

Setting up of Faecal Sludge Treatment Plant of 40 KLD capacity near Navakunta Lake, Thumkunta Village, Hyderabad on Engineering, Procurement and Construction (EPC) basis with 6 months of operation and maintenance						
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1	2	Schedule of Bidding Process	RFP	Bid Due date/Bid Submission date is 26.10.2020 up to 05:00 pm	1. Request you to extend the bid submission date by 2 weeks, considering the offline submission	Bid Due Date extended to 5.11.2020 up to 5:00 pm. Bidders are advised to take note of the same.
2	2	Schedule of Bidding Process	RFP	Rs.1,00,000/- (Rupees One Lakh only) in the form of the demand draft drawn in favour of ASCI payable at Hyderabad drawn on any scheduled bank.	1. We request you to kindly accept the bid security in the form of Bank Guarantee  2. As per Circular from Government of India there is an exemption for EMD for Medium and Small-Scale Enterprises for select projects. So, we request to consider this for this project  3. We request you to kindly provide Bank Details IFSC Code/Bank account Number, Branch Name) for releasing DD/ BG for EMD	As per RFP
3	9	Clause 1.2.1 Point (d)	RFP	To develop storage facility at the Project site for septage & sludge received and treated.	1. Do you propose shed for sludge storage? In case of such requirement kindly specify the area proposed. If we propose to dispose the sludge on weekly basis is this shed required	1. Yes, sludge must be pasteurized / treated using any other method before storage and accordingly, the Contractor must develop storage facility with good ventilation and roof covered within the area

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					2. Kindly clarify whether the storage place for the materials will be given by HMWS&SB or will be in our scope.	allotted for FSTP.  2. As per RFP, the land will be provided by HMWS&SB.
4	10	Clause 1.2.1 Point (e)	RFP	The support infrastructure shall include the following: 1. Well-designed receiving station for effective decanting of sludge from trucks 2. Hand washing facilities 3. Reception area 4. Operator room with toilet and washroom; 5. Interior roads within FSTP premises; 6. Truck washing unit 7. Street lights 8. Signage at important locations in local language 9. Compound wall with prefabricated material at	1. Please share the standard designs, drawings, area/ dimensions etc. for support infrastructure works.	1. As per RFP, the designs have to be submitted by the Bidder. In this regard, please find enclosed Standards to be followed for process design and Construction in Annex 2 of this document. The Annex 2 will form part of Schedule B of the Draft Contract Agreement as Annex 2, and Schedule B stands amended accordingly. Please note that the list of standards in Annex 2 is indicative only and for more exhaustive listing, reference may be made to BIS/CPHEEO manual / Primer on Faecal Sludge & Septage Management.

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				<p>2 m height above ground level;</p> <p>10. Drainage inside the FSTP premises and drainage outfall into stormwater drainage;</p> <p>11. Provision for rainwater harvesting; and</p> <p>12. To develop such other support infrastructure as incidental to the activities.</p>	<p>2. Reception area noted as requirement: kindly specify the proposed area in sq.ft. Can it be with the Operating Room and toilet. Can it be prefabricated type? What is the areas in each section or can we decide?</p> <p>3. Interior road width not specified; can we assume 3.5 Mt and length as per our requirement to operate?</p> <p>4. Truck washing area: can it be or design to meet the requirement so that the washed water drains to sump to join the treatment.</p>	<p>For guidance notes on support infrastructure please refer Annex 1 of this document. The Annex 1 will form part of Schedule B of the Draft Contract Agreement as Annex 1 and Schedule B stands amended accordingly.</p> <p>2. Reception area and operating room can be same. Security Guard area to be separate, as per requirements, and in line with the Specifications as enclosed.</p> <p>3. Yes and the length as per Project requirements.</p> <p>4. Yes, outlet of the truck washing area shall connect to inlet /screen chamber.</p>

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					<p>5. The thickness of the Prefabricated Compound wall is needed.</p> <p>6. Rainwater Harvesting should be with discharge feed well please specify? In that case are you proposing tube well, as any way you charge the rainwater?</p> <p>7. The site location in the map seems to be falling under FTL of the lake and if in such case the scope of construction of retaining wall and required creation of an island for project construction shall be provided by HMWSSB or in the scope of the Contractor?</p> <p>8. Please confirm whether plant should be operated on PLC / SCADA or manual operation?</p>	<p>5. Bidders are free to design the prefabricated wall ensuring the functionality, stability and durability of the wall as approved by the Authority. Please refer to Annex 1 of Schedule B.</p> <p>6. As per RFP, conventional rainwater harvesting facility to be developed.</p> <p>7. No, not in the scope of the Bidder.</p> <p>8. The bidder is expected to introduce PLC or such other similar technology for effective plant operations and</p>

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					9. Can we use UPVC piping and valves for the inter-connecting piping in FSTP plant	monitoring. 9. RFP stands good.																
5	11	Clause 1.2.2 Point (b)	RFP	The FSTP shall be designed and operated to meet the norms notified by NGT Order dated 30 <sup>th</sup> April, 2019 (O.A. No 1069/2018) and also, as per the norms laid by the State Pollution Control Board (TSPCB) of Telangana through Consent to Establish/Consent to Operate	1. Kindly specify the treated water characteristic for filtrate separated from the faecal sludge	The technology should meet minimum discharge norms as per NGT Order O.A No 1069/2018 dated 30 <sup>th</sup> April 2019 <table border="1"> <thead> <tr> <th>Parameters</th> <th>Standards</th> </tr> </thead> <tbody> <tr> <td>pH</td> <td>5.5-9.0</td> </tr> <tr> <td>BOD</td> <td>10</td> </tr> <tr> <td>TSS</td> <td>20</td> </tr> <tr> <td>COD</td> <td>50</td> </tr> <tr> <td>Total Nitrogen</td> <td>10</td> </tr> <tr> <td>Total Phosphorus (For Discharge into Ponds, Lakes)</td> <td>1.0</td> </tr> <tr> <td>Faecal Coliform</td> <td>Desirable - 100</td> </tr> </tbody> </table>	Parameters	Standards	pH	5.5-9.0	BOD	10	TSS	20	COD	50	Total Nitrogen	10	Total Phosphorus (For Discharge into Ponds, Lakes)	1.0	Faecal Coliform	Desirable - 100
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						<table border="1"> <tr> <td>(MPN/100ml)</td> <td>Permissible - 230</td> </tr> </table> <p>Additionally, the discharge norms as specified by State PCB shall also to be complied.</p>	(MPN/100ml)	Permissible - 230
(MPN/100ml)	Permissible - 230							
6	11	Clause 1.2.2 Point (c)	RFP	To monitor the quality of the treated wastewater/solid waste regularly for the parameters as stipulated in the consent order of the TSPCB and submit the report to the Authority during the O & M period	Testing of wastewater and sludge. Can we hire the same from outside agency?	Yes, as per the provisions of RFP.		
7	11	Clause 1.2.2 point (f)	RFP	The biosolids should be subjected to solar or thermal treatment to eliminate pathogens.	<p>1. Please confirm whether supply of thermal technology is mandatory for all bidders.</p> <p>2. Please specify the type &amp; Make of the thermal technology that needs to be considered.</p> <p>3. Waste to Energy generation technology will be acceptable. pl</p>	<p>1 &amp; 2. As per RFP, thermal technology is not mandatory; however, State PCB norms have to be complied with regards to discharge norms.</p> <p>3. As per RFP, technology agnostic approach is followed.</p>		

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					confirm.	However, no power purchase agreement will be signed. The bidder has to make its own arrangements for sale of power produced.
8	11	Clause 1.2.2 point (i)	RFP	To meet its power consumption requirements, the Contractor is encouraged to use solar energy	<p>1. Whether we need to provide the DG for the complete plant or for critical units in case of Grid power failure. Pl confirm DG operation hours?</p> <p>2. Can solar plant capacity required be defined? Will it be part of project cost? Is it mandatory to set up solar power plant .pl confirm</p> <p>3. Whether FSTP to be operated on solar plant power 100 % and no power will be provided other than emergency time. pl confirm</p>	<p>1. No, DG need not be provided. Accordingly, Clause 1.2.1 (h) of RFP stands deleted.</p> <p>2. As per RFP, the bidder/ operator is encouraged to use solar energy for lighting and other basic requirements in the plant and hence not mandatory. Solar power plant need not be connected to grid and energy generated to be directly used for plant operations.</p> <p>3. No, FSTP not to be run on solar plant power.</p>

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					4. Kindly confirm how much back up will be required for solar plant and electricity generated from solar plant will be connected to through existing grid to plant or directly it can be used for FSTP	4. As per RFP.
9	11	Clause 1.2.2 Point (j)	RFP	The product compost shall meet the standards prescribed under Fertilizer Control Order notified by Gol/GoT from time to time	Kindly specify the filtrate characteristic to be considered for designing the filtrate treatment facility.	As per discharge norms specified by state PCB/NGT guidelines.
10	12	Clause 1.2.2 point (p)	RFP	The receipt of faecal sludge through the tankers/trucks shall be during working hours only as approved by the Authority	Kindly specify the operating hour for proposed FSTP plant	Preferably during day time.
11	12	Clause 1.2.2 point (t)	RFP	Responsible for all permissions & clearances which includes CFE and CFO and any other permits as applicable to the proposed Project.	Kindly clarify whether CFE and CFO approval will be in our scope and the cost for the same has to be included.	Yes.
12	12	Clause 1.2.2	RFP	To develop and maintain	1. Please specify guarantee of	1 & 2. Treated water should be



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		Point (v)		green park for effective usage of end products of treated sludge and septage with green belt covered with tall growing with good leaf area native trees and water harvesting measures in the premises. The bio-solids should be treated using solar or thermal method.	<p>dewatered sludge for disposal and location for Dewatered sludge disposal.</p> <p>2. Kindly confirm disposal place /location of treated water generated from the facility other than the green belt which needs to be developed.</p>	<p>used for plantation within the Plant area and any excess treated water can be either released into the environment in consultation with the Authority or for any other irrigation purposes.</p> <p>However, please note as per RFP, the Operator has to comply with State Pollution Control Board and other compete authority discharge norms for solids, liquids and gaseous pollutants.</p>
13	13	Clause 1.2.3 Point (a)	RFP	The capital expenditure for project development and 6 months O&M expenses will be paid by ASCI as per the provisions of this RFP and the Contract Agreement. The O&M Costs (the "O&M Costs") include personnel costs, consumables,	<p>1. Kindly clarify if the supply of water and electricity up to the project site during the maintenance of the plant will be in our scope or HMWS&amp;SB scope.</p> <p>2. Kindly provide prevailing rate of power from electricity Board for FSTP and availability of the connection at site</p>	<p>1. Supply of electricity up to the site is under the scope of HMWS&amp;SB.</p> <p>2. Contractor to make necessary enquiries with concerned departments.</p>

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				energy/power consumption charges, laboratory operation and maintenance expenses, other utilities and services expenses, repairs and maintenance including replacement and refurbishing costs, overheads, contingencies and any other costs as assumed by the Bidders in this regard.		
14	13	Clause 1.2.3 point (c)	RFP	HMWS&SB will regulate desludging operators and direct them to deliver faecal sludge and septage at the Project site for treatment.	Kindly clarify on the septage delivery to the site. Whether collection and delivery of the septage will be in HMWS&SB scope or our scope financially.	Septage shall be delivered by empaneled private desludging operators arranged by HMWS&SB and hence it is not in the Scope of the Bidder.
15	14	Clause 1.2.5	RFP	The Construction Period for completion of Project execution works is 4 (four) months. The commencement of Works shall be considered from the date	1. Requesting to increase it to 9 months period. Based on our experience, the approval process and environmental clearance will take time. Else request start date of six months from date of design approval and availability of clear	As per RFP

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				of issuing the Project Commencement Date (PCD) as detailed in the Contract Agreement. After completion of Construction Works, the O & M Period is 6 (six) months during which the Contractor is responsible for O & M of the FSTP	site.	
16	14	Clause 1.2.6	RFP	All the construction related payments shall be paid by way of a lump sum fixed cost amount quoted by the Selected Bidder as Bid Project Cost as per the following deliverables: i. On submission and approval of the same by the Authority of the detailed design & drawings (layout, general arrangement, P& ID, etc.) of the FSTP - 5%. ii. On completion of civil	1. Kindly consider the below staggered payment terms as our proposed technology is 90% based on Civil works and the given payment terms will be difficult for us to work. a. On submission and approval of the same by the Authority of the detailed design & drawings (layout, general arrangement, P& ID, etc.) of the FSTP - 5%. b. On Completion of Demarcation, Site Preparation, Reception area, Operator room - 20 % c. On completion of civil works for installation of the plant &	The Clause stands amended as detailed here under:  All the construction related payments shall be paid by way of a lump sum fixed cost amount quoted by the Selected Bidder as Bid Project Cost as per the following deliverables:  i. On submission and approval of the same by the Authority of the detailed design & drawings (layout, general arrangement, P& ID, etc.) of the FSTP - 5%. ii. On completion of civil works

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				<p>works for installation of the plant &amp; machinery - 20%.</p> <p>iii. On delivery of plant &amp; machinery at the Project Site of the Plant - 20%.</p> <p>iv. On installation, erection &amp; commissioning of the plant &amp; machinery and all support infrastructures such as pipes, valves, electrical and mechanical components at the Project Site - 30%;</p> <p>v. After successful trial run and on issuance of Project Completion Certificate - 15%.</p> <p>vi. At the end of Defect Liability Period of 1 (one) year from issuance of Project Completion Certificate - 10%.</p>	<p>machinery - 40%.</p> <p>d. On delivery of plant &amp; machinery at the Project Site of the Plant - 20%.</p> <p>e. On installation, erection &amp; commissioning of the plant &amp; machinery and all support infrastructures such as pipes, valves, electrical and mechanical components at the Project Site - 5%;</p> <p>f. After successful trial run and on issuance of Project Completion Certificate - 5%.</p> <p>g. At the end of Defect Liability Period of 1 (one) year from issuance of Project Completion Certificate - 5%.</p>	<p>for installation of the plant &amp; machinery - 20%.</p> <p>iii. On delivery of plant &amp; machinery at the Project Site of the Plant - 20%.</p> <p>iv. On installation, erection &amp; commissioning of the plant &amp; machinery and all support infrastructures such as pipes, valves, electrical and mechanical components at the Project Site - 30%;</p> <p>v. After successful trial run and on issuance of Project Completion Certificate - 25%.</p> <p>The O &amp; M Charges as quoted by the Bidder shall be paid in monthly instalments from Project Completion Date.</p>

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				The O & M Charges as quoted by the Bidder shall be paid in monthly instalments from Project Completion Date.		
17	14	Clause 1.2.7	RFP	Defect Liability Period: 1 (one) year from issuance of project Completion Certificate.	Request you to please keep the defect liability period to 6 months i.e. till O &M Period	Defect Liability Period: 2 (two) years from issuance of project Completion Certificate. Accordingly, the RFP stands amended
18	20	Clause 2.2.1 point 1.3 of Table	RFP	The Bidder to have a minimum average annual turnover of Rs. 1.5 (one point five) crore in the last 3 (three) consecutive financial years preceding the Bid Due Date and in case of a Consortium, the cumulative average turnover of the Members of Consortium would be reckoned.	Balance sheet of last financial year is still not prepared due to COVID issues. It will be compiled by Dec 2020 only as per latest revision from department and ROC. Can we satisfy the document by previous 3 years?	Yes, the Clause is modified as detailed here under:  The Bidder to have a minimum average annual turnover of Rs. 1.5 (one point five) crore in the last 3 (three), i.e., FY 2016-17, FY 2017-18 & FY 2018-19 and in case of a Consortium, the cumulative average turnover of the Members of Consortium would be reckoned.
19	21	Clause 2.2.1 point 1.4 of Table	RFP	Minimum Net Worth of Rs. 1.5 (one point five) crore at the end of preceding financial year,	Since last date of filing is 30-11-2020. We have not yet finalized with the auditing process. So, allow us to submit provisional net worth	Yes, RFP stands amended accordingly net worth at the end of FY 2018-19 will be considered.

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				i.e., 2019-20 and in case of a Consortium, both the Members put together shall have to satisfy the criteria.	certificate (may or may not be signed by CA) OR Requesting to consider 2018-19 Audited certificate	
20	21	Clause 2.2.2 point 1 of Table	RFP	Experience in developing and/or designing and constructing and operating wastewater /septage management/ waste to compost / Bio-methanation projects in India for at least 2 (two) years	Experience in developing and/or designing and constructing and operating wastewater / septage management / waste to compost / Bio-methanation projects in India for at least 1 (One) year	Amended. Refer to S No 27.
21	32	Clause 2.10.7	RFP	Bids submitted by fax, telex, telegram or e-mail shall not be entertained and shall be rejected.	Kindly confirm whether bidder has to submit hard copy of the tender submittal to client	Yes. However, the Bidder shall also submit the soft copy in CD / pen drive form of the Technical Bid.
22	8	Clause 2.1 Point (f)	Draft Contract Agreement	To install and operate borewell at the FSTP and it includes re-boring, in case of failure of water source	Kindly confirm general water table in FSTP area. How many borewell will be required?	Digging of borewell is not required, and accordingly, Clause 2.1(f) of Draft Contract Agreement stands deleted.
23	15	Clause 6.3	Draft Contract Agreement	The Performance Security shall remain in force and effect till 2	The performance security shall be released immediately after completion of defect liability period.	As per RFP.

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				(two) years from the issuance of Project Completion Certificate; provided, however, that the Performance Security shall not be released if the Contractor is in breach of this Agreement, till such time the breach is cured. Upon request made by the Contractor for release of the Performance Security along with the particulars which establish satisfaction of the requirements specified in this Clause 6.3, the Authority shall release the Performance Security.		
24	15	Clause 6.1.1	Draft Contract Agreement	The Contractor shall for the performance of its obligations provide the Authority no later than 7	--	The clause stands amended as detailed under: The Contractor shall for the performance of its obligations

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				days from the date of signing of Agreement, an irrevocable and unconditional guarantee from a Bank acceptable to the Authority for 5% of the Contract value amounting to Rs. ---- (Rupees ----- only) and in the form set forth in Schedule D. Until such time the Performance Security is provided by the Contractor pursuant hereto and the same comes into effect, the Earnest Money Deposit shall remain in force and effect, and upon provision of the Performance Security pursuant hereto, the Authority shall release the Earnest Money Deposit to the Contractor		provide the Authority no later than 7 days from the date of signing of Agreement, an irrevocable and unconditional guarantee from a Bank acceptable to the Authority for 10% of the Contract value amounting to Rs. ---- (Rupees ----- only) and in the form set forth in Schedule D. Until such time the Performance Security is provided by the Contractor pursuant hereto and the same comes into effect, the Earnest Money Deposit shall remain in force and effect, and upon provision of the Performance Security pursuant hereto, the Authority shall release the Earnest Money Deposit to the Contractor.
25	13	Clause 1.2.3	RFP	It is proposed to follow	--	It is proposed to follow



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		(Project Development Option)		technology agnostic approach for Project development and therefore, the Selected Bidder is to employ the technology option as proposed for setting up of FSTP. It is advisable to deploy proven technology or technologies and processes suggested by CPHEEO.		technology agnostic approach for Project development and therefore, the Selected Bidder is to employ the technology option as proposed for setting up of FSTP. It is advisable to deploy proven technology or technologies and processes suggested by CPHEEO / Primer on Faecal Sludge & Septage Management.
26	21	Clause 2.2.2 point 2.1 of Table	RFP	TECHNICAL CRITERIA The firm and in case of a Consortium the Lead Member to have prior experience and expertise in developing and/or designing and constructing and operating wastewater / septage management /waste to compost / Bio-methanation projects in India. The Bidder should	--	The Clause stands amended as detailed under: <b>TECHNICAL CRITERIA</b> The Firm/ Consortium, to have prior experience and expertise in designing and constructing wastewater / septage management /waste to compost / Bio-methanation projects in India. The Bidder should have commissioned at least one project of the above specified in the last 5 (five)

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				<p>have commissioned at least one project of the above specified in the last 5 (five) years.</p> <p>In case of Consortium, the criteria can be complied by any one Member of the Consortium for project development experience and the other for O&amp;M experience.</p> <p>To claim design and construction experience /operations experience, the entity claiming the experience should have been appointed/ hired directly by the relevant government /private entity for execution/operations. Any subcontracting work shall not be considered.</p>		<p>years.</p> <p>In case of Consortium, the criteria can be complied by any one Member of the Consortium for design experience and the other for construction experience.</p> <p>To claim design and construction experience, the entity claiming the experience should have been appointed/ hired directly by the relevant government /private entity for executions. Any subcontracting work shall not be considered.</p>

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27	21	Clause 2.2.2 point 1 of Table	RFP	<p>Experience in developing and/or designing and constructing and operating wastewater / septage management / waste to compost / Bio-methanation projects in India for at least 2 (two) years</p> <p>1. 1 (one) project of at least Rs. 1.5 crore value: 30 marks; and 2. More than 1 (one) project of project value more than Rs.1.5 crores: 40 marks</p> <p>In case of Consortium, the criteria can be complied by any one Member of the Consortium for development/designing and construction of the project and the other for</p>	--	<p>Experience in designing and constructing wastewater / septage management / waste to compost / Bio-methanation projects in India:</p> <p>1. 1 (one) project of at least Rs. 1 crore value: 30 marks; and 2. More than 1 (one) project of project value more than Rs.1 crores: 40 marks</p> <p>In case of Consortium, the criteria can be complied by any one Member of the Consortium for designing and the other for construction experience.</p> <p>To claim relevant designing and/or constructing experience, the entity claiming the experience should have been appointed/hired directly by the government /private entity for project execution. Subcontracting will not be</p>

Setting up of Faecal Sludge Treatment Plant of 40 KLD capacity near Navakunta Lake, Thumkunta Village, Hyderabad on Engineering, Procurement and Construction (EPC) basis with 6 months of operation and maintenance						
Consolidated Replies to Bidders' Queries / Corrigendum						
SN	Page No.	Clause No.	Document	Description of Original Clause	Query	Reply/ Corrigendum
				O&M experience.  To claim relevant development and/or designing and constructing /operations experience, the entity claiming the experience should have been appointed/hired directly by the government /private entity for project execution / operations. Subcontracting will not be considered.		considered.
28		Others	RFP	--	Tentative Cost Budgeted is not specified	As per RFP. The Bidder is expected to work out costing based on the proposed technology employed for the Project.
29		Others	RFP	--	1. Area for the FSTP is specified as one acre is specified. Kindly provide dimensions for our plotting of layout for our compound wall working and road costing.	1. Please see the document for the same (given below).  2. Latitude - 17.573147 Longitude - 78.555274

Setting up of Faecal Sludge Treatment Plant of 40 KLD capacity near Navakunta Lake, Thumkunta Village, Hyderabad on Engineering, Procurement and Construction (EPC) basis with 6 months of operation and maintenance						
Consolidated Replies to Bidders' Queries / Corrigendum						
SN	Page No.	Clause No.	Document	Description of Original Clause	Query	Reply/ Corrigendum
					2. Requesting to provide Site location Lat-long details	
30		Others	RFP		Kindly confirm the status of land allocation and possession that land is free from encumbrance / encroachment	Land allotted for FSTP is under HMWS&SB possession.
31		Others	RFP		We request you to kindly provide DPR copy for better understanding of the project	Project Information Memorandum (Annexure II) is attached with RFP for better understanding of the project
32		Others	RFP		Microbial guarantee for dewatered Biosolids as Salmonella (<3 MPN/4gm), Helminth egg (<1/gm), EColi (<1000 MPN/gm) requires expensive thermal treatment for sludge stabilization.	As per RFP. Thermal technology is not mandatory, however, State PCB norms have to be complied with regards to discharge norms/Microbial standards.
33		Others	RFP		Kindly confirm value of Moisture content of Bio-solid to be guaranteed To achieve the treated guarantee of Bio-Solids for Heavy metals (Lead - 100mg/Kg & Copper - 300 mg/Kg), please specify concentration of Lead and copper in raw Faecal sludge	As per RFP, the Operator has to comply with State Pollution Control Board and other competent authority discharge norms for solids, liquids and gaseous pollutants.

## Site layout with dimensions



## Annex 1 of Schedule B – Draft Contract Agreement

### Guidance Notes on support infrastructure

Feature	Specifications
Receiving Station	<ol style="list-style-type: none"> <li>1. The inlet of the receiving station should be placed adequately below the faecal sludge discharge outlet of the truck to enable flow through gravity</li> <li>2. The inlet of the receiving chamber must be provided with a cam-lock arrangement to securely fit the desludging pipe from the discharging truck</li> <li>3. Each receiving station should be designed to accept flow rates of 60 m<sup>3</sup> per hour from the discharging truck</li> <li>4. Receiving station must be provided with an arrangement to contain and evacuate spillage of faecal sludge during discharge from truck into the receiving inlet</li> </ol>
Hand Washing, Toilets for FSTP and desludging operators	<ol style="list-style-type: none"> <li>1. Hand washing arrangement should be available at a distance not more than 10 m from the receiving station</li> <li>2. Toilets shall be provided for workers – separately for men and women.</li> <li>3. It shall be a permanent structure and designed according to Indian Standard (IS):2064 The toilets must be well ventilated and illuminated</li> <li>4. The wastewater generated should be treated/disposed safely within the FSTP</li> </ol>
Operator room/ Reception room	The operator room/ reception room shall be a well-ventilated, permanent structure, located so as to provide a view of the entire FSTP with a toilet and bathroom.
Internal roads	<ol style="list-style-type: none"> <li>1. Internal roads should be designed for a minimum carriageway width of 3.5 m for single lane</li> <li>2. The design of the road shall be determined on the basis of the local Californian Bearing Ratio (CBR) value and the maximum tonnage of the desludging vehicle</li> <li>3. The road has to be designed according to Indian Roads Congress (IRC) and Ministry of Road Transport and Highways (MoRTH) specifications</li> <li>4. Roads should have a provision of at least 500 mm wide shoulders on either side and with arrangement for storm water evacuation</li> <li>5. The minimum turning radius for roads inside the FSTP should be 10 m</li> <li>6. Roads should be all weatherproof</li> <li>7. Ramps in road should not exceed 1:15 slopes</li> </ol>
Truck washing unit	<ol style="list-style-type: none"> <li>1. Provision to be made for the supply of treated wastewater (from the FSTP) or non- potable water for the purpose of washing</li> <li>2. High pressure jet spray equipment to be provided for washing of trucks</li> </ol>

Feature	Specifications
	3. The unit must be designed to contain, collect and treat the wastewater generated from the washing activity
Streetlighting	Streetlights have to be provided in the FSTP premises as prescribed under "Group B2" in IS:1944:1970 (Parts 1 & 2)
Compound wall	<ol style="list-style-type: none"> <li>1. The compound wall structure shall be made using prefabricated cement concrete.</li> <li>2. The design should consider the local soil, wind and storm water flow conditions</li> <li>3. The height of the compound wall shall be 2 m</li> </ol>
Storm water drainage & rainwater harvesting	<ol style="list-style-type: none"> <li>1. The FSTP premise must have a well-designed drainage system based on the natural topography of the site</li> <li>2. 50-year rainfall data should be considered for designing storm water system</li> </ol>



## Annex 2 of Schedule B – Draft Contract Agreement

### Standards to be followed for Civil works

SN	Description of Work	Reference
1	Site clearance	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 2.0: Section 2.4
2	Sub-surface soil exploration for foundations – Safe-bearing capacity test	IS:1892 and IS:2720
3	Excavation in all different soil types	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 2.0
4	Mortars	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 3.0
5	Concrete works	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 4.0
6	Reinforcement cement concrete works	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 5.0
7	Form works	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 5.0: Section 5.2
8	Masonry work	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 6.0
9	Stonework, random rubble masonry	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 7.0
10	Precast concrete block work	CPWD Specifications, Civil works – 2019,Vol 2. Section 26.43
11	Wooden and PVC doors, windows and other works	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 9.0
12	Steel works	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 10.0
13	Flooring	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 11.0
14	Roofing	CPWD Specifications, Civil works – 2019,Vol 1. Subhead 12.0
15	Plastering, painting and finishing works	CPWD Specifications, Civil works – 2019,Vol 2. Subhead 13.0
16	Water-proofing compounds	IS:2645
17	Water-proofing treatment	CPWD Specifications, Civil works – 2019,Vol 2. Subhead 22.0
18	Road works	CPWD Specifications, Civil works – 2019,Vol 2. Subhead 16.0
19	Sanitary installations	CPWD Specifications, Civil works – 2019,Vol 2. Subhead 17.0
20	Access hole and covers for maintenance	CPWD Specifications, Civil works – 2019,Vol 2. Subhead 19.0: Sections 19.3and 19.4
21	Open drains – Storm water	CPWD Specifications, Civil works – 2019,Vol 2.

SN	Description of Work	Reference
		Subhead 19.0: Section 19.6
22	Septic tanks	IS:2470
23	Dispersion trenches	CPWD Specifications, Civil works - 2019, Vol 2. Subhead 19.0: Section 19.12
24	Rainwater harvesting and tube wells	CPWD Specifications, Civil works - 2019, Vol 2. Subhead 23.0
25	Filter material for drying beds, wetlands	IS:10037 - Part 1
26	Screens for screen chamber	IS:6280
27	Underground water wastewater storage tanks	IS:3370
28	Overhead tanks	IS:12701
29	Landscaping	CPWD Specifications, Civil works - 2009, Vol 2. Subhead 23.0
30	Polycarbonate sheets for solar drying and roofing	ISO:11963:2019
31	Slow sand filters	IS:11401
32	Grit removal system	IS:6279
33	Waste stabilisation ponds	IS:5611
34	Road gullies	IS:7740
35	Filter media - sand and gravel	IS:8419 Part 1
36	Activated sludge process and modifications	IS:8413 Part 2
37	Trickling filters	IS:8413 Part 1
38	Rapid sand gravity filter	IS:8419 Part 2
39	Settling tank	IS:10261
40	Paver blocks for roads	IS:15658

#### Standards to be Followed for Mechanical and Plumbing Works

S.No	Description of Work	Reference
1	Polyvinyl Chloride (PVC), Unplasticised PVC (UPVC) and Chlorinated PVC (CPVC) pipes and fittings	IS:4985, American Society for Testing and Materials (ASTM):D2467, ASTM:D2665, IS:14735, IS:15328, IS:9271
2	Ductile Iron (DI) pipes, specials and fittings	IS:8329, IS:9523, IS:12288
3	Water plumbing	CPWD Specifications, Civil works - 2019, Vol 2. Subhead 18.0
4	Plumbing - wastewater	CPWD Specifications, Civil works - 2019, Vol 2. Subhead 19.0
5	Solid handling pumps	IS:5600
6	Process pumps	IS:5659

S.No	Description of Work	Reference
7	Submersible pumps	IS:8034
8	Foot valves, Non-Return Valve for borewells	IS:10805
9	Steel to be used for wetted parts in FSTP	IS:6911
10	Ovens and furnaces - Thermal treatment units	National Fire Protection Association 86
11	Flat belt conveyors	IS:8597
12	Agitators	IS:9522
13	Chlorination equipment	IS:10553
14	Coagulant dosing mechanism	IS:9222 Part 1
15	High Density Poly Ethylene (HDPE) pipes	IS:14333

#### Standards to be followed for Electrical works

S.No	Description of Work	Reference
1	3-phase AC motors	IS:12615, IS:325, IS:4691
2	Single-phase AC induction motors	IS:996
3	AC electricity meters	IS:722
4	Switchgear equipment and installation	IS:3072, IS:4237, IS:375, IS:10118
5	AC circuit-breaker	IS:2516
6	Power transformers	IS:2026
7	Insulating oil for transformers	IS:335
8	Batteries	IS:1652
9	General electric circuit requirements	IS:302, IS:732
10	Cables	IS:694, IS:1554
11	Earthing	IS:3043
12	Residual Current Circuit Breaker	IS:12640
13	Air blowers and centrifugal fans	IS:4894, IS:3963,
14	Invertors	IS:13314
15	Control panels - outdoors	IP 65 rating
16	Safety procedures and practices for electrical works	IS:5216
17	Waterproof electrical light fittings for outdoor units	IS:3553
18	Air break switches	IS:4064, Part 1

S.No	Description of Work	Reference
	disconnectors	
19	Conduits for wiring	IS:9537
20	Sockets and plugs	IS:1293
21	Tungsten filament lamps	IS:418
22	Fluorescent lamps	IS:2418
23	Waterproof electrical light fittings for outdoor units	IS:3553