## Addendum No. 1

S. No	Clause Ref. No.	Existing Clause	To be read as
1	Annexure A – Part h Qualification Criteria Clause 1.4 (a) 1Page 70 of 477 and Re-Invitation for Bid, S.No-2, Technical (a)Page No.5	The Bidder shall provide evidence that it has Designed, developed, built, tested and commissioned at least 1 STP of 18MLD or 2 STP of 13MLD or 3 STP of 9 MLD of the same technology as proposed for this contract under Clause 3.3 (a) of Instructions To Bidders during last 7 years preceding the month of publication of NIT.	The Bidder shall provide evidence that it has Designed, developed, built, tested and commissioned at least 1 STP of 18MLD or 2 STP of 13MLD or 3 STP of 9 MLD on any aerobic technology during the last 7 years preceding the month of publication of NIT.
2	Annexure A – Part h Qualification Criteria Clause 1.4 (a) 2 Page 70 of 477 and Re-Invitation for Bid, S.No-2, Technical (b) page no. 5	The bidder or his nominated sub-contractor has successfully Designed, developed, built, tested and commissioned at least one Sewage Treatment Plant with the same technology as proposed for this contract under clause 3.3 (a) of Instruction to Bidders for the lowest STP capacity mentioned in clause 1.4 (a) 1. above, operating successfully for a period of 1 year during the last 7 years preceding the month of publication of NIT.	The bidder or his nominated sub-contractor has successfully Designed, developed, built, tested and commissioned at least one Sewage Treatment Plant with the same technology as proposed for this contract under clause 3.3 (a) of Instruction to Bidders for the lowest STP capacity mentioned in clause 1.4 (a) 1. above, operating successfully for a period of 1 year during the last 10 years preceding the month of publication of NIT.
3	Annexure A – Part h Qualification Criteria Clause 1.4 (a) 4 Page 71 of 477 and Re-Invitation for Bid, S.No-2, Technical (d) page no. 6	The treatment technology proposed for this contract has been adopted (not necessarily built by the bidder) in at least 3 locations during last 7 years preceding the month of publication of NIT and that such STP has been operating successfully (meeting the required performance standards and environmental norms specified in the Contract) for a period of minimum 2 years over a period of last 7 years preceding the month of publication of NIT.	The treatment process technology proposed for this contract has been adopted (not necessarily built by the bidder) in at least 1 location having similar climatic conditions during last 7 years preceding the date of bid publication and that such STP has been operating successfully (meeting all the environmental norms specified in the Contract) for a period of minimum 1 year over a period of last 7 years preceding the month of publication of NIT.
4	Annexure A – Part h Qualification Criteria Clause 1.4 (a) 5 Page 70 of 477 and Re-Invitation for Bid, S.No-2, Technical (e) page no. 5	It has designed, developed, built, tested and commissioned Sewerage Network of 111 KM length of the total scope of sewerage network collectively from maximum 3 projects during the last 7 years preceding the month of publication of NIT; of which 600 mtr should be above the pipe diameter (1000mm)	It has designed, developed, built, tested and commissioned Sewerage Network of 111 KM length of the total scope of sewerage network collectively from maximum 3 projects during the last 7 years preceding the month of publication of NIT; of which 600 mtr should be above or the pipe diameter (1000mm)

5	Section 3. Preparation of Bids. 3.3.	The Owner shall make available the right of way	The Owner shall make available the right of way and the
-	Technical Section – Part I –	and the land area allocated for this facility for	land area allocated for this facility for the setting up of
	Technical and Staffing	setting up of Sewage Treatment Plant. The hidders	Sewage Treatment Plant. The bidder is required to offer STP
	Information, for STP (a).	will be free to offer STP based on a technology to	hased on ASP technology to meet the desired effluent
	(page no. 21-22)	meet the desired effluent standards, must utilizing	standard with best utilization of the partially completed STP
	(F8)	the partially completed STP infrastructure already	infrastructure already created (based on Activated Sludge
		created (based on Activated Sludge Process and	Brocoss and ovisting at site, and indicate in their hid the
		evisting at site, and indicate in their hid the actual	actual land requirement for setting up of treatment facility
		land requirement for setting up treatment facility	actual failur requirement for setting up of treatment facility
		and requirement for setting up treatment facility	as offered by them. The status of availability and ownership
		as offered by them. The status of availability and	of the land is specified in the Blu Data sheet clause.
		Chart clause	
(	Invitation for Did Cone 2 Financial	Sheet clause.	The Didden shall demonstrate by submitting clause with its
6	Invitation for Bid, S. no.2, Financial $(h)$ ( $D_{2}$ = 5, 477) and Augustum A	The Bidder shall demonstrate by submitting along	The Bidder shall demonstrate by submitting along with its
	(D) (Pages of 4/7) and Annexure A	with its bid, a banker's certificate that it has	bid, a banker's certificate that it has available cash credit
	- Part II, Qualification Criteria Clause 1 E (b) Dage 71 of 477	available cash credit facility equivalent to	facility equivalent to minimum INR 264.23 million as on the
	Clause 1.5 (D), Fage / 1 01 4/7.	minimum INR 264.23 million as onthe date of	date of submission of bid.
		submission of bid.	However, in absence of such certificate the bidder shall
			provide an undertaking that (As per annexure-1) to
			submit a banker's certificate that it has available cash
			credit facility equivalent to minimum INR 264.23 Million
			within 15 days of issuance of fetter of Awaru (LOA)
7	Invitation for Pid S no 1 (DagoE	Ministry of Water Decourses Diver	Department of Water Resources, River Development &
/	of 477) and instructions to Biddors	Development & Canga Poinwonation	Canga Polywonation Ministry of Jal Shakti Covernment
	$S_{no} = 11$ (a) Page 13 of 477	Covernment of India	of India (NMCC Point)
	5.110.1.1, (a), 1 age 15 01 +77.	dovernment of mula.	
8	Bid Data Sheet- ITB-6.5	Amount of Performance Security (9%+1%): 9 % of	Amount of Performance Security (3%+1%): 4 % of the total
Ŭ		the total Contract Price, which will be determined	Contract Price, which will be determined as under:
		as under:	Contract Price = 1) à Design and Build part as per BOO
		Contract Price = 1) $\dot{a}$ Design and Build part as per	Prices for STP + $BOO$ Prices for New/Replace
		BOO Prices for STP + $BOO$ Prices for New/Replace	Outfall/Intercentor sewer Line & Intermediate numping
		Outfall/Intercentor sewer Line & Intermediate	stations +
		numning stations +	2) a O&M part for O&M for STP for 15 years $\pm$ O&M for the
		pumping stations +	2) à O&M part for O&M for STP for 15 years + O&M for the Network & Intermediate pumping stations for 15 year. (As
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network & Intermediate numping	2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year (As per scope years)	2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years)
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental Social Health and	2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the	2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder</li> </ul>
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above.	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder soparatoly:</li> </ul>
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above. • Performance Securities can be submitted by the bidder congrately:	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately:</li> <li>(i) for the Contract Price of Design and Puille part of the security of the secur</li></ul>
		pumping stations + 2) à O&M part for O&M for STP for 15 years + O&M for the Network &Intermediate pumping stations for 15 year. (As per scope, years) Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above. • Performance Securities can be submitted by the bidder separately: (i) for the Contract Price of Decign and Puild	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately: <ul> <li>(i) for the Contract Price of Design and Build part as</li> <li>per BOO Prices for STP is POO Prices for</li> </ul> </li> </ul>
		<ul> <li>pumping stations +</li> <li>2) à O&amp;M part for O&amp;M for STP for 15 years +</li> <li>O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately:</li> <li>(i) for the Contract Price of Design and Build</li> </ul>	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately: <ul> <li>(i) for the Contract Price of Design and Build part as per BOQ Prices for STP + BOQ Prices for New (Performance)</li> </ul> </li> </ul>
		<ul> <li>pumping stations +</li> <li>2) à O&amp;M part for O&amp;M for STP for 15 years +</li> <li>O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS) Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately:</li> <li>(i) for the Contract Price of Design and Build part as per BOQ Prices for STP + BOQ</li> </ul>	<ul> <li>2) à O&amp;M part for O&amp;M for STP for 15 years + O&amp;M for the Network &amp;Intermediate pumping stations for 15 year. (As per scope, years)</li> <li>Amount of Environmental, Social, Health and Safety (ESHS)</li> <li>Performance Security = 1% of the total Contract Price to be determined as above.</li> <li>Performance Securities can be submitted by the bidder separately: <ul> <li>(i) for the Contract Price of Design and Build part as per BOQ Prices for STP + BOQ Prices for New/Replace sewer Line &amp;Intermediate pumping</li> </ul> </li> </ul>

			&Intermediate pumping stations, and	(ii) (ii) For the Contract Price of O&M part for O&M for
		(ii)	(ii) For the Contract Price of O&M part for	STP for 15 years + O&M for the Network
			O&M for STP for 15 years + O&M for the	&Intermediate pumping stations for 15 year. (As
			Network & Intermediate pumping stations	per scope, years)
			for 15 year. (As per scope, years)	
				Performance Security for Design and Build Part shall cover
			Performance Security for Design and	the period for design and build plus the first 3 years of O&M
			Build Part shall cover the period for	after completion of construction work.
			design and build plus the first 3 years of	
			O&M after completion of construction	Performance Security for the O&M Part shall be in three
			work.	years intervals to be extended/renewed up to the entire
			Performance Security for the O&M Part	O&M period. Each O&M performance security shall be
			shall be in three years intervals to be	extended/renewed within 120 days prior to the expiry of
			extended/renewed up to the entire O&M	the previous performance security
			period. Each O&M performance security	
			shall be extended/renewed within 120	
			days prior to the expiry of the previous	
			performance security	
9	Annexure A – Part h	2.1. Qu	alification Criteria	2.1. Qualification Criteria
	Qualification Criteria, Section 2	Č		
	Joint Venture Clause 2.1	a. The	Joint Venture partners shall together	a. The Joint Venture partners shall together satisfy the
		satisfy	the criteria specified in Sections 1.4 (a)	criteria specified in Sections 1.4 (a) (1), 1.4(a) (3), 1.4 (a)
		(1), 1.4	(a) (3), 1.4 (a) (5)& 1.4 (a) (6).	(5)& 1.4 (a) (6).
				b. The joint venture partners or nominated sub-
		b. The	joint venture partners or nominated sub-	contractor(s) shall satisfy the requirements specified in
		contra	ctor(s) shall satisfy the requirements	Sections 1.4(a) (2),1.4 (a) (7), 1.4 (a) (8)& 1.4 (a) (9).
		specifi	ed in Sections 1.4(a) (2),1.4 (a) (7), 1.4	
		(a) (8)	& 1.4 (a) (9).	c. The Joint Venture partners shall jointly satisfy all the
				requirements specified in Section1.4 of Qualification
		c. The	oint Venture partners shall jointly satisfy	Criteria.
		all the	requirements specified in Section1.4 of	d. For the purpose of satisfying the qualification criteria
		Qualifi	cation Criteria.	set out in Section 1.5, Joint Venture partners must satisfy
				the following qualification criteria :
		d. For	the purpose of satisfying the qualification	1. financial soundness
		criteria	a set out in Section 1.5, joint venture	a. as stated in Section 1.5(a) for all partners jointly
		partne	rs must satisfy the following qualification	b. as stated in Section 1.5 (c)in respect of each partner of
		Cinteria	1.	Life JV;
		1 finar	acial soundness	2. auequate sources to meet infancial communents as set
			iciai souliuliess	3 personnel canabilities as stated in Section 1.6 for all
		2 29 9	tated in Section 15(a) for all nartners	nartners jointly and
		iointly	accum section 1.5(a) for an partiters	4 Legal disclosure as stated in Section 1.7 for each
		Joinery		nartner of the IV.
		b. as s	tated in Section 1.5 (c)in respect of each	Note:
		partne	r of the JV;	A. Bidders exhibiting their experiences in IV shall be

		<ul> <li>2.adequate sources to meet financial commitments as set out in Section 1.5 (b)for all partners jointly;</li> <li>3. personnel capabilities as stated in Section 1.6 for all partners jointly; and</li> <li>4. Legal disclosure as stated in Section 1.7 for</li> </ul>	<ul> <li>judged in proportional to their percentage participation share of JV. Bidder to attach JV Agreement entered into during application for works in support of their experience claimed under Joint Venture arrangement.</li> <li>B. Any false representation of the experience may result in the rejection of bidder.</li> </ul>
10	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr. N 11	each partner of the JV. Providing, transportation, lowering and fixing Precast RCC circular type manhole 0.91m internal dia at bottom and 0.56m dia at top made up of precast monolithic base, modular riser, and top cone in M-40 grade Cement Concrete placed, reinforcement as per drawing (minimum 100Kg/ Cum of Concrete) and aligned to provide vertical sides, with O ring rubber gasket at each joint, water tight and adjustment rings over top cone, complete with GRP/ FRP (Heavy Duty) type manhole cover, orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mmwith minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to withstand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing as per drawing and all connections shall have a watertight seal between the pipe and the manhole complete as per standard design for depth of 0.91m including benching cement concrete of 1 : 2 : 4 (1 cement : 2 sand : 4 stone aggregate 20 mm nominal size) as per site requirements	Providing and constructing of brick masonry circular Nos. Manholes of "Type A" with internal dia 0.9m and having 230 mm thick brick masonry wall in cement sand mortar 1:4 including concreting PCC M-10 grade (1:4:8) for 225 mm thick foundation including curing compaction and form work etc. Complete, PCC M15 for benching and DáterD portion, RCC M20 for 200mm thick cover slab including reinforcement, PCC M20 for fixing the manhole frame and cover using Dáter aggregate 20 mm nominal size, 20 mm thick inside and outside plaster in CM 1:3, inside plaster finished with floating coat of neat cement, vata in CM 1:1 around pipe entering and leaving the manhole and also at the junction of masonary and concrete slab, providing and fixing of CI foot steps of approved make at every 0.3 m height fixed in CM1:3, supplying and fixing heavy duty SFRC manhole frame and cover as per IS 12592 (Part I and II) having clear opening of 560 mm, including refilling of Jhiri, including curing, watering, ramming, hydro testing of manhole, conveyance and cost of water, and dewatering complete as directed by the Engineer , Excluding excavation, barricading, timbering, shoring- strutting dewatering etc which are to be paid separately Rate for depth up to 0.9 m.
11	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.12	<b>Financial Sheet Table AB9 Sr.N.12</b> Extra depth for circular type manhole 0.91m internal dia (at bottom) beyond 0.91m but less than 1.67m for item above	Providing and constructing "Type-A" as above for depth beyond 0.90 m and upto 1.65 m with sewer brick masonary including 20mm plaster inside and outside as per drawing and direction of Engineer. Excluding excavation, barricading, timbering, shoring-strutting dewatering etc

			which are to be paid separately
12	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.13	Providing, transportation, lowering and fixing Precast RCC circular type manhole1.22m internal dia at bottom and 0.56m dia at top made up of precast monolithic base, modular riser, and top cone in M-40 grade Cement Concrete placed, reinforcement as per drawing and aligned to provide vertical sides, with O ring rubber gasket at each joint, water tight and adjustment rings over top cone, complete with GRP/ FRP (Heavy Duty) type manhole cover, orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar (minimum 100Kg/ Cum of Concrete) conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing as per drawing and all connections shall have a watertight seal between the pipe and the manhole complete as per standard design for depth of 1.68 m including benching cement concrete of 1 : 2 : 4 (1 cement : 2 sand : 4 stone aggregate 20 mm nominalsize) as per site requirments.	Providing and constructing of brick masonry circular Nos. Manholes of "Type B" with internal dia 1.2m having 230mm thick brick masonry wall upto 1.5m, 345mm thick from1.5m to 2.5m in cement sand mortar 1:4 including concreting PCC M-10 grade(1:4:8) for225 mm thick foundation including curing compaction and form work etc. Complete, PCC M15 for benching and DáterD portion, RCC M20 for200mm thick cover slab including reinforcement, PCC M20 for fixing the manhole frame and cover using Dáter aggregate 20 mm nominal size, 20 mm thick inside and outside plaster in CM 1:3, inside plaster finished with floating coat of neat cement, vata in CM1:1 around pipe entering and leaving the manhole and also at the junction of masonary and concrete slab, providing and fixing of CI foot steps of approved make at every 0.3 m height fixed in CM1:3, supplying and fixing heavy duty SFRC manhole frame and cover as per IS 12592 (Part I and II) having clear opening of 560mm, including refilling of Jhiri, including curing, watering, ramming, hydro testing of manhole, conveyance and cost of Wáter, and dewatering complete as directed by the Engineer. Excluding excavation, barricading, timbering, shoring-strutting dewatering etc which are to be paid separately Rate for depth up to 1.7 m
13	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.14	Extra depth for circular type manhole 1.220m internal dia (at bottom) beyond 1.68M and upto 2.29m	Providing and constructing extra depth of manhole Mtr. "Type-B" with sewer brick masonary including 20mm plaster inside and outside as per drawing and direction of Engineer. Excluding excavation, barricading, timbering, shoring-strutting dewatering etc which are to be paid separately for depth beyond 1.70 m and upto 2.50 m
14	Financial Sheet, IPS & Network	Providing, transportation, lowering and fixing	Providing and constructing of brick masonry circular Nos.

	Sheet, Bill of Quantities for sewerage network works, Sr.N.15	Precast RCC circular type manhole 1.52m internal dia at bottom and 0.56m dia at top made up of	Manholes of "Type C" with internal dia 1.5m and having 230mm thick brick masonry wall upto 1.5m, 345mm thick
	Sewerage network works, SLALIS	that at bottom and 0.50m that at top made up of precast monolithic base, modular riser, and top cone in M-40 grade Cement Concrete placed, reinforcement as per drawing (minimum 100Kg/ Cum of Concrete) and aligned to provide vertical sides, with O ring rubber gasket at each joint, water tight and adjustment rings over top cone, complete with GRP/ FRP (Heavy Duty) type manhole cover, orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing as per drawing and all connections shall have a watertight seal between the pipe and the manhole complete as per standard design for depth of 2.30 m including benching cement concrete of $1 : 2 : 4$ (1 cement : 2 sand : 4 stone aggregate 20 mm nominal size) as per site requirments.	from 1.5m to 2.5m and 460 from 2.5m to 5m in cement sand mortar 1:4 including concreting PCC M-10 grade (1:4:8) for 225 mm thick foundation including curing compaction and form work etc. Complete, PCC M15 for benching and Dáterd portion, RCC M20 for 200mm thick cover slab including reinforcement, PCC M20 for fixing the manhole frame and cover using Dáter aggregate 20 mm nominal size, 20 mm thick inside and outside plaster in CM 1:3, inside plaster finished with floating coat of neat cement, vata in CM1:1 around pipe entering and leaving the manhole and also at the junction of masonary and concrete slab, providing and fixing of CI foot steps of approved make at every 0.3 m height fixed in CM1:3, supplying and fixing heavy duty SFRC manhole frame and cover as per IS 12592 (Part I and II) having clear opening of 560mm, including refilling of Jhiri, including curing, watering, ramming, hydro testing of manhole, conveyance and cost of Wáter, and dewatering complete as directed by the Engineer Excluding excavation, barricading, timbering, shoring- strutting dewatering etc which are to be paid separately Rate for depth 2.6 m
15	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.16	Extra depth for circular type manhole 1.52m internal dia (at bottom) beyond 2.30m for item	Providing and constructing extra depth of manhole "Type-C" for depth beyond 2.60 m and upto 5.0 m with sewer brick masonary including 20mm plaster inside and outside as per drawing and direction of Engineer. Excluding excavation, barricading, timbering, shoring- strutting dewatering etc which are to be paid separately

16	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.17	Providing, transportation, lowering and fixing Precast RCC circular type manhole 1.82m internal dia at bottom and 0.56m dia at top made up of precast monolithicbase, modular riser, and top cone in M-40 grade Cement Concrete placed, reinforcement as per drawing and aligned to provide vertical sides, with O ring rubber gasket at each joint, water tight and adjustment rings over top cone, complete with GRP/ FRP (Heavy Duty) type manhole cover, orange colour safety foot rest of minimum 6 mm thick plastic encapsulated as per IS : 10910 on 12mm dia steel bar (minimum 100Kg/ Cum of Concrete) conforming to IS : 1786 having minimum cross section as 23 mmx25mm and over all minimum length 263 mm and width as 165mm with minimum 112 mm space between protruded legs having 2 mm tread on top surface by ribbing or chequering besides necessary and adequate anchoring projections on tail length on 138 mm as per standard drawing and suitable to with stand the bend test and chemical resistance test as per specifications and having manufacture's permanent identification mark to be visible even after fixing as per drawing and all connections shall have a watertight seal between the pipe and the manhole complete as per standard design for depth of 2.30 m including benching cement concrete of 1 : 2 : 4 (1 cement : 2 sand : 4 stone aggregate 20 mm nominal size) as per site requirements.	Providing and constructing of brick masonry circular Nos. Manholes of "Type D" with internal dia 1.8m and having 230mm thick brick masonry wall upto 1.5m, 345mm thick from 1.5m to 2.5m, 460mm from 2.5m to 5m and 575mm from 5.0m to 9.0m in cement sand mortar 1:4 including concreting PCC M-10 grade (1:4:8) for 225 mm thick foundation including curing compaction and form work etc. Complete, PCC M15 for benching and DáterD portion, RCC M20 for 200mm thick cover slab including reinforcement, PCC M20 for fixing the manhole frame and cover using Dáter aggregate 20 mm nominal size, 20 mm thick inside and outside plaster in CM 1:3, inside plaster finished with floating coat of neat cement, vata in CM1:1 around pipe entering and leaving the manhole and also at the junction of masonary and concrete slab, providing and fixing of CI foot steps of approved make at every 0.3 m height fixed in CM1:3, supplying and fixing heavy duty SFRC manhole frame and cover as per IS 12592 (Part I and II) having clear opening of 560mm, including refilling of Jhiri, including curing, watering, ramming, hydro testing of manhole, conveyance and cost of Dáter, and dewatering complete as directed by the Engineer. Excluding excavation, barricading, timbering, shoring- strutting dewatering etc which are to be paid separately Rate for depth up to 5.1 m.	
17	Financial Sheet, IPS & Network Sheet, Bill of Quantities for sewerage network works, Sr.N.18	Extra depth for circular type manhole 1.82m internal dia (at bottom) beyond 2.30m for item	Providing and constructing extra depth of manhole "Type-D" for depth beyond 5.10 m and upto 9.0 m with sewer brick masonary including 20 mm plaster inside and outside as per drawing and direction of Engineer. Excluding excavation, barricading, timbering, shoring- strutting dewatering etc which are to be paid separately	
	Note:- This is to inform that Revised Technical Sheet and Financial Sheet has been uploaded on EPROC Website.			

(Annexure\_\_\_\_

## UNDERTAKING

I \_\_\_\_\_\_ Proprietor/ Director/ Partner of M/s.\_\_\_\_\_ do hereby undertake that our firm M/s \_\_\_\_\_\_ shall submit a banker's certificate that it has available cash credit facility equivalent to minimum INR 264.23 Million , within the 15 days of issuance of Letter of Award. In case of failure to submit the said certificate, the Owner shall be entitled to take measures for annulment of the award and forfeiture of the Bid security.

Signature and seal of the Authorized Signatory

Name

Designation

Name of the Bidder