

Tindivanam Pharma Park Association (TPPA)

Block D1, Baid Metha Complex, No.16, Anna Salai, Little Mount, Saidapet, Chennai - 600 015

TENDER REFERENCE NO. TPPA/CF Development/CETP/2024-25/01

DESIGN, ENGINEERING, CONSTRUCTION, FABRICATION, SUPPLY, ERECTION & COMMISSIONING, AND TESTING OF 250 KLD CAPACITY ZERO LIQUID DISCHARGE (ZLD) BASED COMMON EFFLUENT TREATMENT PLANT (CETP) ON A TURN-KEY BASIS, INCLUDING 12 MONTHS COMPREHENSIVE OPERATION AND MAINTENANCE AT TANSIDCO PHARMA INDUSTRIAL PARK, PELLAKUPPAM, KOLLAR & VENMANIYATHUR VILLAGES, TINDIVANAM TALUK, VILLUPURAM DISTRICT, TAMIL NADU

CORRIGENDUM-1

Sl. No	Page No	Title	Clause No	For	Read as
1.	7	Scope of Work	2.1 (d)	To add	d. The project involves the construction of an administrative building designed with reinforced cement concrete (RCC) structural elements. The facility will encompass a built-up area of 1000 square feet and will include an internal laboratory area, storage room, an office area, and adequate restrooms.
2.	13	Earnest Money Deposit	11.	The Tender should be accompanied by an Earnest Money Deposit (EMD) to the value of Rs.20,00,000/- (Rupees Twenty Lakh only), including GST, in the form of Demand Draft (DD) in favour of Tindivanam Pharma Park Association payable at Chennai. EMD should be in the name of the Bidder/ Firm. Bidders are to provide their GST Registration details	<p>The Tender should be accompanied by an Earnest Money Deposit (EMD) to the value of Rs.20,00,000/- (Rupees Twenty Lakh only), including GST, in the form of Demand Draft (DD) in favour of Tindivanam Pharma Park Association payable at Chennai or in the form of Bank Guarantee (BG) valid for three years from the date of advertisement.</p> <p>EMD should be in the name of the Bidder/ Firm. Bidders are to provide their GST Registration details</p>

Sl. No	Page No	Title	Clause No	For			Read as		
3	16	Bid Due Date	14 (a)	Bid and Enclosures of Bid should be submitted on or before the Bid Due Date i.e., 03.12.2024, 3.00 PM in the manner and form as detailed in this Tender Document.			Bid and Enclosures of Bid should be submitted on or before the Bid Due Date i.e., 10.12.2024, 3.00 PM in the manner and form as detailed in this Tender Document.		
4	22	Retention Money	24	Retention Money will be 5% against each bill. The same will be released upon successful COD and completion of O&M period of 12 months and handing over of all the works certified by TPPA / Consultants appointed by TPPA.			Retention Money will be 5% against each bill. The retention money deducted during the implementation of the project will be released upon successful achievement of the Commercial Operation Date COD of the CETP. The retention money deducted during the 12-month O&M period will be released upon successful completion of O&M period of 12 months and handing over of all the works, as certified by TPPA / Consultants appointed by TPPA.		
5	25	Payment Terms	30 (i)						
				Sl No	Milestone / Item Description	Percentage of Total contract value	Sl No	Milestone / Item Description	Percentage of Total contract value
				1	Submission of all Basic Engineering drawings and documents and site mobilization	5%	1	Submission of all Basic Engineering drawings and documents and site mobilization	5%
				2	30% completion of civil works related to all civil tanks in the CETP project	5%	2	30% completion of civil works related to all civil tanks in the CETP project	10%
				3	Supply of all major mechanical items like evaporators, strippers, RO plant, ATFD	20%	3	Supply of all major mechanical items like evaporators, strippers, RO plant, ATFD	15%
4	Supply of other mechanical items like pumps, filters, tanks, agitators, aerators	5%	4	Supply of other mechanical items like pumps, filters, tanks, agitators, aerators	5%				

Sl. No	Page No	Title	Clause No	For			Read as		
				5	Supply of all mechanical bulk items like pipes, fittings, valves and control panel	5%	5	Supply of all mechanical bulk items like pipes, fittings, valves and control panel	5%
				6	60% completion of civil works pertaining to Item 2 above	5%	6	60% completion of civil works pertaining to Item 2 above	10%
				7	Supply of Utility items like, Boiler, Chimney, Boiler BOP, Cooling tower, pumps etc	10%	7	Supply of Utility items like, Boiler, Chimney, Boiler BOP, Cooling tower, pumps etc	10%
				8	Supply of Electrical major items like Transformer, DG set, MV Panel	10%	8	Supply of Electrical major items like Transformer, DG set, MV Panel	5%
				9	Supply of Utility related piping bulk items and electrical-related bulk items like cables, cable trays, lighting etc	5%	9	Supply of Utility related piping bulk items and electrical-related bulk items like cables, cable trays, lighting etc	5%
				10	90% completion of civil works pertaining to Item 2 above	5%	10	90% completion of civil works pertaining to Item 2 above	10%
				11	Completion of piping works pertaining to CETP including utilities	5%	11	Completion of piping works pertaining to CETP including utilities	2.5%
				12	Completion of electrical, instrumentation works in CETP and main Electrical works	5%	12	Completion of electrical, instrumentation works in CETP and main Electrical works	2.5%
				13	Transformer chagrining from TNEB after getting CEIG approval	2.5%	13	Transformer chagrining from TNEB after getting CEIG approval	2.5%
				14	Startup of Boiler after IBR approvals	2.5%	14	Startup of Boiler after IBR approvals	2.5%
				15	Successful commissioning of CETP plant with guarantee runs	5%	15	Successful commissioning of CETP plant with guarantee runs	5%

Sl. No	Page No	Title	Clause No	For					Read as					
					16	Submission of As-built documentation including O&M manual		5%		16	Submission of As-built documentation including O&M manual		5%	
				A retention amount equivalent to 5% of the running account (RA) bill value shall be deducted from all RA bills submitted. The retention money shall be released as per the Clause 24 of this tender document.						A retention amount equivalent to 5% of the running account (RA) bill value shall be deducted from all RA bills submitted. The retention money shall be released as per Clause 24 of this tender document.				
6	47	Annexure – X Section – 2 Basis of Design	3		S.No	Description	UOM	Limit			S.No	Description	UOM	Limit
					1	pH		6 to 8			1	pH		6 to 8
					2	TDS	PPM	NMT 5000			2	TDS	PPM	NMT 5000
					3	COD	PPM	NMT 5000			3	COD	PPM	NMT 5000
					4	BOD	PPM	NMT 100			4	BOD	PPM	NMT 1000
					5	TSS	PPM	NMT 1000			5	TSS	PPM	NMT 1000
					6	Oil & Grease	PPM	Traces			6	Oil & Grease	PPM	Traces
					7	Ammonia	PPM	50			7	Ammonia	PPM	50
7	65	Annexure – X Section – 5 Reference Drawing	4	To add					4. Soil Test Report (Exhibit 6)					
8	65	Annexure – X Section – 5	5	To add					5. Contour drawing (Exhibit 7)					

Sl. No	Page No	Title	Clause No	For	Read as
		Reference Drawing			
9	65	Annexure – X Section – 5 Reference Drawing	6	To add	6. Indicative Inlet Pipeline levels (Exhibit 8)
10	66	Annexure – X Section – 6	2 (a)	(a) Bidder shall operate and maintain the Common Effluent Treatment Plant, Utilities, Boiler and related accessories, Electrical sub-station and its related infrastructure, system proposed for recycled water and provision for transport of Solid waste generated (salt), complete for 6 years on 24 hours x 7 day basis throughout the year.	(a) Bidder shall operate and maintain the Common Effluent Treatment Plant, Utilities, Boiler and related accessories, Electrical sub-station and its related infrastructure, system proposed for recycled water and provision for transport of Solid waste generated (salt), complete for 12 months on 24 hours x 7 day basis.
11	69	Annexure – X Section – 6	2 (s)	(s) The Bidder shall carryout cement paint/ enamel paint/ white wash for exterior finish of civil units twice during in six year of O & M of the plant and shall also carry out painting on mechanical equipment/ above ground pipe lines/ hand railing twice in six years of O & M of the plant. On the expiry date of his contract operation and maintenance, the Bidder shall hand over the plant back to TPPA in fully working condition satisfying the requirement of treated Effluent. All the electrical, mechanical and instrumentation	(s) On the expiry date of his contract operation and maintenance, the Bidder shall hand over the plant back to TPPA in fully working condition satisfying the requirement of treated Effluent. All the electrical, mechanical and instrumentation including standby shall be in perfect working condition. An option to extend the O & M shall be mutually discussed and agreed if required at the end of the 12 months period

Sl. No	Page No	Title	Clause No	For	Read as
				including standby shall be in perfect working condition. An option to extend the O & M shall be mutually discussed and agreed if required at the end of the six year period	

Managing Director
Tindivanam Pharma Park Association

GEOMARINE THE SPIRIT OF ENGINEERING		SITE INVESTIGATION RECORD						BORE HOLE No. BH: 01				
PROJECT NAME		[SIPCOT, TINDIVANAM]						PAGE No. 1				
LOCATION		MACHINE No. SB:01		CHAINAGE (m)		BORE START DATE 28-12-2023		DIA OF BORE HOLE 150mm 7 100mm				
STRUCTURE		DRILLING METHOD Rotary		CO-ORDINATES N E		BORE END DATE -12-2023		TOTAL DRILLING DAYS				
JOB CODE		FLUSHING MEDIUM Bentonite										
Depth below E.G.L. (m)	Drilling progress per metre		Type of Drill Bit (SC / TCB / DB)	Core Details		SPT Details		Sample Details		Layer Data		
	Date	Time Hr. Min.		Total Core Recovery %	R.Q.D %	Blows/cm. 0-15 15-30 30-45	SPT 'N' Value	Depth	No.	Type	Depth (m)	Geotechnical Description
28-12-2023	14:15	14:17	SC			04 09 22	31	0.50	1	SS		Dense, Greyish Brown, clayey SILT with silt stone pieces
	14:28	14:30	SC			8 8 15	23	1.25	2	SS		Medium Dense, whitish - Greyish Brown, clayey SILT with fine
	14:51	14:53	SC			17 34	6cm 50bls	2.00	3	SS		Very Dense, Brownish Grey, clayey SILT with silt stone (shale)
	15:06	15:10	SC			37	4cm 50bls	3.00	4	SS		Very Dense, Brownish Grey, clayey SILT with silt stone (shale)
	15:29	15:34	SC			2cm 50bls	2cm rebound	4.00	5	SS	4.40	Very Dense, Greyish Brown, SILT with SILT STONE (shale)
	15:53	16:14	DB	33	0			5.00	6	CS		Strong, Greyish Brown, SILT STONE, SHALE
	16:31	16:58	DB	37	0			6.00	7	CS		Strong, Greyish Brown, SAND STONE, SHALE
	9:23	9:39	DB	35	9			7.50	8	CS		Strong, Greyish Brown, SAND STONE with SHALE
	9:48	9:57	DB	93	7			9.00	9	CS		Strong, Greyish Brown, SAND STONE
	10:14	10:19	DB	85	26			10.00	10	CS		Strong, Greyish Brown, SAND STONE
29-12-2023												

CS - Core Sample	DS - Disturbed Sample	SUPERVISOR NAME	Bashan J	PROJECT SITE DETAILS	
SS - Split Spoon Sample	SC - Soil Cutter	SIGNATURE	f. B. J.	GROUND LEVEL (m)	
UDS - Undisturbed Sample	TCB - Tungsten Carbide Bit	DATE	28-12-2023	WATER TABLE (m)	
WS - Wash Sample	DB - Diamond Bit	CLIENT IN-CHARGE		CASING DEPTH (m)	

(SIPCOT) : TINDIVANAM

BORE HOLE NO : 01

S.No	DEPTH (IN METER)	CRP (%)	RAD (%)
1	4.00 To 5.00	33	0
2	5.00 To 6.00	37	0
3	6.00 To 7.50	35	9
4	7.50 To 9.00	93	7
5	9.00 To 10.00	85	26

4.00 To 5.00 Bottom

5.00 To 6.00 Bottom

6.00 To 7.50 Bottom

7.50 To 9.00 Bottom

9.00 To 10.00 Bottom

GEO MARINE THE SPIRIT OF ENGINEERING		SITE INVESTIGATION RECORD										BORE HOLE No. BH:02			
PROJECT NAME SIDCO - TINDIVANAM												PAGE No. 1			
LOCATION		MACHINE No.		SB:01		CHAINAGE (m)				DIA OF BORE HOLE 150mm 7 100mm					
STRUCTURE		DRILLING METHOD		Rotary		CO-ORDINATES		N		BORE START DATE 29-12-2023					
JOB CODE		FLUSHING MEDIUM		Bentonite				E		BORE END DATE 30-12-2023					
										TOTAL DRILLING DAYS 2					
Depth below E.G.L. (m)	Drilling progress per metre			Type of Drill Bit (SC / TCB / DB)	Core Details		SPT Details			Sample Details			Layer Data		
	Date	Time			Total Core Recovery %	R.Q.D %	Blows/cm.			SPT 'N' Value	Depth	No.	Type	Depth (m)	Geotechnical Description
		Hr.	Min				0-15	15-30	30-45						
1	29-12-2023	13:38	13:39	SC			2	5	6	11	0.50	1	SS		Stiff, Blackish Grey, CLAY with gravels
2		13:48	13:49	SC			7	13	19	32	1.25	2	SS		Hard, Brownish Grey, Silty CLAY with SHALE
3		14:03	14:06	SC			12	19	28	47	2.00	3	SS		Dense, to Hard, Greyish Brown, SILT & SHALE
4		14:20	14:23	SC			17	Hammer rebound 8cm / 50bls		N>100	3.00	4	SS		Very Dense, Greyish Brown, SILT with Silt stone
5	30-12-2023	14:35	14:39	SC				Hammer rebound 3cm / 30bls		N>100	4.00	5	WS		Hard, Brownish Grey, SHALE
6		14:50	15:09	DB	20	0					5.00	6	CS		Hard, Brownish Grey, SHALE
7		15:22	15:47	DB	26	0					6.00	7	CS		Hard, Brownish Grey, SHALE
8		16:08	16:39	DB	23	0					7.50	8	CS		Hard to strong, Greyish Brown, SHALE with sand stone
9		16:57	17:39	DB	44	7					9.00	9	CS		Hard to strong, Greyish Brown, SHALE with sand stone
10		7:48	8:18	DB	52	27					10.00	10	CS		Strong, Greyish Brown, Sandstone
BORE HOLE TERMINATED AT 10.00 m DEPTH.															
CS - Core Sample		DS - Disturbed Sample		SUPERVISOR NAME		Baskar J		PROJECT SITE DETAILS							
SS - Split Spoon Sample		SC - Soil Cutter		SIGNATURE		J. Subr.		GROUND LEVEL (m)							
UDS - Undisturbed Sample		TCB - Tungsten Carbide Bit		DATE		29-12-2023		WATER TABLE (m)							
WS - Wash Sample		DB - Diamond Bit		CLIENT IN-CHARGE				CASING DEPTH (m)							

[SIDCO] : TINDIVANAM

BORE HOLE NO: 02

S.NO	DEPTH (IN METER)	CRR(%)	RQD(%)
1	4.00 To 5.00	20	0
2	5.00 To 6.00	26	0
3	6.00 To 7.50	23	0
4	7.50 To 9.00	44	7
5	9.00 To 10.00	52	27

TATA
KESH

Top 4.00 To 5.00 Bottom

Top 5.00 To 6.00 Bottom

Top 6.00 To 7.50 Bottom

Top 7.50 To 9.00 Bottom

Top 9.00 To 10.00 Bottom

SITE INVESTIGATION RECORD

BORE HOLE No.

BH:03

PAGE No.

1

DIA OF BORE HOLE

150mm

100mm

BORE START DATE

30-12-2023

BORE END DATE

30-12-2023

TOTAL DRILLING DAYS

1

PROJECT NAME

SIDCO - TINDIVANAM

LOCATION

MACHINE No.

SB:01

SHAINAGE (m)

STRUCTURE

DRILLING METHOD

Rotary

CO-ORDINATES

N

JOB CODE

FLUSHING MEDIUM

Bentonite

E

Depth below E.G.L. (m)	Drilling progress per metre			Type of Drill Bit (SC / TCB / DB)	Core Details		SPT Details				Sample Details			Layer Data	
	Date	Time			Total Core Recovery %	R.Q.D %	Blows/cm.			SPT 'N' Value	Depth	No.	Type	Depth (m)	Geotechnical Description
		Hr.	Min				0-15	15-30	30-45						
1	30-12-2023	10:44	10:45	SC			2	3	6	9	0.50	1	SS		Stiff, whitish-Brownish Grey, Sandy CLAY with lime pieces
2		10:57	10:59	SC			7	10	10	20	1.25	2	SS		Medium Dense, Whitish-yellowish Brown, Sandy SILT with lime pieces
3		11:17	11:19	SC			No Penetration	19	9cm 50bls	Nx100	2.00	3	SS		Brownish-Grey, CLAY with siltstone pieces
4		11:38	11:40	SC			Hammer rebound	17	22 5cm 50bls	Nx100	3.00	4	SS		Very Dense, Greyish Brown, SILT & siltstone pieces
5		11:59	12:03	SC			Hammer rebound	22	7cm 50bls	Nx100	4.00	5	SS	4.40	Very Dense, Greyish Brown, SILT with siltstone
6		12:20	12:29	DB	23	0					5.00	6	CS		Hard to strong, Brownish Grey SHALE & SANDSTONE
7		12:47	13:18	DB	48	0					6.00	7	CS		Strong, Greyish Brown, SAND STONE
8		13:35	13:57	DB	67	7					7.50	8	CS		Strong, Greyish Brown, SANDSTONE & SLATE ROCK
9		14:19	14:38	DB	61	0					9.00	9	CS		Strong, Greyish Brown, SANDSTONE & SLATE ROCK
10		14:54	15:09	DB	53	36					10.00	10	CS		Strong, Greyish Brown, SAND STONE.
BORE HOLE TERMINATED AT 10.00 mth DEPTH.															

BORE HOLE TERMINATED AT 10.00 mth DEPTH.

CS - Core Sample	DS - Disturbed Sample	SUPERVISOR NAME	PROJECT SITE DETAILS
SS - Split Spoon Sample	SC - Soil Cutter	SIGNATURE	GROUND LEVEL (m)
UDS - Undisturbed Sample	TCB - Tungsten Carbide Bit	DATE	WATER TABLE (m)
WS - Wash Sample	DB - Diamond Bit	CLIENT IN-CHARGE	CASING DEPTH (m)

BRICKAR, J

30/12/2023

[SIDCO] : TINDIVANAM

BORE HOLE No: 03

S.No	DEPTH (IN METER)	CRR (%)	RQD (%)
1	4.00 To 5.00	23	0
2	5.00 To 6.00	48	0
3	6.00 To 7.50	67	7
4	7.50 To 9.00	61	0
5	9.00 To 10.00	53	36

TATA STEEL

Top 4.00 To 5.00 Bottom

Top 5.00 To 6.00 Bottom

Top 6.00 To 7.50 Bottom

Top 7.50 To 9.00 Bottom

Top 9.00 To 10.00 Bottom

SITE INVESTIGATION RECORD

BORE HOLE No.

BH:04

PAGE No.

1

PROJECT NAME

SIDCO - TINDIVANAM

DIA OF BORE HOLE

150mm
100mm

LOCATION

MACHINE No.

SR:01

CHAINAGE (m)

BORE START DATE

30-12-2023

STRUCTURE

DRILLING METHOD

Rotary

CO-ORDINATES

N

BORE END DATE

01-01-2024

JOB CODE

FLUSHING MEDIUM

Bentonite

TOTAL DRILLING DAYS

2

Depth below E.G.L. (m)	Drilling progress per metre		Type of Drill Bit (SC / TCB / DB)	Core Details		SPT Details			Sample Details			Layer Data		
	Date	Time		Total Core Recovery %	R.Q.D %	Blows/cm.			SPT 'N' Value	Depth	No.	Type	Depth (m)	Geotechnical Description
		Hr.				Min	0-15	15-30						
1	30-12-2023	16:00	SC			2	2	6	8	0.50	1	SS		Stiff, Brownish Grey, CLAY with pebbles
		16:01												
		16:11												
		16:12												
2		16:29	SC			No Penetration	7	17	10cm 60bls	NI>100	2.00	3	SS	Hard, Greyish Brown, SILT STONE clay rich SILT
		16:31												
		16:44												
		16:46												
3		17:01	SC			Hammer rebound	19	33	5cm 50bls	NI>100	3.00	4	SS	Very Dense, Greyish Brown, SILT (SILT STONE pieces)
		17:04												
		17:04												
		17:04												
4	01-01-2024	9:03	DB	32	0						5.00	6	CS	Hard, Brownish Grey, SHALE
		9:14												
		9:24												
		9:57												
5		9:57	DB	34	0						6.00	7	CS	Hard to strong, Brownish Grey, SHALE with Sandstone
		9:57												
		9:57												
		9:57												
6		10:41	DB	69	12						7.50	8	CS	Hard to strong, Brownish Grey, SHALE (SANDSTONE)
		11:28												
		11:28												
		11:28												
7		11:47	DB	73	7						9.00	9	CS	Hard to strong, Greyish Brown, SHALE (SANDSTONE)
		12:29												
		12:29												
		12:29												
8		12:44	DB	85	23						10.00	10	CS	Strong, Brownish Grey, SAND STONE
		13:11												
		13:11												
		13:11												
BORE HOLE TERMINATED AT 10.00 mth DEPTH.														

CS - Core Sample	DS - Disturbed Sample	SUPERVISOR NAME	BASKAR J	PROJECT SITE DETAILS	
SS - Split Spoon Sample	SC - Soil Cutter	SIGNATURE	J. Indu	GROUND LEVEL (m)	
UDS - Undisturbed Sample	TCB - Tungsten Carbide Bit	DATE	30/12/2023	WATER TABLE (m)	
WS - Wash Sample	DB - Diamond Bit	CLIENT IN-CHARGE		CASING DEPTH (m)	

(SIDCO) - TINDIVANAM

BORE HOLE NO: 04

S.NO	DEPTH (IN METER)	CRB (%)	RQD (%)
1)	4.00 To 5.00	32	0
2)	5.00 To 6.00	34	0
3)	6.00 To 7.50	69	12
4)	7.50 To 9.00	73	7
5)	9.00 To 10.00	85	23

Top 4.00 To 5.00 Bottom

Top 5.00 To 6.00 Bottom

Top 6.00 To 7.50 Bottom

Top 7.50 To 9.00 Bottom

Top 9.00 To 10.00 Bottom

A

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METER.
2. GIVEN CHAMBER LOCATIONS ARE TO BE VERIFIED WITH STP DRAWING.

- 300mm PP-R PIPE OR HDPE PIPE
- 250mm PP-R PIPE OR HDPE PIPE
- 200mm PP-R PIPE OR HDPE PIPE
- 150mm PP-R PIPE OR HDPE PIPE
- 100mm PP-R PIPE OR HDPE PIPE
- 300mm PP-R PIPE OR HDPE PIPE

1.	100mm PIPE	-	1000m LENGTH
2.	150mm PIPE	-	1350m LENGTH
3.	200mm PIPE	-	270m LENGTH
4.	250mm PIPE	-	505m LENGTH
5.	300mm PIPE	-	2200m LENGTH

[illegible]

SCALE:	1:2	SHEET:	01/01	REV. NO.	A
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