ADDENDUM NO-1 OFFICE OF BJPNA, Bhiwadi

NIT No: BJPNA/EOI/01/2022-23

Item No.	Section/Claus e / Item No.	Original Clause	Amended (addition/deletion) Clause
1.	SECTION-I: BIDDING DATA Clause C, Item-13	Bid security of Rs. 40.00 Lacks 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.	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.	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,		Performance Security amounting to total 3% of agreed contract value (including 10 years agreed O&M cost) shall be submitted as follows:	Performance Security amounting to total 10% of agreed contract value (including 10 years agreed O&M cost) shall be submitted as follows:
	Item-7	(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	(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

		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.	satisfactorily O&M period. Bank Guarantee submitted against the performance guarantee, shall be unconditional and encashable or invokable at the Bhiwadi when presented in specified Branch Office.
		(ii) The Performance Security shall be submitted for the value 3% of the Contract amount of the work (including 10 years O&M cost).	(v) The Performance Security shall be submitted for the value 10% of the Contract amount of the work (including 10 years O&M cost).
		(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.	(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.
		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.	In order to curb tendency on the part of bidders to quote rates much below NIT cost (H-Schedule and 10 years 0&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.
4.	SECTION-V: SCC Clause- Performance security, Item-9	Performance Security amounting to total 3% of contract value (including O&M cost) shall be submitted as follows: (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	Performance Security amounting to total 10% of contract value (including 10 years O&M cost) shall be submitted as follows: (xi)Contractor shall submit Performance Security @ 10% in advance at the time of signing of agreement in form of
		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 encashable/invokable at the Bhiwadi when presented in specified Branch Office.	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.
		(viii) The Performance Security shall be submitted for the value 3% of the Contract amount of the work (including O&M cost).	(xii) The Performance Security shall be submitted for the value 10% of the Contract amount of the work (including 10 years O&M cost).

		Security, it shall be returned back to the contractor within 60 days after the satisfactory completion of the O&M period.		 (xiii) 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. (xiv) 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. 		
5.	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:-			seven financi	d have experience of followings in last al years (2016-17 to 2022-23); experience it shall also be counted up to deadline for f bid:- Compliance Requirements	
	SECTION- II: Qualificatio n Criteria Clause A, Item-2	Supply and installation of Electromagnetic	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.		Supply and installation of Electromagnet ic flow meter, RTU, PH and	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.

NOTE: NOTE: Certificate of Charted Accountant must be submitted, clearly indicating experience based on supply / installation of flow meter, analyzers and RTU/ PLC based turnover of the firm.

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:

Criteria/	Compliance
Requirement	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	Must meet requirement
of completed of two similar	by bidder,
works each having minimum	In case bidder is system
cost of Rs 234.0 lacs	integrator/distributor and

submitted, clearly indicating experience based on supply / installation of flow meter, analyzers and RTU/ PLC based turnover of the firm.

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:

Criteria/	Compliance Requirements
Requirement	
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	Must meet requirement by bidder,
having minimum cost of Rs 100.0 lacs	In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by system integrator/distributor by their

		submit MOU, then condition should be		own credentials.
		fulfilled by system integrator/distributor by their own credentials.	Note:- iii. Definition of si	milar
Note:- i. De	- finition of similar work:-		work:- " Supply installation of	and flow
u s	Supply and installation of		meters with RTU a	along
flo	w meters with RTU along		with other autom	ation
wit	th other automation		and anal	yzers
ins	truments in Water		instruments in V	Vater
pro	ojects/ETP/STP/CETP		projects/ETP/STP/CI	ETP
pla	int."		plant."	
ii. For	r the purpose of		iv. For the purpose	e of
qua	alification, following shall		qualification, follo	owing
be	considered as one similar		shall be considere	d as
wo	ork: -		one similar work: -	
b.	A single purchase order value. OR Total Value of Separate orders for Supply /Services and installation for the		•	
	same project finalized under one tender.			oject
С.	OR Total Value of the		finalized under tender.	one
	Supply/ Services and installation carried out		OR	

at multiple locations through a single Purchase order or multiple purchase orders finalized against one tender	
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2.3 The Bidder should have additional specific experience of the following shall also be submitted along with bid:

Criteria/ Requirement	Compliance Requirements		
	Single Entity		
Bidder or its OEM should manufacturer of Electromagnetic flow meter, portable EMF verificator/verification device and RTU, which should fulfil the specifications mentioned in annexure-A, OEM has to submit the declaration in specified format given in section III of this bid document. Note:-If the declaration from OEM of Electromagnetic flow	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by OEM by their own credentials.		

meter and RTU is not

f. Total Value of the Supply/ Services and installation carried out at multiple locations through a single Purchase order or multiple purchase orders finalized against one tender	
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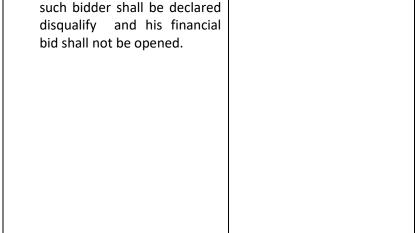
2.3 The Bidder should have additional specific experience of the following shall also be submitted along with bid:

Criteria/ Requirement	Compliance Requirements
	Single Entity
Bidder or its OEM should manufacturer of Electromagnetic flow meter, portable EMF verificator/verification device and RTU, which should fulfil the specifications mentioned in annexure-A, OEM has to submit the declaration in specified format given in section III of this bid document. Note:-If the declaration from OEM is not submitted along with technical proposal then	Must meet requirement by bidder, In case bidder is system integrator/distributor and submit MOU, then condition should be fulfilled by OEM by their own credentials.

submitted along with		S
technical proposal then such		
bidder shall be declared		b
disqualify and his financial		
bid shall not be opened.		

Note:-Documents required to be submitted against proof of completion:

- 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.
- 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



Note:-Documents required to be submitted against proof of completion:

- 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.
- 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

claimed project amount as per balance sheet. Bidder shall also submit copies of work orders, agreements and completion certificates.

2.4 Financial Criteria:-:

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		

orders, agreements and completion certificates.

2.4 Financial Criteria:-:

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

	than (100% of	their own credentials.	automation instruments/electrical
	estimated cost of	men own creatinais.	works, in the support of turn over
	bidi.e.Rs.467.0 lacs		bidder should submit audited
	blut.e. RS.407.0 facs		
	Turn over shall be		balance sheets of the last seven
	considered for the		financial years, without which the
	works of Supply		bid may not be considered.
	and installation of		Certificate of Charted Accountant
	instrumentation		must be submitted; clearly
	work/ electrical		
	works/ flow meters		indicating that turnover of the
	work/ PLC-		firm is for only above mentioned
	SCADA/RTU		works.
	system along with		
	other automation		
	instruments/electri		
	cal 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.		
	Certificate of		
	Charted		
	Accountant must be		

6.	CECTION	i t	ndicating that urnover of the firm s for only above mentioned works.						
0.	SECTION- II:	Anne	exure-A:-			Annex	kure-A:-		
	Qualificatio n Criteria	I.		ET FOR ELECTRO-MAGNETI LOW METER (EMF)	С	l.	DATA SHEE	FOR ELECTRO-MAGNETIC FLOW METER (EMF)	
	Clause A, Item-2	1.	SITE CONDITIONS			1.	SITE CONDITIONS		
		i.	AMBIENT TEMPERATURE(MIN -MAX)	4-55 ⁰ CENTIGRADE		iii.	AMBIENT TEMPERATURE(MIN- MAX)	4-55 ⁰ CENTIGRADE	
		ii.	RELATIVE HUMIDITY	95% RH		iv.	RELATIVE HUMIDITY	95% RH	
		2.	PROCESS CONDITION	NS		2.	PROCESS CONDITIO	ESS CONDITIONS	
		i.	FLUID	Industrial Effluent		i.	FLUID	Industrial Effluent	
		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm		ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm	
		iii.	TEMPERATURE	10 to 55 degree centigrac	de	iii.	TEMPERATURE	10 to 55 degree centigrade	
		iv.	MEASUREMENT TECHNIQUE	FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION		iv.	MEASUREMENT TECHNIQUE	FARADAY'S LAW OF ELECTROMAGNETIC INDUCTION	
		V.	NORMAL/ MAX FLOW	3/4 M3/hr		V.	NORMAL/ MAX FLOW	DELETED	

3.	TECHNICAL PARTICULARS								
i.	ТҮРЕ	ELECTROMAGNETIC MICROPROCESSOR BASED WITH INBUILT SAME OEM VERIFICATOR ENABLE CAPABILITY							
4.	SENSOR (FLOW TUBI	≣)							
i.	Туре	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.	ТҮРЕ	ELECTROMAGNETIC MICROPROCESSOR BASED WITH VERIFICATOR ENABLE CAPABILITY							
4	SENSOR (FLOW TUBE)								
i.	Туре	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/IP67							
ix.	COIL HOUSING	CS							
X.	CONDUCTIVITY LIMIT	20 MICRONS AND ABOVE							
xi.	GROUNDING ELECTRODE	provided inbuilt							

			_				
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 (SIGN	AL CONVERTOR)		5.	TRANSMITTER (SIGNA	L CONVERTOR)	
i.	UNITS OF CALIBERATION	M3/HR		i.	UNITS OF CALIBERATION	M3/HR	
ii.	MOC OF HOUSING AND IP ROTECTION	IP-67	ii.	ii MOC OF HOUSING		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 verificator		vi.	DIAGONSTICS	Inbuilt feature to verify the readings by verificator	
vii.	MOUNTING	integral		vii.	MOUNTING	integral	
viii.	MAX WORKING	(-20 to 60 deg C)		viii.	MAX WORKING TEMPERATURE	(-20 to 60 deg C)	
ix.	TEMPERATURE 24 V DC ,Integral battery (in case of power failure) with inbuilt				POWER SUPPLY	24 V DC /230V AC/ Integral battery/UPS	
х.	OUTPUT	battery life of 10 years flow rate and totalized flow through Isolated 4 - 20 MA		x.	OUTPUT	flow rate and totalized flow through Isolated 4 - 20 MA DC or Modbus	
		DC or Modbus		хi.	LOCAL DISPLAY	BACKLIT LCD DISPLAY WITH TOTALISER	

				BACKLIT LCD DISPLAY WITH				1/2" NPTWITH DOUBLE	
		xi.	LOCAL DISPLAY	TOTALISER		xii.	CABLE ENTERIES	COMPRESSION GLAND	
		xii.	CABLE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND		xiii.	Empty Pipe Detection	Required	
		xiii. Empty Pipe Required xiv.		xiv.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED			
		xiv.	viv TAG DI ATE 1 - 1	SS TAG PLATE SHALL BE PROVIDED			AAANUFACTURERIS (O		
		6.	MANUFACTURER'S (OEM) DETAILS			6.	MANUFACTURER'S (OEM) DETAILS		
		i.	MANUFACTURER			i.	MANUFACTURER (OEM)		
			(OEM)		-	ii.	MODEL NO.	Require	
		ii.	MODEL NO.	Require	 			OEM should confirm on his	
		iii.	iii. Calibration Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is accredited as per national/internal norms. Calibrated in his own lab which is acc	iii.	Calibration	letter head that above model no EMF is calibrated in his own lab which is accredited as per national/international norms.			
		iv.			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		

II.		DATA SHEET	FOR REMOTE TRANSMISSIO UNIT (RTU)	N	II.		DATA SHEE	FOR REMOTE TRANSMISSION UNIT (RTU)	
1	SITE CO	NDITIONS			1.	. SITE CONDITIONS			
i.	AMBIEN TEMPER MAX)	NT RATURE(MIN-	4-55 ⁰ CENTIGRADE		i.	AMBIEN TEMPER MAX)	IT RATURE(MIN-	4-55 ⁰ CENTIGRADE	
ii.	RELATIV	/E HUMIDITY	95% RH		ii.	RELATIV	E HUMIDITY	95% RH	
2	PROCES	SS CONDITIONS			2.	PROCES	S CONDITIONS		
i.	POWER	SUPPLY	230v ac		i.	POWER	SUPPLY	230v ac	
ii.	commu instrum	nication from ent	Analogue and modbus		ii.	commu instrum	nication from ent	Analogue and modbus	
iii.	TELEME	TRING	GPRS 4G/5G		iii.	TELEME	TRING	GPRS 4G/5G	
iv.	LOCAL [DISPLAY	REQUIRED with 7 inch TFT touch screen		iv.	LOCAL [DISPLAY	REQUIRED	
V.	ENSCLO	USER	IP65		v.	ENSCLO	USER	IP65	
3	. IO deta	ils			3.	IO deta	IO details		
i.	ANALO	GUE SIGNAL	4		i.	ANALO	GUE SIGNAL	4	
ii.	СОММ	UNICATION	MODBUS		ii.	сомми	JNICATION	MODBUS	
iii.	МЕМОЯ	RY CARD	REQUIRED		iii.	MEMOR	RY CARD	REQUIRED	
iv.	DIGITAL	OUTPUT	4		iv.	DIGITAL	. OUTPUT	4	

		v.	DIGITAL INPUT	4	V.	DIGITAL INPUT	4
		vi.	SIM SLOT	REQUIRED	vi.	SIM SLOT	REQUIRED
		vii.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED	vii.	TAG PLATE	SS TAG PLATE SHALL BE PROVIDED
		4	MANUFACTURER'S (OF	EM) DETAILS	4.	. MANUFACTURER'S (OEI	M) 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
7.	Section-IV: Procuring Entity' requirement Clause 1.0, Item-ii	works) and d CETP all red of red etc ind comm analyz	nical, electrical, instruit of automation and or ata transferring to cente ata transferring RTU techniquired associated works, buired components/instructuding all required miscentering of pump. electer, PH analyzer, RTU,	and commissioning (Civil, mentation & other necessary aline data collecting, monitoring tralized control room server at nology in all industries including fixing/installation arrangements uments/units in existing system cellaneous works, Installation and tromagnetic flow meter, TDS electrically operated motorized pipe line with all required	electric and o centra techno fixing/ compo require pump. RTU, e	cal, instrumentation & other nline data collecting, mo lized control room serve blogy in all industries inclu- installation arrange nents/instruments/units in ed miscellaneous works, electromagnetic flow me electrically operated motor	commissioning (Civil, Mechanical, er necessary works) of automation nitoring and data transferring to er at CETP Bhiwadi using RTU ding all required associated works, ements of required n existing system etc including all Installation and commencing of eter, TDS analyzer, PH analyzer, rized on/off valve and SS316 pipe nents/components/units for data

		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 Hardward 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 (hereinafted referred as Project or Project components).					e e e e e e e e e e e e e e e e e e e	SCADA s data tr automati including form of manage/ on MODS required coordina agency installed/	capacitation and capacitations are controlled and capacitations and capacitations are controlled associated works etc., sending the capacitation and controlled associated works etc., sending the capacitation and capacitation and capacitations are capacitated works etc., sending the capacitation and capacitation are capacitated works etc., sending the capacitation and capacitation associated works etc., sending the capacitation and capacitation with capacitation and capacitation are capacitation as a capacitation with capacitation and capacitation are capacitation as a capacitation and capacitation are capacitation as a capacitation and capacitation are capacitation and capacitation are capacitation and capacitation and capacitation and capacitation and capacitation are capacitation and capacita				
8.	Section-IV: Procuring Entity'	III.			HEET FOR PH NSMITTER			III.			HEET FOR PH NSMITTER		
	requirement Clause	1.	SITE C	CONDITIONS				1.	SITE C	ONDITIONS			
	2.0, Standard specification	i.	AMBII TEMPI IN-MA	ERATURE(M	4-55 ⁰ CENTIGR	ADE		i.	AMBIE TEMPI N-MAX	ERATURE(MI	4-55 ⁰ CENTIGRADE		
	S	ii.	RELAT HUMII		95% RH			ii.	RELAT HUMII		95% RH		
		2.	PROCI	ESS CONDITIO	ONS			2.	PROCE	ESS CONDITIO	NS		
		i.	FLUID	•	Eeffulent			i.	FLUID		Eeffulent		
		ii.		IAL/ MAX SURE OF	2 kg/cm2			ii.		AL/ MAX URE OF	2 kg/cm2		

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 PART	ICULARS	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.	Туре	FLAT GLASS	i.	Туре	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

								,	
	9.	MOC	Rayton,glass		9.	MOC		Rayton,glass	
	10.	(integral		10		nitter (SIGNAL /ERTOR)	integral	
	11.	CONVERTOR) MAX WORKING TEMPERATURE	(-20 to 60 deg C)	11		WORKING PERATURE	(-20 to 60 deg C)		
	12. mounting flow thru cell 13. CABLE ENTERIES 1/2" NPTWITH DOUBLE COMPRESSION GLAND 14. TAG PLATE SS TAG PLATE SHALL	12.	mount	ing	flow thru cell				
		13.	CABL	LE ENTERIES	1/2" NPTWITH DOUBLE COMPRESSION GLAND				
		14	TAG PLATE		SS TAG PLATE SHALL BE PROVIDED				
	15. MANUFACTURER'S (OE			BE PROVIDED M) DETAILS		MANUFACTURER'S (OEM) DETAILS			
	i.	MANUFACTURER			i.	MANU (OEM)	JFACTURER)		
	ii.	(OEM) MODEL NO.	Require	\parallel	ii.	MODE		Require	
	iii.	MANUFACTURER'S (OEM) CATALOGUE shall be submitted with support letter of OEM on OEM letter head and shall be signed by	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	
		authorized person of OEM					Г		
	IV.		A SHEET FOR TDS RANSMITTER				DATA SHEET	FOR TDS TRANSMITTER	
			KANSWIIIEK		1.	SITE	CONDITIONS		

1	SITE CONDITIONS		i.	AMBIENT TEMPERATURE(M	4-55 ⁰ CENTIGRADE
i.	AMBIENT TEMPERATURE(MIN-MAX)	4-55 ⁰ CENTIGRADE	ii.	IN-MAX) RELATIVE HUMIDITY	95% RH
ii.	RELATIVE HUMIDITY	95% RH	2.	PROCESS CONDITIO	DNS
2	PROCESS CONDIT	IONS	i.	FLUID	Eeffulent
i.	FLUID	Eeffulent	ii.	NORMAL/ MAX PRESSURE OF	2 kg/cm2
ii.	NORMAL/ MAX PRESSURE OF FLUID	2 kg/cm2		FLUID TEMPERATURE	10 to 55 degree centigrade
	TEMPERATURE	10 to 55 degree centigrade	iii.	TDS Range	500 to 10000 ppm
iii.	NORMAL/ MAX FLOW	3/4 M3/hr	3.	TECHNICAL PARTIC	CULARS
3.	TECHNICAL PART	ICULARS	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.	ТҮРЕ	Microcontroller based, 2-wire transmitter
i.	ТҮРЕ	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			

iv.	COMMUNICATIO	display, programmable along with conversion factor. HART Communication	iii.	DISPLAY	2 Line Dot-matrix 10 characters per line LCD display, programmable along with conversion factor.
V.	N PROTOCOL CURRENT OUTPUT	Protocol 4-20 mA DC	iv.	COMMUNICATION PROTOCOL	4-20 ma / modbus
vi.	CALIBRATION	Single Point Calibration for Process	V.	CURRENT OUTPUT	4-20 mA DC
vii.	TEMPERATURE COMPENSATION	Automatic or Manual (PT 100/ PT 1000)	vi.	CALIBRATION	Single Point Calibration for Process
viii.	POWER REQUIREMENT	$12 - 36$ VDC with maximum load 600Ω @ 24	vii.	TEMPERATURE COMPENSATION	Automatic or Manual (PT 100/ PT 1000)
	S	VDC Die-cast Aluminium (LM6)	viii.	POWER REQUIREMENTS	12 – 36 VDC with maximum load 600 Ω @ 24 VDC
ix.	ENCLOSURE MATERIAL	with epoxy paint (Non - corrosive)	ix.	ENCLOSURE MATERIAL	Die-cast Aluminium (LM6) with epoxy paint (Non -
X.	CABLE GLANDS	1 x ½ " NPT – Sensor 2 x M20 – Supply & Pulse Output	Х.	CABLE GLANDS	corrosive) 1 x ½ " NPT – Sensor 2 x M20 - Supply & Pulse
xi.	PROTECTION CLASS	IP 67	Λ.	PROTECTION	Output Supply & Tuise
	AMBIENT		xi.	CLASS	IP 67
xii.	TEMPERATURE OPERATING RANGE	(-) 20 to (+) 70 deg C	xii.	AMBIENT TEMPERATURE OPERATING	(-) 20 to (+) 70 deg C
5.	SENSOR			RANGE	
i.	Type	2 Pole cell	5.	SENSOR	
ii.	temperature compensation	Automatic or Manual (PT 100/ PT 1000)	i.	Туре	2 Pole cell
iii.	temp sensor	Pt 100	ii.	temperature compensation	Automatic or Manual (PT 100/ PT 1000)

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	3/4 " NPT(M)	8.	MAX WORKING TEMPERATURE	T max = 125°
10.	MANUFACTURER'S (OEM) DETAILS	9	ELECTRODE	3/4 " NPT(M)
i.	MANUFACTURER			CONNECTION	` ′
	(OEM)		10	MANUFACTURER'S (O	EM) DETAILS
ii.	MODEL NO.	require	l i.	MANUFACTURER	
	MANUFACTURER'S		'	(OEM)	
	(OEM) CATALOGUE		ii.	MODEL NO.	require
iii.	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
	Mono block pumps				L
•	Pump should be suital	ole for applications in			

- 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

Mono block pumps

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

 $T \max = 125^{\circ}C$

- self-priming type.
- The pump shall be designed to operate satisfactorily

	• a.	Pump casing should so as to allow free Pumps should be pumps. Bearings Pump should be more pump should be further coupling. Coupling guard bold furnished. Base plate for pump Suitable holes should be foundation bolts should be should be should be foundation bolts should be foundation bolts.	rnished complete with flexible ted to the base plate should be pand motor should be common. If the provided for grouting, hould be complete with nuts and the provided in the casing to allow	without detrimental vibration, noise or dynamic imbalance over the required head range. 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. Coupling guard bolted to the base plate should be furnished.
	С.	Motor Body	Extruded Alluminium	Base plate for pump and motor should be common. Suitable holes should be provided for grouting. Foundation bolts should be complete with nuts and
	d.	Flow	As per Design	washers.
	e.	Head	As per Design	Hand holes should be provided in the casing to allow easy access to the impeller

	f.	Winding	100% Copper	a.	Casing :	СІ		
	g.	Base plate :	CI/MS fabricated with epoxy painted.	b.	Impeller :	CI		
				C.	Motor Body	Extru	ded Alluminium	
				d.	Flow	As pe	r Design	
				e.	Head	As pe	r Design	
				f.	Winding	100%	Copper	
				g.	Base plate :	CI/MS	S fabricated with epoxy ed.	

9.								
Financial Proposal			BOQ (I	Package-1)			BOQ (I	Package-1)
(BOQ)	1 1	der Inviting <i>I</i> ociation.	Authority:	Bhiwadi Jal Pradushan Niwa	1 1	nder Inviting	Authority:	Bhiwadi Jal Pradushan Niwaran
	Nar of F ana	me of Work: ' Pump, Electro llyzers, RTU ,	magnetic f Electrically	nstallation and commissionir flow meters, PH analyzers, T y operated motorized On/Off	Nar of F	me of Work: Pump, Electro Ilyzers, RTU ,	magnetic f	nstallation and commissioning flow meters, PH analyzers, TDS y operated motorized On/Off
	insp	oection cham I real time dat	ber of CETI ta transfer	ustry and making connection P conveyance system Bhiwad //control/supervised by CETF	insp	pection cham I real time da	ber of CETI ta transfer	P conveyance system Bhiwadi /control/supervised by CETP
		M on Turnkey		A system including 10 years m basis."		M on Turnkey		n system including 10 years m basis."
			(H-S	Schedule)			(H-S	Schedule)
	N a m				N a m			
	e of				e of			
	Bi dd er				Bi dd er			
	:-				:-			
	SI. 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 complet package		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

			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
А	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		

making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/con	making connection to inspection chamber of CETP conveyance system Bhiwadi and real time data transfer/con	
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	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	

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, specification s , conditions mentioned in this tender document for following years For 1st year			В	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, specification s , conditions mentioned in this tender document for following years For 1st year		
of O&M (1st year B- cost is 1 fixed and cannot be changed by bidder	145130. 00 96		B+ 1	of O&M (1st year O&M cost cannot be quoted lower then Rs	96	
B- For 2nd year 2 of O&M (this				12000.0 per		

	year cost should not				industry per year.)		
B-	be less than previous year) For 3rd year of O&M (this year cost should not	96		B+ 2	For 2nd year of O&M (this year cost should not be less than previous year)	96	
3	be less than previous year) For 4th year			B-	For 3rd year of O&M (this year cost should not	96	
B- 4	of O&M (this year cost should not be less than	96		3	be less than previous year)	70	
	previous year) For 5th year			B-	For 4th year of O&M (this year cost should not	96	
B- 5	of O&M (this year cost should not be less than	96			be less than previous year) For 5th year		
	previous year) For 6th year			- B-	of O&M (this year cost should not	96	
B- 6	of O&M (this year cost should not	96		5	be less than previous year)	-	
	be less than previous year) For 7th year			B- 6	For 6th year of O&M (this year cost should not	96	
B- 7	of O&M (this year cost	96			be less than previous		

should not be less than previous year) For 8th year of O&M (this year cost should not				- B- 7	year) For 7th year of 0&M (this year cost should not be less than previous year)	96	
be less than previous year) For 9th year of O&M (this year cost should not				B- 8	For 8th year of O&M (this year cost should not be less than previous year)	96	
be less than previous year) For 10th year of O&M (this year B- cost should	96			B. 9	For 9th year of O&M (this year cost should not be less than previous year)	96	
10 not be less than previous year) Total of (Item A+Item B)				B- 10	For 10th year of 0&M (this year cost should not be less than previous	96	
document/contraction be made only for contractor and vertical contractor.	er of industries m t increase or decre the nos of indu rified by BJPNA as column number	ease than paym stries work exe per quoted an	nent shall ecuted by mount for	To	year) otal of (Item A+Item B)		

nancial evaluation. Type of this bid is least cost basis, Lowest bidder shall be eclared on the basis of lowest amount of sum of Item A+tem B. BOQ (Package-2) Tender Inviting Authority: Bhiwadi Jal Pradushan Niwar	then such bidder financial bid shall be concealed and shall not consider for financial evaluation. 5. Rate to be quoted by bidder for 2 nd year O&M should not be less than 1 st 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. 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. BOQ (Package-2)
ssociation.	Tender Inviting Authority: Bhiwadi Jal Pradushan Niwaran Association.
ssociation	
, , ,	DOO (Deckers 2)
e te	clared on the basis of lowest amount of sum of Item A+m B. BOQ (Package-2)

of P ana valv insp and con	Pump, Electron lyzers, RTU, ve at outlet of pection chaml real time dat	magnetic f Electrically each indu ber of CET ta transfer .C- SCADA / lump sui		Scon me oEle i out ins Bhi tra	nmissioning o ters, PH analy ctrically opera let of each ind pection chami wadi and real nsfer/control	of Pump, El yzers, TDS ated motor dustry and ber of CET I time data /supervise stem inclu um basis."	ectromagnetic flow analyzers, RTU , rized On/Off valve at making connection to P conveyance system ed by CETP control centre ding 10 years O&M on
N a m e of Bi dd er		(H-\$	Schedule)	N a m e of Bi dd er		(H-\$	Schedule)
SI. N	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		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

			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 amoun t for all industr ies to be covere d 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		

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 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/con trol/supervis ed 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	
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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, specification s , conditions mentioned in this tender document for following years			В	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, specification s , conditions mentioned in this tender document for following years		
For 1st year of O&M (1st year B- cost is fixed and cannot be changed by bidder	145130. 00 11	10	B- 1	For 1st year of O&M (1st year O&M cost cannot be quoted lower then Rs	110	
B- For 2nd year 2 of O&M (this		10		12000.0 per		

		year cost should not					industry per year.)		
		be less than previous year)					For 2nd year of O&M (this year cost		
	B- 3	For 3rd year of O&M (this year cost should not	110			8- 2	should not be less than previous year)	110	
	3	be less than previous year)				B-	For 3rd year of O&M (this year cost should not	110	
	B- 4	For 4th year of O&M (this year cost should not	110			3	be less than previous year)	110	
	4	be less than previous year)				B-	For 4th year of O&M (this year cost	110	
	B- 5	For 5th year of O&M (this year cost should not	110			4	should not be less than previous year)	110	
		be less than previous year)				 B₁	For 5th year of O&M (this year cost	110	
	B- 6	For 6th year of O&M (this year cost should not	110			5	should not be less than previous year)	110	
	0	be less than previous year)				B-	For 6th year of O&M (this year cost	110	
	B- 7	For 7th year of O&M (this year cost	110			6	should not be less than previous		

D.	should not be less than previous year) For 8th year of O&M (this year cost					B- 7	year) For 7th year of O&M (this year cost should not be less than previous	110	
B- 8	should not be less than previous year) For 9th year of O&M (this		110			B. 8	year) For 8th year of O&M (this year cost should not be less than	110	
B- 9	year cost should not be less than previous year) For 10th		110			B-	previous year) For 9th year of O&M (this year cost should not	110	
B- 10	year of O&M (this year cost should not be less than previous		110			9	be less than previous year) For 10th year of O&M (this year		
To	year) otal of (Item A+Item B)					B- 10	cost should	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 .							otal of (Item A+Item B)		

- 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.
- 3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.
- 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.
- 5.Rate to be quoted by bidder for 2^{nd} year 0&M should not be less than 1^{st} year fixed cost , same practice have to be adopted in the remaining years 0&M cost. In case any year 0&M rate is less than previous year 0&M rate then such financial bid shall be concealed and shall not consider for financial evaluation.
- 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.

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 .
- 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.
- 3. During O&M period payment shall be made to the contractor on monthly basis as per yearly quoted rates.
- 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.
- 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.
- 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

O&M on Turnkey/ lump sum basis. **BOQ** (Package-3) Tender Inviting Authority: Bhiwadi Jal Pradushan Niwar Association. Name of Work: "Supply, installation and commissionin of Pump, Electromagnetic flow meters, PH analyzers, TI **BOQ** (Package-3) Tender Inviting Authority: Bhiwadi Jal Pradushan analyzers, RTU, Electrically operated motorized On/Off Niwaran Association. valve at outlet of each industry and making connection Name of Work: "Supply, installation and inspection chamber of CETP conveyance system Bhiwad and real time data transfer/control/supervised by CETP commissioning of Pump, Electromagnetic flow control centre PLC- SCADA system including 10 years meters, PH analyzers, TDS analyzers, RTU, **O&M** on Turnkey/ lump sum basis." 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 (H-Schedule) transfer/control/supervised by CETP control centre PLC- SCADA system including 10 years O&M on Turnkey/ lump sum basis." (H-Schedule)

	N a m e of Bi dd er						N a m e of Bi dd er					
	SI. N o.	Item Descriptio n	Rate In Figures to be quoted by the Bidder for one industr y in Rs.		Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	r complete ge Total amount for all industrie s to be covered under this contract/ package in Rs. In words		Item Descriptio n	Rate In Figures to be quoted by the Bidder for one industr y in Rs.	the b	Total amount for all industri es to be covered under this contract /packag e in Rs. In figure	s. For
	1	2	3	4	5 = 4 X 3	6	1	2	3	4	5 = 4 X 3	6

in an congress of the congress	Supply , installation and sommissioning of Pump, Electromagn etic flow meters, PH analyzers, TDS analyzers, ETU , Electrically operated motorized on/Off valve at outlet of each modustry and making connection or inspection chamber of EETP conveyance ystem Shiwadi and eal time lata ransfer/con rol/supervis	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/control/supervise	111	
Bi re da tr tr ec cc	Bhiwadi and eal time lata				Bhiwadi and real time data		

	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		
В	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, specification s conditions mentioned			В	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, specification s , conditions mentioned		

	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	111	
B- 2	For 2nd year of O&M (this year cost should not be less than previous year)		111		12000.0 per industry per year.) For 2nd year of O&M (this year cost		
B- 3	For 3rd year of O&M (this year cost should not be less than		111	2 2	should not be less than previous year) For 3rd year	111	
B- 4	previous year) For 4th year of O&M (this year cost should not		111	3	of O&M (this year cost should not be less than previous year)	111	
B- 5	be less than previous year) For 5th year of O&M (this		111	B-	For 4th year of O&M (this year cost should not be less than	111	

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

cost should						year)									
not be less						For 10th									
than						year of O&M									
previous						(this year									
year)					B-	cost should		111							
Total of (Itams					10	not be less		111							
Total of (Item						than									
A+Item B)						previous									
						year)									
Note				:-	T	tal of (Itam									
1. In case numbe	er of indust	ries mer	ntioned in	this tender	10	otal of (Item A+Item B)									
locument/contract	increase or	r <mark>decrea</mark> s	se than pay	ment shall		A+Itelli b)									
e made only for	the nos of	f industri	ies work e	xecuted by											
contractor and ver	rified by BJF	NA as p	er quoted	amount for	Not	Note									
one industry in	column nı	3 of abov	e table .	1. In case number of industries mentioned in this tender											
2. It is suggest	to the bidd	financial bi	d shall be	document/contract increase or decrease than payment shall be											
submitted only in	the above	rmat , in o	ase bidder	made only for the nos of industries work executed by contractor											
modified the abov	e table form	nat then	such bidde	rs financial	and verified by BJPNA as per quoted amount for one industry i										
oid shall not be co	onsider for e	valuation	purpose a	nd shall be											
treated	as		non-r	esponsible.											
3. During O&M	period payr	ment sh	all be ma	de to the		, in the above									
contractor on mon						ve table format									
1. Rate mention in					d consider for evaluation purpose and shall be treated as no										
cannot be change															
ixed rate then suc															
not consider for fin	ancial evalua			on monthly basis as per yearly quoted rates.											
Rate to be quote		ear O&M sh	ould not be	1 1	-		•		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											
ess than 1 st veai	r fixed cost	, same	practice h		per	industry per v	ear, per ind	dustrv n	er vear if						
				nave to be						bidder quotes					
adopted in the rer	maining year	rs O&M c	cost. In cas	nave to be se any year	low	er than Rs. 120	000.0 per ir	ndustry	oer year for	bidder quotes 1st year O&N					
adopted in the rer O&M rate is less	maining year than previo	rs O&M o us year	cost. In cas O&M rate	nave to be le any year then such	low the	er than Rs. 120 n such bidder f	000.0 per ir inancial bid	ndustry I shall b	oer year for	bidder quotes 1st year O&N					
less than 1 st year adopted in the rer O&M rate is less financial bid shall financial evaluatior	maining year than previor be conceal	rs O&M o us year	cost. In cas O&M rate	nave to be le any year then such	low the	er than Rs. 120 n such bidder f sider for financi	000.0 per ir inancial bid al evaluatio	ndustry shall b n.	oer year for e concealed	bidder quotes 1 st year O&N and shall no					
adopted in the rer O&M rate is less financial bid shall	maining year than previor be conceal n.	rs O&M o us year led and s	cost. In cas O&M rate shall not c	nave to be te any year then such onsider for	low the con 5.R	er than Rs. 120 n such bidder f	000.0 per in inancial bid al evaluatio ed by bidde	ndustry shall b n. r for 2 nd	per year for e concealed year O&M	bidder quote 1 st year O&N and shall no should not be					

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.

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.

O&M on Turnkey/ lump sum basis. 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

10.	i.	contractor shall be rectifying it within 8 hours. After 8 hrs, for1 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. 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, for1 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.	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.
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11.	Employment of Technical Staff and other Employees	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	S.No	Position required	Salary to be deducted if not engaged by contractor
					DELE	TED	

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.

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