SYSTEM Disinfectant Dosing system etc. as per design/process requirement, approval drawings & technical specifications.	Lot	1.00
54	ON LINE FLOW METERS- Electro magnetic type	Nos.	4.00
55	Level Sensor with transmitter (Non-contact Type Ultrasonic)	Lot	1.00
56	Online Monitoring System	Nos.	1.00
57	Piping with valves, fitting & related accessories - HDPE	Lot	1.00
58	Piping with valves, fitting & related accessories - GI	Lot	1.00
59	Pneumatic valve for Automation	Lot	1.00
60	Air Compressor with Dryer for Operation of Pneumatic Valves	Lot	1.00
61	MS Structural Steel for Supports ETC.	MT	5.00
62	Moter Control Centers Panel	Lot	1.00
63	Pawer and Control Cables	Lot	1.00
64	Electrical Assessories Cable Trays / Conduits with support structural, Earting (Cu/GI earting with chemical type maintemance free eart pits) with all required Assessories	Lot	1.00
65	Any other item required for proper completion of ETP works in all respect at Itola. (Please attach the detailed item break up with their UOM, unit price and amount.	Lot	1.00
66	Lab for day to day testging of raw and treated effulant including making lab operationl and training the client manpower.		
a	pH meter	Nos.	1.00
b	TDS Meter	Nos.	1.00
c	COD Digester	Nos.	1.00
d	COD Tube with Air Condenser	Nos.	6.00
e	BOD Incubator	Nos.	1.00
f	BOD bottles	Nos.	8.00
g	Hot Air Oven	Nos.	1.00
h	Electronic Balance M/C	Set.	1.00
i	Vacuum pump set	Nos.	1.00
j	Desiccator	Nos.	1.00
k	Water distillation unit	Nos.	1.00
l	Hot plate	Nos.	1.00
m	Magnetic steer	Nos.	1.00
n	Air pump	Nos.	1.00
o	Vacuum pump	Nos.	1.00
p	COD Flask	Nos.	6.00
q	Burette with Burette stand	Nos.	1.00
r	Burette with Burette stand	Nos.	1.00
s	Separating funnel with stand	Nos.	2.00
t	Glass funnel	Nos.	2.00
u	Petridis	Nos.	5.00
v	Pipets with bulb	Nos.	1.00
		Nos.	1.00
		Nos.	2.00
w	Graduated cylinder	Nos.	2.00
		Nos.	2.00
x	Volumetric flask	Nos.	3.00
		Nos.	5.00
		Nos.	5.00
		Nos.	2.00
y	Conical flask	Nos.	2.00
		Nos.	5.00
z	Beaker	Nos.	4.00
		Nos.	5.00
		Nos.	5.00
		Nos.	4.00
		Nos.	2.00
aa	Reagent bottles	Nos.	10.00
		Nos.	5.00
		Nos.	2.00
ab	Wash bottle	Nos.	2.00
ac	Distillation assembly (Round bottom flask with stand joint (250 ml), Heating mantle, Distillation unit, Distillation stand).	Nos.	1.00
ad	Safety Kits.	Nos.	1.00

DETAILED BOQ OF SPARES				
Sl. No.	DESCRIPTION	QTY.	Unit	MOC/Make
C	2 Years of spares for smooth operation of 1000 KLD (effluent handling capacity) etp for 3TPH potato french fries, 1100 hg/hr potato flakes line plant	1.00	Lot	As per Approved make list

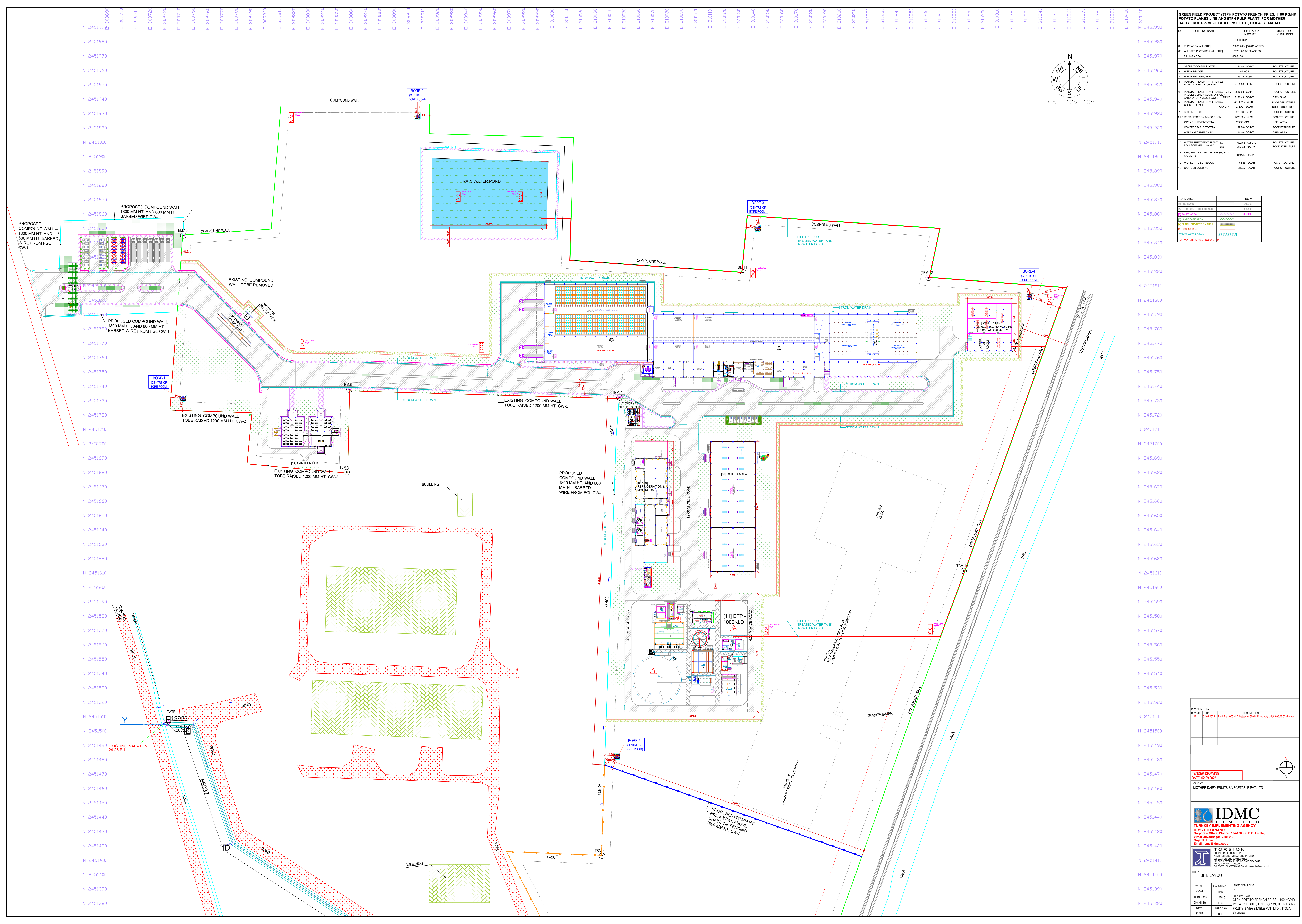
DETAILED BOQ O&M			
Sl. No.	DESCRIPTION	QTY.	Unit
D.	Testing, commissioning, stabilization and one month Operation, training & maintenance	1.00	Lot
E.	Statutory Approvals-CTO/CC&A (as per GSPCB norms.)	1.00	Lot
F.	12 Months Operation & Maintenance Charges (Nos. of Technical Manpower to be indicated with their discipline)	12.00	Months

Inlet-Raw Effluent Parameters				
S. No.	Parameter	Unit	French Fries	Potato Flake
1	pH.	-	4	4.5
2	TSS	mg/l	8000	10000
3	COD	mg/l	13000	15000
4	BOD	mg/l	8500	7500
5	TDS	ppm	3000	3000
6	Temp.	deg C	80	80
7	Oil & Gas	ppm	50	<20
8	ETP Load	KLD	500	500
9	Total Effluent	KLD	1000	

Note:- The inlet parameter may vary 10-20% on either side. Bidders should consider the variation in inlet effluent parameter suitably.

Outlet-Treated Effluent Parameters			
S. No.	Parameter	Unit	Value
1	pH	-	6.5 – 8.5
2	Total Suspended Solids (TSS)	mg/L	<50
3	Biological Oxygen Demand (BOD)	mg/L	<30
4	Chemical Oxygen Demand (COD)	mg/L	<100
5	Oil & Grease	mg/L	< 10

Note: The treated effluent parameters shall be as per GSPCB norms.



FIELD PROJECT (37TH POTPOURRI FRENCH FRIES, 100 KGRH TOAST FLAKES LINE AND STPM PULP PLANT) FOR MOTHER FRUITS & VEGETABLE P.L.T. - ITOLA, GUJARAT			
BUILDING NAME	BUILDING AREA IN SQ.MT	ROOF STRUCTURE OF BUILDING	
BUILT UP			
LOT AREA (ALL SITES)	230306.04 (50.84 ACRES)		
LOT AREA (ALL SITES)	103791.01 (23.00 ACRES)		
LOT AREA (ALL SITES)	63811.50		
STREET LIGHTS IN GATE-1	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-2	15.00 M	ROOF STRUCTURE	
STREET LIGHTS IN GATE-3	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-4	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-5	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-6	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-7	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-8	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-9	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-10	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-11	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-12	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-13	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-14	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-15	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-16	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-17	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-18	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-19	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-20	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-21	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-22	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-23	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-24	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-25	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-26	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-27	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-28	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-29	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-30	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-31	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-32	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-33	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-34	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-35	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-36	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-37	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-38	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-39	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-40	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-41	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-42	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-43	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-44	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-45	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-46	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-47	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-48	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-49	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-50	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-51	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-52	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-53	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-54	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-55	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-56	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-57	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-58	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-59	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-60	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-61	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-62	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-63	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-64	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-65	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-66	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-67	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-68	15.00 - 50.MT	ROOF STRUCTURE	
STREET LIGHTS IN GATE-69	15.00 - 50.MT	ROOF STRUCTURE	

NO	DESCRIPTION	IN SQ. MT.
1	ROAD	16155.00
2	ROAD (out side road)	3235.00
3	AREA	3000.00
4	LANDSCAPE AREA	
5	WIND PROTECTION AREA	
6	CURBING	
7	WATER DRAIN	
8	WATER HARVESTING SYSTEM	

W.NO.	DATE	DESCRIPTION
RT	02.09.2025	Rev. Etp 1000 KLD instead of 850 KLD capacity unit 03.06.07 change

ENDER DRAWING

DATE: 02.09.2025

CUSTOMER: MOTHER DAIRY FRUITS & VEGETABLE PVT. LTD



TORSION
ENGINEERS & CONSULTANTS
ARCHITECTURE STRUCTURE INTERIOR
906-907, FORTUNE BUSINESS HUB,
NR. SHELL PETROL PUMP, SECTOR CITY ROAD,
SOLA, AHMEDNAGAR-400005
CONTACT: +91 8326322835 E-MAIL: sgd@torsion@yahoo.co.in

SITE LAYOUT		
OWNG NO.	AR-00-01-R1	NAME OF BUILDING -
DEALT	HARI	*
PROJECT CODE	I_2025_01	PROJECT NAME:
CHECKED BY	YGS	3THP POTATO FRENCH FRIES, 1100 KG/Hr
DATE	08.07.2025	POTATO FLAKES LINE FOR MOTHER DAIRY
SCALE	N.T.S	FRUITS & VEGETABLE PVT. LTD. , ITOLA , GUJARAT