

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

ADDENDUM NO-1
OFFICE OF BJPNA, Bhiwadi
NIT No: BJPNA/EOI/01/2022-23

Item No.	Section/Clause / Item No.	Original Clause	Amended (addition/deletion) Clause
1.	SECTION-I: BIDDING DATA Clause C, Item-13	Bid security of Rs. 40.00 Lacs in form of Demand Draft drawn on any Scheduled/ commercial Bank in favour of "BJPNA", payable at Bhiwadi shall be submitted in technical proposal envelope of the bid document, if bid security of specified amount and in specified manner not available in technical proposal envelope then such bid shall be treated as non responsible and such bidders financial bid shall not be opened.	Bid security of Rs. 10.00 Lacs for Package1, Bid security of Rs. 11.00 Lacs for Package2, Bid security of Rs. 12.00 Lacs for Package3, in form of Demand Draft drawn on any Scheduled/ commercial Bank in favour of "BJPNA", payable at Bhiwadi shall be submitted in technical proposal envelope of the bid document, if bid security of specified amount and in specified manner not available in technical proposal envelope then such bid shall be treated as non responsible and such bidders financial bid shall not be opened.
2.	SECTION-I: BIDDING DATA Clause E, Item-4	The period within which the Performance Security is to be submitted by the successful Bidder and the Contract Agreement is to be signed by him from the date of issue of Letter of Acceptance is 10 Days. Contract Agreement has to be signed with the Procuring Entity. The performance security shall be submitted to value 3% of the contract value of work.	The period within which the Performance Security is to be submitted by the successful Bidder and the Contract Agreement is to be signed by him from the date of issue of Letter of Acceptance is 10 Days. Contract Agreement has to be signed with the Procuring Entity. The performance security shall be submitted to value 10% of the contract value of work.
3.	SECTION-I: BIDDING DATA Clause E, Item-7	Performance Security amounting to total 3% of agreed contract value (including 10 years agreed O&M cost) shall be submitted as follows: (i) Contractor shall submit Performance Security @ 3% in advance at the time of signing of agreement in form of BG as per latest rules. The BG should be issued by any nationalized / schedule bank and shall remain valid up to	Performance Security amounting to total 10% of agreed contract value (including 10 years agreed O&M cost) shall be submitted as follows: (iv) Contractor shall submit Performance Security @ 10% in advance at the time of signing of agreement in form of BG as per latest rules. The BG should be issued by any nationalized / schedule bank and shall remain valid up to 60 days beyond

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		<p>60 days beyond satisfactorily O&M period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and en-cashable or invokable at the Bhiwadi when presented in specified Branch Office.</p> <p>(ii) The Performance Security shall be submitted for the value 3% of the Contract amount of the work (including 10 years O&M cost).</p> <p>(iii) If there is no reason to retain the Performance Security, it shall be returned back to the contractor within 60 days after the satisfactory completion of the O&M period.</p> <p>In order to curb tendency on the part of bidders to quote rates much below NIT cost (H-Schedule and 10 years O&M cost), which are considered un-workable, it has been decided by the management of the BJPNA to take additional performance security deposit from the successful bidders, over and above 3% security deposit presently taken for successful performance of the work.</p>	<p>satisfactorily O&M period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and en-cashable or invokable at the Bhiwadi when presented in specified Branch Office.</p> <p>(v) The Performance Security shall be submitted for the value 10% of the Contract amount of the work (including 10 years O&M cost).</p> <p>(vi) If there is no reason to retain the Performance Security, it shall be returned back to the contractor within 60 days after the satisfactory completion of the O&M period.</p> <p>In order to curb tendency on the part of bidders to quote rates much below NIT cost (H-Schedule and 10 years O&M cost), which are considered un-workable, it has been decided by the management of the BJPNA to take additional performance security deposit from the successful bidders, over and above 10% security deposit presently taken for successful performance of the work.</p>
4.	SECTION-V: SCC Clause- Performance security, Item-9	<p>Performance Security amounting to total 3% of contract value (including O&M cost) shall be submitted as follows:</p> <p>(vii) Contractor shall submit Performance Security @ 3% in advance at the time of signing of agreement in form of BG . The BG should be issued by any nationalized / schedule bank and shall remain valid up to 60 days beyond satisfactorily O&M period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and en-cashable/invokable at the Bhiwadi when presented in specified Branch Office.</p> <p>(viii) The Performance Security shall be submitted for the value 3% of the Contract amount of the work (including O&M cost).</p>	<p>Performance Security amounting to total 10% of contract value (including 10 years O&M cost) shall be submitted as follows:</p> <p>(xi) Contractor shall submit Performance Security @ 10% in advance at the time of signing of agreement in form of BG . The BG should be issued by any nationalized / schedule bank and shall remain valid up to 60 days beyond satisfactorily O&M period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and en-cashable/invokable at the Bhiwadi when presented in specified Branch Office.</p> <p>(xii) The Performance Security shall be submitted for the value 10% of the Contract amount of the work (including 10 years O&M cost).</p>

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5.	<p>SECTION-II: Qualification Criteria Clause A, Item-2</p>	<p>2.1 Bidder should have experience of followings in last seven financial years (2016-17 to 2022-23); experience in current year shall also be counted up to deadline for submission of bid :-</p> <table><tr><th></th><th>Compliance Requirements</th></tr><tr><td>Experience of Supply and installation of Electromagnetic flow meter with RTU</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials.</td></tr></table>		Compliance Requirements	Experience of Supply and installation of Electromagnetic flow meter with RTU	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials.	<p>2.1 Bidder should have experience of followings in last seven financial years (2016-17 to 2022-23); experience in current year shall also be counted up to deadline for submission of bid :-</p> <table><tr><th></th><th>Compliance Requirements</th></tr><tr><td>Experience of Supply and installation of Electromagnetic flow meter, RTU, PH and TDS analyzers</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor then this condition shall be fulfilled by system integrator/distributor and his OEM also and MOU shall be submitted as per format mentioned in Section III.</td></tr></table> <p>NOTE: NOTE: Certificate of Chartered Accountant must be</p>		Compliance Requirements	Experience of Supply and installation of Electromagnetic flow meter, RTU, PH and TDS analyzers	Must meet requirement by bidder, In case bidder is system integrator/distributor then this condition shall be fulfilled by system integrator/distributor and his OEM also and MOU shall be submitted as per format mentioned in Section III.
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	<p>NOTE: NOTE: Certificate of Chartered Accountant must be submitted, clearly indicating experience based on supply / installation of flow meter, analyzers and RTU/ PLC based turnover of the firm.</p> <p>2.2 The bidder should have experience of the following in last seven financial years (2016-17 to 2022-23); experience in current year shall also be counted up to deadline for submission of bid:</p> <table><tr><th>Criteria/ Requirement</th><th>Compliance Requirements</th></tr><tr><td></td><td></td></tr><tr><td>Bidder should have experience of completed of one single similar work having minimum cost of Rs 374.0 lacs</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials..</td></tr><tr><td>OR</td><td></td></tr><tr><td>Bidder should have experience of completed of two similar works each having minimum cost of Rs 234.0 lacs</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and</td></tr></table>	Criteria/ Requirement	Compliance Requirements			Bidder should have experience of completed of one single similar work having minimum cost of Rs 374.0 lacs	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials..	OR		Bidder should have experience of completed of two similar works each having minimum cost of Rs 234.0 lacs	Must meet requirement by bidder, In case bidder is system integrator/distributor and	<p>submitted, clearly indicating experience based on supply / installation of flow meter, analyzers and RTU/ PLC based turnover of the firm.</p> <p>2.2 The bidder should have experience of the following in last seven financial years (2016-17 to 2022-23); experience in current year shall also be counted up to deadline for submission of bid:</p> <table><tr><th>Criteria/ Requirement</th><th>Compliance Requirements</th></tr><tr><td></td><td></td></tr><tr><td>Bidder should have experience of completed of one single similar work having minimum cost of Rs 200.0 lacs</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials..</td></tr><tr><td>OR</td><td></td></tr><tr><td>Bidder should have experience of completed of two similar works each having minimum cost of Rs 100.0 lacs</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their</td></tr></table>	Criteria/ Requirement	Compliance Requirements			Bidder should have experience of completed of one single similar work having minimum cost of Rs 200.0 lacs	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials..	OR		Bidder should have experience of completed of two similar works each having minimum cost of Rs 100.0 lacs	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their
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			Note:- i. Definition of similar work:- “ Supply and installation of flow meters with RTU along with other automation instruments in Water projects/ETP/STP/CETP plant.” ii. For the purpose of qualification, following shall be considered as one similar work: - a. A single purchase order value. OR b. Total Value of Separate orders for Supply /Services and installation for the same project finalized under one tender. OR c. Total Value of the Supply/ Services and installation carried out			Note:- iii. Definition of similar work:- “ Supply and installation of flow meters with RTU along with other automation and analyzers instruments in Water projects/ETP/STP/CETP plant.” iv. For the purpose of qualification, following shall be considered as one similar work: - d. A single purchase order value. OR e. Total Value of Separate orders for Supply /Services and installation for the same project finalized under one tender. OR	

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		<p>Note:-Documents required to be submitted against proof of completion:</p> <p>a. For similar work experience, the bidder shall submit Copies of Contract Document, Purchase order along with either completion certificates OR duly Certified copy of bill / Invoice in support of their experience claims. Works of Govt. /PSU/ SPV/Autonomous bodies under government sector, other than government works in India shall be considered.</p> <p>b. In case bidder submits other then govt. entity works/projects experiences, then, in the support of experience claims, bidder has to be submitted CA certificate, which showed that bidder has received</p>		<p>Note:-Documents required to be submitted against proof of completion:</p> <p>a. For similar work experience, the bidder shall submit Copies of Contract Document, Purchase order along with either completion certificates OR duly Certified copy of bill / Invoice in support of their experience claims. Works of Govt. /PSU/ SPV/Autonomous bodies under government sector, other than government works in India shall be considered.</p> <p>b. In case bidder submits other then govt. entity works/projects experiences, then, in the support of experience claims, bidder has to be submitted CA certificate, which showed that bidder has received claimed project amount as per balance sheet. Bidder shall also submit copies of work</p>	

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		<p>claimed project amount as per balance sheet. Bidder shall also submit copies of work orders, agreements and completion certificates.</p> <p>2.4 Financial Criteria:-:</p> <table><tr><th>Criteria/ Requirement</th><th>Compliance/ Requirements</th></tr><tr><td>i. Net Worth:</td><td></td></tr><tr><td>Bidder should have positive Net Worth for the Financial Year 2021-22(as per audited balance sheet), Chartered Accountant showing calculation of Net Worth must be enclosed).</td><td>Must meet requirement by bidder In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials.</td></tr><tr><td>ii. Turnover:</td><td></td></tr><tr><td>Bidder should have Turnover in any last seven Financial Years (Financial Year 2015-16 to 2021-22) should be equal to or more</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU then condition should be fulfilled by system integrator/distributor by their own credentials</td></tr></table>	Criteria/ Requirement	Compliance/ Requirements	i. Net Worth:		Bidder should have positive Net Worth for the Financial Year 2021-22(as per audited balance sheet), Chartered Accountant showing calculation of Net Worth must be enclosed).	Must meet requirement by bidder In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials.	ii. Turnover:		Bidder should have Turnover in any last seven Financial Years (Financial Year 2015-16 to 2021-22) should be equal to or more	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU then condition should be fulfilled by system integrator/distributor by their own credentials	<p>orders, agreements and completion certificates.</p> <p>2.4 Financial Criteria:-:</p> <table><tr><th>Criteria/ Requirement</th><th>Compliance/ Requirements</th></tr><tr><td>i. Net Worth:</td><td></td></tr><tr><td>Bidder should have positive Net Worth for the Financial Year 2021-22(as per audited balance sheet), Chartered Accountant showing calculation of Net Worth must be enclosed).</td><td>Must meet requirement by bidder In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials</td></tr><tr><td>ii. Turnover:</td><td></td></tr><tr><td>Bidder should have Turnover in any last seven Financial Years (Financial Year 2015-16 to 2021-22) should be equal to or more than Rs.200.0 lacs Turn over shall be considered for the works of Supply and installation of instrumentation work/ electrical works/ flow meters work/ PLC-SCADA/RTU system/analyzers along with other</td><td>Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU then condition should be fulfilled by system integrator/distributor by their own credentials</td></tr></table>	Criteria/ Requirement	Compliance/ Requirements	i. Net Worth:		Bidder should have positive Net Worth for the Financial Year 2021-22(as per audited balance sheet), Chartered Accountant showing calculation of Net Worth must be enclosed).	Must meet requirement by bidder In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their own credentials	ii. Turnover:		Bidder should have Turnover in any last seven Financial Years (Financial Year 2015-16 to 2021-22) should be equal to or more than Rs.200.0 lacs Turn over shall be considered for the works of Supply and installation of instrumentation work/ electrical works/ flow meters work/ PLC-SCADA/RTU system/analyzers along with other	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU then condition should be fulfilled by system integrator/distributor by their own credentials
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		<p>than (100% of estimated cost of bid).e.Rs.467.0 lacs</p> <p>Turn over shall be considered for the works of Supply and installation of instrumentation work/ electrical works/ flow meters work/ PLC- SCADA/RTU system along with other automation instruments/electrical works, in the support of turn over bidder should submit audited balance sheets of the last seven financial years, without which the bid may not be considered.</p> <p>Certificate of Chartered Accountant must be</p>	<p>their own credentials.</p>		<p>automation instruments/electrical works, in the support of turn over bidder should submit audited balance sheets of the last seven financial years, without which the bid may not be considered.</p> <p>Certificate of Chartered Accountant must be submitted; clearly indicating that turnover of the firm is for only above mentioned works.</p>	
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6.	SECTION-II: Qualification Criteria Clause A, Item-2	Annexure-A:- <table><tr><td>I.</td><td colspan="3">DATA SHEET FOR ELECTRO-MAGNETIC FLOW METER (EMF)</td></tr><tr><td colspan="4"></td></tr><tr><td>1.</td><td colspan="3">SITE CONDITIONS</td></tr><tr><td>i.</td><td>AMBIENT TEMPERATURE(MIN -MAX)</td><td colspan="2">4-55⁰ CENTIGRADE</td></tr><tr><td>ii.</td><td>RELATIVE HUMIDITY</td><td colspan="2">95% RH</td></tr><tr><td>2.</td><td colspan="3">PROCESS CONDITIONS</td></tr><tr><td>i.</td><td>FLUID</td><td colspan="2">Industrial Effluent</td></tr><tr><td>ii.</td><td>NORMAL/ MAX PRESSURE OF FLUID</td><td colspan="2">2 kg/cm</td></tr><tr><td>iii.</td><td>TEMPERATURE</td><td colspan="2">10 to 55 degree centigrade</td></tr><tr><td>iv.</td><td>MEASUREMENT TECHNIQUE</td><td colspan="2">FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION</td></tr><tr><td>v.</td><td>NORMAL/ MAX FLOW</td><td colspan="2">3/4 M3/hr</td></tr></table>			I.	DATA SHEET FOR ELECTRO-MAGNETIC FLOW METER (EMF)							1.	SITE CONDITIONS			i.	AMBIENT TEMPERATURE(MIN -MAX)	4-55 ⁰ CENTIGRADE		ii.	RELATIVE HUMIDITY	95% RH		2.	PROCESS CONDITIONS			i.	FLUID	Industrial Effluent		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm		iii.	TEMPERATURE	10 to 55 degree centigrade		iv.	MEASUREMENT TECHNIQUE	FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION		v.	NORMAL/ MAX FLOW	3/4 M3/hr		Annexure-A:- <table><tr><td>I.</td><td colspan="3">DATA SHEET FOR ELECTRO-MAGNETIC FLOW METER (EMF)</td></tr><tr><td colspan="4"></td></tr><tr><td>1.</td><td colspan="3">SITE CONDITIONS</td></tr><tr><td>iii.</td><td>AMBIENT TEMPERATURE(MIN- MAX)</td><td colspan="2">4-55⁰ CENTIGRADE</td></tr><tr><td>iv.</td><td>RELATIVE HUMIDITY</td><td colspan="2">95% RH</td></tr><tr><td>2.</td><td colspan="3">PROCESS CONDITIONS</td></tr><tr><td>i.</td><td>FLUID</td><td colspan="2">Industrial Effluent</td></tr><tr><td>ii.</td><td>NORMAL/ MAX PRESSURE OF FLUID</td><td colspan="2">2 kg/cm</td></tr><tr><td>iii.</td><td>TEMPERATURE</td><td colspan="2">10 to 55 degree centigrade</td></tr><tr><td>iv.</td><td>MEASUREMENT TECHNIQUE</td><td colspan="2">FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION</td></tr><tr><td>v.</td><td>NORMAL/ MAX FLOW</td><td colspan="2">DELETED</td></tr></table>			I.	DATA SHEET FOR ELECTRO-MAGNETIC FLOW METER (EMF)							1.	SITE CONDITIONS			iii.	AMBIENT TEMPERATURE(MIN- MAX)	4-55 ⁰ CENTIGRADE		iv.	RELATIVE HUMIDITY	95% RH		2.	PROCESS CONDITIONS			i.	FLUID	Industrial Effluent		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm		iii.	TEMPERATURE	10 to 55 degree centigrade		iv.	MEASUREMENT TECHNIQUE	FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION		v.	NORMAL/ MAX FLOW	DELETED	
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		3.	TECHNICAL PARTICULARS	
		i.	TYPE	ELECTROMAGNETIC MICROPROCESSOR BASED WITH INBUILT SAME OEM VERIFICATOR ENABLE CAPABILITY
		4.	SENSOR (FLOW TUBE)	
		i.	Type	FULL BORE TYPE
		ii.	PRINCIPLE	ELECTROMAGNETIC
		iii.	METER SIZE	25 mm
		iv.	END CONNECTION	FLANGED
		v.	END CONNECTION RATING	150#
		vi.	Flange Material	CS
		vii.	TUBE MATERIAL	SS 304
		viii.	DEGREE OF PROTECTION	IP 68
		ix.	COIL HOUSING	CS
		x.	CONDUCTIVITY LIMIT	20 MICRONS AND ABOVE
		xi.	GROUNDING ELECTRODE	provided inbuilt
		3.	TECHNICAL PARTICULARS	
		i.	TYPE	ELECTROMAGNETIC MICROPROCESSOR BASED WITH VERIFICATOR ENABLE CAPABILITY
		4.	SENSOR (FLOW TUBE)	
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		v.	END CONNECTION RATING	150#
		vi.	Flange Material	CS
		vii.	TUBE MATERIAL	SS 304
		viii.	DEGREE OF PROTECTION	IP 68/IP67
		ix.	COIL HOUSING	CS
		x.	CONDUCTIVITY LIMIT	20 MICRONS AND ABOVE
		xi.	GROUNDING ELECTRODE	provided inbuilt

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		xii.	LINER MATERIAL	Hard Rubber/ teflon			xii.	LINER MATERIAL	Hard Rubber/ teflon		
		xiii.	TRANSMITTER	INTERGRAL			xiii.	TRANSMITTER	INTERGRAL		
		xiv.	ELECTRODE MOC	HASTELLOY -C			xiv.	ELECTRODE MOC	SS316		
		5.	TRANSMITTER (SIGNAL CONVERTOR)				5.	TRANSMITTER (SIGNAL CONVERTOR)			
		i.	UNITS OF CALIBERATION	M3/HR			i.	UNITS OF CALIBERATION	M3/HR		
		ii.	MOC OF HOUSING AND IP ROTECTION	IP-67			ii.	MOC OF HOUSING AND IP PROTECTION	IP-67		
		iii.	ELECTRICAL CONNECTIONS	1/2" NPT(F)			iii.	ELECTRICAL CONNECTIONS	1/2" NPT(F)		
		iv.	ACCURACY	±0.5% of reading			iv.	ACCURACY	±0.5% of reading		
		v.	REPEATABILITY	±0.2% of span			v.	REPEATABILITY	±0.2% of span		
		vi.	DIAGONSTICS	Inbuilt feature to verify the readings by same OEM verifcator			vi.	DIAGONSTICS	Inbuilt feature to verify the readings by verifcator		
		vii.	MOUNTING	integral			vii.	MOUNTING	integral		
		viii.	MAX WORKING TEMPERATURE	(-20 to 60 deg C)			viii.	MAX WORKING TEMPERATURE	(-20 to 60 deg C)		
		ix.	POWER SUPPLY	24 V DC ,Integral battery (in case of power failure) with inbuilt battery life of 10 years			ix.	POWER SUPPLY	24 V DC /230V AC/ Integral battery/UPS		
		x.	OUTPUT	flow rate and totalized flow through Isolated 4 - 20 MA DC or Modbus			x.	OUTPUT	flow rate and totalized flow through Isolated 4 - 20 MA DC or Modbus		
							xi.	LOCAL DISPLAY	BACKLIT LCD DISPLAY WITH TOTALISER		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		xi.	LOCAL DISPLAY	BACKLIT LCD DISPLAY WITH TOTALISER	xii.	CABLE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND	
		xii.	CABLE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND	xiii.	Empty Pipe Detection	Required	
		xiii.	Empty Pipe Detection	Required	xiv.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED	
		xiv.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED	6. MANUFACTURER'S (OEM) DETAILS			
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		i.	MANUFACTURER (OEM)		ii.	MODEL NO.	Require	
		ii.	MODEL NO.	Require	iii.	Calibration	OEM should confirm on his letter head that above model no EMF is calibrated in his own lab which is accredited as per national/internal norms.	
		iii.	Calibration	OEM should confirm on his letter head that above model no EMF is calibrated in his own lab which is accredited as per national/internal norms.	iv.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	Require	
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

II.		DATA SHEET FOR REMOTE TRANSMISSION UNIT (RTU)	
1. SITE CONDITIONS			
i.	AMBIENT TEMPERATURE(MIN-MAX)	4-55 ⁰ CENTIGRADE	
ii.	RELATIVE HUMIDITY	95% RH	
2. PROCESS CONDITIONS			
i.	POWER SUPPLY	230v ac	
ii.	communication from instrument	Analogue and modbus	
iii.	TELEMETRING	GPRS 4G/5G	
iv.	LOCAL DISPLAY	REQUIRED with 7 inch TFT touch screen	
v.	ENSCLOUSER	IP65	
3. IO details			
i.	ANALOGUE SIGNAL	4	
ii.	COMMUNICATION	MODBUS	
iii.	MEMORY CARD	REQUIRED	
iv.	DIGITAL OUTPUT	4	

II.		DATA SHEET FOR REMOTE TRANSMISSION UNIT (RTU)	
1. SITE CONDITIONS			
i.	AMBIENT TEMPERATURE(MIN-MAX)	4-55 ⁰ CENTIGRADE	
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i.	POWER SUPPLY	230v ac	
ii.	communication from instrument	Analogue and modbus	
iii.	TELEMETRING	GPRS 4G/5G	
iv.	LOCAL DISPLAY	REQUIRED	
v.	ENSCLOUSER	IP65	
3. IO details			
i.	ANALOGUE SIGNAL	4	
ii.	COMMUNICATION	MODBUS	
iii.	MEMORY CARD	REQUIRED	
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		v.	DIGITAL INPUT	4
		vi.	SIM SLOT	REQUIRED
		vii.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED
		4. MANUFACTURER'S (OEM) DETAILS		
		i.	MANUFACTURER (OEM)	
		ii.	MODEL NO.	Require
		iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	Require
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7.	Section-IV: Procuring Entity' requirement Clause 1.0, Item-ii	Supply, installation, testing and commissioning (Civil, Mechanical, electrical, instrumentation & other necessary works) of automation and online data collecting, monitoring and data transferring to centralized control room server at CETP Bhiwadi using RTU technology in all industries including all required associated works, fixing/installation arrangements of required components/instruments/units in existing system etc including all required miscellaneous works, Installation and commencing of pump. electromagnetic flow meter, TDS analyzer, PH analyzer, RTU, electrically operated motorized on/off valve and SS316 pipe line with all required		
		Supply, installation, testing and commissioning (Civil, Mechanical, electrical, instrumentation & other necessary works) of automation and online data collecting, monitoring and data transferring to centralized control room server at CETP Bhiwadi using RTU technology in all industries including all required associated works, fixing/installation arrangements of required components/instruments/units in existing system etc including all required miscellaneous works, Installation and commencing of pump. electromagnetic flow meter, TDS analyzer, PH analyzer, RTU, electrically operated motorized on/off valve and SS316 pipe line with all required instruments/components/units for data		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		instruments/components/units for data monitoring, transferring, controlling and operate the components/instruments/units through auto mode with PLC-SCADA system at CETP Bhiwadi, including necessary Hardware or data transferring, control/operate the installed system automatically and online monitoring of required data remotely including all required associated works etc, including 10 years O&M of all components to be installed under this project/contract on Turnkey/ lump sum basis (hereinafter referred as Project or Project components).			monitoring, transferring, controlling and operate the components/instruments/units through auto mode with PLC-SCADA system at CETP Bhiwadi, including necessary Hardware or data transferring, control/operate the installed system automatically and online monitoring of required data remotely including all required associated works etc, sending the data in the form of MODBUS TCP/IP with individual industry IP and manage/control/provide/check the data with required accessories on MODSCAN software in control room at CETP, Bhiwadi with all required hardware, Gateway etc and maintain required coordination with CETP control room server and SCADA operation agency including 10 years O&M of all components to be installed/created under this project/contract on Turnkey/ lump sum basis (hereinafter referred as Project or Project components).		
8.	Section-IV: Procuring Entity' requirement Clause 2.0, Standard specifications	III.	DATA SHEET FOR PH TRANSMITTER		III.	DATA SHEET FOR PH TRANSMITTER	
		1.	SITE CONDITIONS		1.	SITE CONDITIONS	
		i.	AMBIENT TEMPERATURE(M IN-MAX)	4-55 ⁰ CENTIGRADE	i.	AMBIENT TEMPERATURE(MI N-MAX)	4-55 ⁰ CENTIGRADE
		ii.	RELATIVE HUMIDITY	95% RH	ii.	RELATIVE HUMIDITY	95% RH
		2.	PROCESS CONDITIONS		2.	PROCESS CONDITIONS	
		i.	FLUID	Eeffulent	i.	FLUID	Eeffulent
		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm2	ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm2

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		iii.	TEMPERATURE	10 to 55 degree centigrade	iii.	TEMPERATURE	10 to 55 degree centigrade
		iv.	NORMAL/ MAX FLOW	3/4 M3/hr	iv.	PH range	0-14
		3.	TECHNICAL PARTICULARS		3.	TECHNICAL PARTICULARS	
		i.	power supply	24 vdc	i.	power supply	24 vdc
		ii.	out put	4-20 Ma Dc	ii.	out put	4-20 Ma Dc
		4.	SENSOR		4.	SENSOR	
		i.	Type	FLAT GLASS	i.	Type	FLAT GLASS
		ii.	RANGE	0-14	ii.	RANGE	0-14
		iii.	temperature compensation	required	iii.	temperature compensation	required
		iv.	temp sensor	pt100/1000	iv.	temp sensor	pt100/1000
		v.	END CONNECTION RATING	threaded	v.	END CONNECTION RATING	threaded
		5.	DEGREE OF PROTECTION	IP 67	5.	DEGREE OF PROTECTION	IP 67
		6.	ELECTRICAL CONNECTIONS	1/2" NPT(F)	6.	ELECTRICAL CONNECTIONS	1/2" NPT(F)
		7.	ACCURACY	±0.5% of reading	7.	ACCURACY	±0.5% of reading
		8.	REPEATABILITY	±0.2% of span	8.	REPEATABILITY	±0.2% of span

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		9.	MOC	Rayton,glass	9.	MOC	Rayton,glass		
		10.	transmitter (SIGNAL CONVERTOR)	integral	10.	transmitter (SIGNAL CONVERTOR)	integral		
		11.	MAX WORKING TEMPERATURE	(-20 to 60 deg C)	11.	MAX WORKING TEMPERATURE	(-20 to 60 deg C)		
		12.	mounting	flow thru cell	12.	mounting	flow thru cell		
		13.	CABLE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND	13.	CABLE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND		
		14.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED	14.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED		
		15.	MANUFACTURER'S (OEM) DETAILS		15.	MANUFACTURER'S (OEM) DETAILS			
		i.	MANUFACTURER (OEM)		i.	MANUFACTURER (OEM)			
		ii.	MODEL NO.	Require	ii.	MODEL NO.	Require		
		iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	Require	iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	Require		
		IV.		DATA SHEET FOR TDS TRANSMITTER		IV.		DATA SHEET FOR TDS TRANSMITTER	

1.	SITE CONDITIONS	
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		1.	SITE CONDITIONS		i.	AMBIENT TEMPERATURE(M IN-MAX)	4-55 ⁰ CENTIGRADE
		ii.	RELATIVE HUMIDITY	95% RH	ii.	RELATIVE HUMIDITY	95% RH
		2.	PROCESS CONDITIONS		2.	PROCESS CONDITIONS	
		i.	FLUID	Eeffulent	i.	FLUID	Eeffulent
		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm2	ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm2
			TEMPERATURE	10 to 55 degree centigrade		TEMPERATURE	10 to 55 degree centigrade
		iii.	NORMAL/ MAX FLOW	3/4 M3/hr	iii.	TDS Range	500 to 10000 ppm
		3.	TECHNICAL PARTICULARS		3.	TECHNICAL PARTICULARS	
		i.	power supply	24 vdc	i.	power supply	24 vdc
		ii.	out put	4-20 Ma Dc	ii.	out put	4-20 Ma Dc
		4.	TRANSMITTER		4.	TRANSMITTER	
		i.	TYPE	Microcontroller based, 2-wire transmitter	i.	TYPE	Microcontroller based, 2-wire transmitter
		ii.	TDS FACTOR	0.1 to 1.00	ii.	TDS FACTOR	0.1 to 1.00
		iii.	DISPLAY	2 Line Dot-matrix 10 characters per line LCD			

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			display, programmable along with conversion factor.		iii.	DISPLAY	2 Line Dot-matrix 10 characters per line LCD display, programmable along with conversion factor.	
		iv.	COMMUNICATION PROTOCOL	HART Communication Protocol		iv.	COMMUNICATION PROTOCOL	4-20 ma / modbus
		v.	CURRENT OUTPUT	4-20 mA DC		v.	CURRENT OUTPUT	4-20 mA DC
		vi.	CALIBRATION	Single Point Calibration for Process		vi.	CALIBRATION	Single Point Calibration for Process
		vii.	TEMPERATURE COMPENSATION	Automatic or Manual (PT 100/ PT 1000)		vii.	TEMPERATURE COMPENSATION	Automatic or Manual (PT 100/ PT 1000)
		viii.	POWER REQUIREMENTS	12 – 36 VDC with maximum load 600 Ω @ 24 VDC		viii.	POWER REQUIREMENTS	12 – 36 VDC with maximum load 600 Ω @ 24 VDC
		ix.	ENCLOSURE MATERIAL	Die-cast Aluminium (LM6) with epoxy paint (Non - corrosive)		ix.	ENCLOSURE MATERIAL	Die-cast Aluminium (LM6) with epoxy paint (Non - corrosive)
		x.	CABLE GLANDS	1 x 1/2 " NPT – Sensor 2 x M20 - Supply & Pulse Output		x.	CABLE GLANDS	1 x 1/2 " NPT – Sensor 2 x M20 - Supply & Pulse Output
		xi.	PROTECTION CLASS	IP 67		xi.	PROTECTION CLASS	IP 67
		xii.	AMBIENT TEMPERATURE OPERATING RANGE	(-) 20 to (+) 70 deg C		xii.	AMBIENT TEMPERATURE OPERATING RANGE	(-) 20 to (+) 70 deg C
		5.	SENSOR			5.	SENSOR	
		i.	Type	2 Pole cell		i.	Type	2 Pole cell
		ii.	temperature compensation	Automatic or Manual (PT 100/ PT 1000)		ii.	temperature compensation	Automatic or Manual (PT 100/ PT 1000)
		iii.	temp sensor	Pt 100				

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		6.	DEGREE OF PROTECTION	IP 67	iii.	temp sensor	Pt 100
		7.	ELECTRODE MATERIAL	SS 316 L	6.	DEGREE OF PROTECTION	IP 67
		8.	MAX WORKING TEMPERATURE	T max = 125°C	7.	ELECTRODE MATERIAL	SS 316 L
		9.	ELECTRODE CONNECTION	¾ “ NPT(M)	8.	MAX WORKING TEMPERATURE	T max = 125°C
		10.	MANUFACTURER'S (OEM) DETAILS		9.	ELECTRODE CONNECTION	¾ “ NPT(M)
		i.	MANUFACTURER (OEM)		10.	MANUFACTURER'S (OEM) DETAILS	
		ii.	MODEL NO.	require	i.	MANUFACTURER (OEM)	
		iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	require	ii.	MODEL NO.	require
					iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by authorized person of OEM	require
		V. Mono block pumps					
				<ul style="list-style-type: none"> Pump should be suitable for applications in industrial trade effluent as per process requirement. It shall have end suction and side discharge. It should be of self-priming type. The pump shall be designed to operate satisfactorily without detrimental vibration, noise or dynamic imbalance over the required head range. The pump should be capable of developing the 	V. Mono block pumps		
					<ul style="list-style-type: none"> Pump should be suitable for applications in industrial trade effluent as per process requirement. It shall have end suction and side discharge. It should be of self-priming type. The pump shall be designed to operate satisfactorily 		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		<p>required total head at rated capacity.</p> <ul style="list-style-type: none"> • Pump casing should be finished smooth and designed so as to allow free passage of trade effluent. • Pumps should be provided with anti-friction bearings. Bearings should be grease lubricated. • Pump should be mechanical sealed. • Pump should be furnished complete with flexible coupling. • Coupling guard bolted to the base plate should be furnished. • Base plate for pump and motor should be common. Suitable holes should be provided for grouting. Foundation bolts should be complete with nuts and washers. • Hand holes should be provided in the casing to allow easy access to the impeller 	<p>without detrimental vibration, noise or dynamic imbalance over the required head range.</p> <ul style="list-style-type: none"> • The pump should be capable of developing the required total head at rated capacity. • Pump casing should be finished smooth and designed so as to allow free passage of trade effluent. • Pump shall be supplied and operated with low and high level switches for auto ON/OFF, low and high level switches shall be installed in trade effluent tank of industry to avoid dry run of pump and over flow of tank. • Pumps should be provided with anti-friction bearings. Bearings should be grease lubricated. • Pump should be mechanical sealed. • Pump should be furnished complete with flexible coupling. 	
a.	Casing :	CI	<ul style="list-style-type: none"> • Coupling guard bolted to the base plate should be furnished. 	
b.	Impeller :	CI	<ul style="list-style-type: none"> • Base plate for pump and motor should be common. 	
c.	Motor Body	Extruded Alluminium	<p>Suitable holes should be provided for grouting.</p> <p>Foundation bolts should be complete with nuts and washers.</p>	
d.	Flow	As per Design		
e.	Head	As per Design	<ul style="list-style-type: none"> • Hand holes should be provided in the casing to allow easy access to the impeller 	

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		f.	Winding	100% Copper	a.	Casing :	CI	
		g.	Base plate :	CI/MS fabricated with epoxy painted.	b.	Impeller :	CI	
						c.	Motor Body	Extruded Alluminium
						d.	Flow	As per Design
						e.	Head	As per Design
						f.	Winding	100% Copper
						g.	Base plate :	CI/MS fabricated with epoxy painted.

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

9.	Financial Proposal (BOQ)								
		BOQ (Package-1)				BOQ (Package-1)			
		Tender Inviting Authority: Bhiwadi Jal Pradushan Niwan Association.				Tender Inviting Authority: Bhiwadi Jal Pradushan Niwaran Association.			
		Name of Work: "Supply , installation and commissioning of Pump, Electromagnetic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC- SCADA system including 10 years O&M on Turnkey/ lump sum basis."				Name of Work: "Supply , installation and commissioning of Pump, Electromagnetic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC- SCADA system including 10 years O&M on Turnkey/ lump sum basis."			
		(H-Schedule)				(H-Schedule)			
		Name of Bidder :-				Name of Bidder :-			
		Sl. No.	Item Description	Rate In Figures to be quoted by the Bidder for one industry in Rs.	Total amount quoted by the bidder in Rs. For complete package	Sl. No.	Item Description	Rate In Figures to be quoted by the Bidder for one industry in Rs.	Total amount quoted by the bidder in Rs. For complete package

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			Num ber of indus tries to be cover ed unde r this pack age/ contr act	Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	Total amount for all industrie s to be covered under this contract /packag e in Rs. In words				Num ber of indus tries to be cover ed unde r this pack age/ contr act	Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	Total amount for all industrie s to be covered under this contract /packag e in Rs. In words
1	2	3	4	5 = 4 X 3	6	1	2	3	4	5 = 4 X 3	6
A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and		96			A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and		96		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC-SCADA system as per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document						making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC-SCADA system as per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document					
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications, conditions mentioned in this tender document for following years					B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications, conditions mentioned in this tender document for following years				
		B-1	For 1st year of O&M (1st year cost is fixed and cannot be changed by bidder)	145130.00	96			B-1	For 1st year of O&M (1st year O&M cost cannot be quoted lower then Rs 12000.0 per		96		
		B-2	For 2nd year of O&M (this		96								

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			year cost should not be less than previous year)						industry per year.)				
			B-3	For 3rd year of O&M (this year cost should not be less than previous year)		96			B-2	For 2nd year of O&M (this year cost should not be less than previous year)		96	
			B-4	For 4th year of O&M (this year cost should not be less than previous year)		96			B-3	For 3rd year of O&M (this year cost should not be less than previous year)		96	
			B-5	For 5th year of O&M (this year cost should not be less than previous year)		96			B-4	For 4th year of O&M (this year cost should not be less than previous year)		96	
			B-6	For 6th year of O&M (this year cost should not be less than previous year)		96			B-5	For 5th year of O&M (this year cost should not be less than previous year)		96	
			B-7	For 7th year of O&M (this year cost should not be less than previous year)		96			B-6	For 6th year of O&M (this year cost should not be less than previous year)		96	

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			should not be less than previous year)						year)				
		B-8	For 8th year of O&M (this year cost should not be less than previous year)		96			B-7	For 7th year of O&M (this year cost should not be less than previous year)		96		
		B-9	For 9th year of O&M (this year cost should not be less than previous year)		96			B-8	For 8th year of O&M (this year cost should not be less than previous year)		96		
		B-10	For 10th year of O&M (this year cost should not be less than previous year)		96			B-9	For 9th year of O&M (this year cost should not be less than previous year)		96		
								B-10	For 10th year of O&M (this year cost should not be less than previous year)		96		
		Total of (Item A+Item B)											
		Note :- 1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .											
									Total of (Item A+Item B)				

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		<p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. Rate mention in 1st year O&M (Sl.no B1) shall be fixed and cannot be changed by bidder, if bidder change/modify this fixed rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5. Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year fixed cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>6. Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.</p>	<p>Note :-</p> <p>1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .</p> <p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. 1st year O&M cost cannot be quoted lower then Rs 12000.0 per industry per year. per industry per year., if bidder quotes lower than Rs. 12000.0 per industry per year for 1st year O&M then such bidder financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5. Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>6. Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.</p>
		<p style="text-align: center;">BOQ (Package-2)</p> <p>Tender Inviting Authority: Bhiwadi Jal Pradushan Niwan Association.</p>	<p style="text-align: center;">BOQ (Package-2)</p> <p>Tender Inviting Authority: Bhiwadi Jal Pradushan Niwaran Association.</p>

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		Name of Work: "Supply , installation and commissioning of Pump, Electromagnetic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC- SCADA system including 10 years O&M on Turnkey/ lump sum basis."				Name of Work: "Supply , installation and commissioning of Pump, Electromagnetic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC- SCADA system including 10 years O&M on Turnkey/ lump sum basis."					
		(H-Schedule)				(H-Schedule)					
		N a m e o f B i d d e r :-					N a m e o f B i d d e r :-				
		Sl. N o.	Item Descriptio n	Rate In Figures to be quoted by the Bidder for one industr y in Rs.	Total amount quoted by the bidder in Rs. For complete package			Sl. N o.	Item Descriptio n	Rate In Figures to be quoted by the Bidder for one industr y in Rs.	Total amount quoted by the bidder in Rs. For complete package

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			Num ber of indus tries to be cover ed unde r this pack age/ contr act	Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	Total amount for all industrie s to be covered under this contract /packag e in Rs. In words				Num ber of indus tries to be cover ed unde r this pack age/ contr act	Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	Total amount for all industr ies to be cover ed under this contra ct/pac kage in Rs. In words
1	2	3	4	5 = 4 X 3	6	1	2	3	4	5 = 4 X 3	6
A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and		110			A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and		110		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC-SCADA system as per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document						making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/control/supervised by CETP control centre PLC-SCADA system as per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document					
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications, conditions mentioned in this tender document for following years					B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications, conditions mentioned in this tender document for following years				
		B-1	For 1st year of O&M (1st year cost is fixed and cannot be changed by bidder)	145130.00	110			B-1	For 1st year of O&M (1st year O&M cost cannot be quoted lower then Rs 12000.0 per		110		
		B-2	For 2nd year of O&M (this		110								

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			year cost should not be less than previous year)						industry per year.)				
		B-3	For 3rd year of O&M (this year cost should not be less than previous year)		110			B-2	For 2nd year of O&M (this year cost should not be less than previous year)		110		
		B-4	For 4th year of O&M (this year cost should not be less than previous year)		110			B-3	For 3rd year of O&M (this year cost should not be less than previous year)		110		
		B-5	For 5th year of O&M (this year cost should not be less than previous year)		110			B-4	For 4th year of O&M (this year cost should not be less than previous year)		110		
		B-6	For 6th year of O&M (this year cost should not be less than previous year)		110			B-5	For 5th year of O&M (this year cost should not be less than previous year)		110		
		B-7	For 7th year of O&M (this year cost should not be less than previous year)		110			B-6	For 6th year of O&M (this year cost should not be less than previous year)		110		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			should not be less than previous year)						year)				
		B-8	For 8th year of O&M (this year cost should not be less than previous year)		110			B-7	For 7th year of O&M (this year cost should not be less than previous year)		110		
		B-9	For 9th year of O&M (this year cost should not be less than previous year)		110			B-8	For 8th year of O&M (this year cost should not be less than previous year)		110		
		B-10	For 10th year of O&M (this year cost should not be less than previous year)		110			B-9	For 9th year of O&M (this year cost should not be less than previous year)		110		
			Total of (Item A+Item B)					B-10	For 10th year of O&M (this year cost should not be less than previous year)		110		
		Note :- 1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .							Total of (Item A+Item B)				

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		<p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. Rate mention in 1st year O&M (Sl.no B1) shall be fixed and cannot be changed by bidder, if bidder change/modify this fixed rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5. Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year fixed cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>6. Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.</p>	<p>Note :-</p> <p>1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .</p> <p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. 1st year O&M cost cannot be quoted lower then Rs 12000.0 per industry per year. per industry per year., if bidder quotes lower than Rs. 12000.0 per industry per year for 1st year O&M then such bidder financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5. Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>6. Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.</p>
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

[illegible]

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		Name of Bidder :-						Name of Bidder :-							
			Sl. No.	Item Description	Rate In Figures to be quoted by the Bidder for one industry in Rs.	Total amount quoted by the bidder in Rs. For complete package			Sl. No.	Item Description	Rate In Figures to be quoted by the Bidder for one industry in Rs.	Total amount quoted by the bidder in Rs. For complete package			
						Number of industries to be covered under this package/contract	Total amount for all industries to be covered under this contract /package in Rs. In figure					Total amount for all industries to be covered under this contract/package in Rs. In words	Number of industries to be covered under this package/contract	Total amount for all industries to be covered under this contract /package in Rs. In figure	Total amount for all industries to be covered under this contract/package in Rs. In words
1	2	3	4	5 = 4 X 3	6	1	2	3	4	5 = 4 X 3	6				

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

		A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/con trol/supervis ed by CETP control centre PLC- SCADA system as		111				A	Supply , installation and commissioni ng of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, RTU , Electrically operated motorized On/Off valve at outlet of each industry and making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/con trol/supervis ed by CETP control centre PLC- SCADA system as		111			
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document						per scope mentioned in Table-1 of Section-IV (Procuring Entity's Requirement) and as per all terms and conditions of this tender document				
		B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications , conditions mentioned						B	The total O&M period shall be 10 years. The annual / yearly charges during 10 years O&M of all components created under the Contract shall be done as per scope, specifications , conditions mentioned			

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			in this tender document for following years						in this tender document for following years				
	B-1	For 1st year of O&M (1st year cost is fixed and cannot be changed by bidder	145130. 00	111				B-1	For 1st year of O&M (1st year O&M cost cannot be quoted lower then Rs 12000.0 per industry per year.)		111		
	B-2	For 2nd year of O&M (this year cost should not be less than previous year)		111									
	B-3	For 3rd year of O&M (this year cost should not be less than previous year)		111				B-2	For 2nd year of O&M (this year cost should not be less than previous year)		111		
	B-4	For 4th year of O&M (this year cost should not be less than previous year)		111				B-3	For 3rd year of O&M (this year cost should not be less than previous year)		111		
	B-5	For 5th year of O&M (this		111				B-4	For 4th year of O&M (this year cost should not be less than		111		

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			year cost should not be less than previous year)						previous year)				
		B-6	For 6th year of O&M (this year cost should not be less than previous year)		111				B-5	For 5th year of O&M (this year cost should not be less than previous year)		111	
		B-7	For 7th year of O&M (this year cost should not be less than previous year)		111				B-6	For 6th year of O&M (this year cost should not be less than previous year)		111	
		B-8	For 8th year of O&M (this year cost should not be less than previous year)		111				B-7	For 7th year of O&M (this year cost should not be less than previous year)		111	
		B-9	For 9th year of O&M (this year cost should not be less than previous year)		111				B-8	For 8th year of O&M (this year cost should not be less than previous year)		111	
		B-10	For 10th year of O&M (this year		111				B-9	For 9th year of O&M (this year cost should not be less than previous		111	

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

			cost should not be less than previous year)							year)																
									B-10	For 10th year of O&M (this year cost should not be less than previous year)		111														
			Total of (Item A+ Item B)																							
		<p>Note :-</p> <p>1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .</p> <p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. Rate mention in 1st year O&M (Sl.no B1) shall be fixed and cannot be changed by bidder, if bidder change/modify this fixed rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5.Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year fixed cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>6. Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.</p>													<p>Note :-</p> <p>1. In case number of industries mentioned in this tender document/contract increase or decrease than payment shall be made only for the nos of industries work executed by contractor and verified by BJPNA as per quoted amount for one industry in column number 3 of above table .</p> <p>2. It is suggest to the bidder that financial bid shall be submitted only in the above table format , in case bidder modified the above table format then such bidders financial bid shall not be consider for evaluation purpose and shall be treated as non-responsible.</p> <p>3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.</p> <p>4. 1st year O&M cost cannot be quoted lower then Rs 12000.0 per industry per year. per industry per year., if bidder quotes lower than Rs. 12000.0 per industry per year for 1st year O&M then such bidder financial bid shall be concealed and shall not consider for financial evaluation.</p> <p>5.Rate to be quoted by bidder for 2nd year O&M should not be less than 1st year cost , same practice have to be adopted in the remaining years O&M cost. In case any year O&M rate is less than previous year O&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.</p>											

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			6.	Type of this bid is least cost basis, Lowest bidder shall be declared on the basis of lowest amount of sum of Item A+ Item B.

Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

10.		<p>i. In case of any failure in the project components, the contractor shall be rectifying it within 8 hours. After 8 hrs, for 1 hrs late duration a penalty of Rs 500/- per hour will be imposed and same shall be deducted from RA bill. In case failure in the project components beyond control of contractor then no penalty will be applicable.</p> <p>ii. In case specified data is not transferred to central server due to any failure in the project components, the contractor shall be rectify it within 8 hours. After 8 hrs, for 1 hrs late duration a penalty of Rs 500/- per hour will be imposed and same shall be deducted from RA bill. In case failure in the project components beyond control of contractor then no penalty will be applicable.</p> <p>iii. In case of variation of reading is more than the specified accuracy in this contract document, per reading. , a penalty of Rs 500/- per reading will be imposed and same shall be deducted from RA bill. In case incorrect reading in the project components beyond control of contractor then no penalty will be applicable.</p>	<p>In case of any failure in the project components, the contractor shall be rectifying it within 24 hours. After 24 hrs, for every 24 hrs late duration a penalty of Rs 50/- will be imposed and same shall be deducted from RA bill. In case failure in the project components beyond control of contractor then no penalty will be applicable.</p>
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

11.	Employment of Technical Staff and other Employees	<table><tr><th>S.No</th><th>Position required</th><th>Salary to be deducted if not engaged by contractor</th></tr><tr><td>1.</td><td>Project Supervisor/ Engineer</td><td>Rs. 30,000/- per month</td></tr><tr><td>2.</td><td>Technician</td><td>Rs. 15,000/- per month</td></tr></table>	S.No	Position required	Salary to be deducted if not engaged by contractor	1.	Project Supervisor/ Engineer	Rs. 30,000/- per month	2.	Technician	Rs. 15,000/- per month	<table><tr><th>S.No</th><th>Position required</th><th>Salary to be deducted if not engaged by contractor</th></tr><tr><td colspan="3">DELETED</td></tr></table>	S.No	Position required	Salary to be deducted if not engaged by contractor	DELETED		
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Project:- Supply , installation and commissioning of flow meters, PH analysers and TDS analysers at outlet of each industry connected with Proposed ZLD Plant , CETP Bhawadi and control and supervised by PLC- SCADA system at CETP Bhiwadi, Rajasthan including 10 years O&M on Turnkey/ lump sum basis.

12.	Clause XXXIV of section IV	The work of all type of electrical and control cables and their connections with all project components are included in contractor's scope. The contractor shall use GI pipe for fitting/cables of electrical and control cables for crossing channel, use conduit pipe for underground and cable tray for above ground electrical and control cables fittings.	Add:-Earthing of project components shall be in the scope of industry owner as per requirement.
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Note:-Reply of prebid queries and issued addendum (tabulated above) shall be applicable for all three packages-1,2&3 and superseded the same packages tenders clauses and all other terms and conditions shall remain the same as per tender documents.

**CHAIRMAN
BJPNA, BHIWADI**