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SPECIFICATION FOR ANNUAL MAINTENANCE CONTRACT FOR SEWERAGE TREATMENT PLANT HAVING CAPACITY OF 150 KLD AT NALSAR UNIVERSITY OF LAW, SHAMEERPET, 500101.

S.No. Description

1. Minimum Manpower required per day:

i) Operators 03

Skilled (Each shift of 8 Hrs. one person)

The treated waste water should comply with the standards given in consent order by APPCB following parameters:

a) PH. Value

5.5 to 9.0

b) Oil & grease

Not to exceed 10 mg/L

c) Suspended solids

Not to exceed 100 mg/L

d) Chemical Oxygen demand

Not to exceed 250 mg/L

e) BOD

Not to exceed 30 mg/L

f) Temperature shall not to exceed 5 Degree Centigrade above the ambient Temperature of the receiving body.

2. Terms & Conditions:

- a) The service should be offered round the clock, 365 days a year.
- b) All Tools & Tackles required should be provided by contractor.
- c) All disciplinary rules and regulations are to be followed by the work force of the Contractor during their stay at the premises, Uniforms and safety kits etc. have to be provided by the contractor only.
- d) All the materials spare parts, consumable such as oil, grease, chlorine etc. have to be provided by the contractor only.
- e) Consumables provided for smooth and effective functioning of the plant should be got approved by the Assistant Engineer and records must be enclosed with claim.
- f) Supplying and monitoring of hypochlorite at site.
- g) The Contractor should submit the preventive maintenance schedule for University approval and its implementation.
- h) The instruction given to the Contractor from time to time should be properly carried out and necessary records of action taken should be maintained in a Log Book.
- Any damages caused by the Contractor in existing facilities while carrying out the work shall be made good by the contractor to our entire satisfaction at their own risk and cost.
- j) All statutory requirements pertaining to the job etc. should be fulfilled by the contractor.
- k) No advance payment will be made to the Contractor. Monthly payments will be released after submission of bill after 30 days and satisfactory completion of job which is to be certified by the Engineer In-charge, NALSAR.
- 1) Dismantled / replaced parts should be handed over to University Engineer.
- m) The party should submit copies of certificates of PF Code No. and registration under contract labour (Abolition / Regulation) Act, 1970 along with Tender documents and the Contractor having no such registration number, the necessary deductions will be made as per the Govt. Rules.
- n) All the contractor's employees posted and working in University premises for the above mentioned work should be covered under ESIC making statutory contribution under ESIC Act and incase if the Contractor having no such registration the necessary deductions will be made as per the Govt. Rules.

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o) The Contractor should follow the guidelines, Rules & Regulation of the Labour Law while engaging labours.

p) Under all circumstances, the sewage treatment plant should be maintained ina pristine order by carrying out periodical check ups duly attending to the problems assured when encountered.

q) The treated water should be colourless, odorless and should be worthy enough to be used for horticulture purpose (for maintaining of land scaping, lawns, etc., in the campus).

r) Prompt and effective supervision such as change of oil, chlorine, carbon, sand and softener's etc., must be carried out on regular basis.

s) Work involves operation and maintenance of 150 cu. m. per day

t) The Agency shall give assurance for the effluent treated water for its quality, i.e., colour, odourness and other standard parameters prescribed by APPCB and it should be fit for gardening purpose.

Special Conditions:

Name of the Work : Operation and maintenance of 150 cu. m

Per day Sewage Treatment Plant,

Operation Time : 24 Hours all 365 days.

Min. Man. Power required : To be employed by the contractor for

the efficient running of the plant.

Operators Skilled : 03/Day (One person for each shift of

8 Hrs).

The Contractor should submit the names of the persons engaged for the work and they have to report to the Engineer-In-Charge of the Shift. Persons employed should not be changed frequently and the every person employed for the work has to obtain proper Gate Pass from Security Department of the University as per the laid down procedures.

4. <u>Duties of Operators & Staff Employed:</u>

Operation and the maintenance of system comprising of Bar screen chambers, Aereation tank, lift pumps, motors, blowers, pipelines, setting tanks, filter unit, Chlorination tanks etc. together with the electrical panels and connections. The Contractor has to keep the area of plant neat and clean.

5. Repairs:

The Contractor has to do all minor repairs, for which no additional labour charges will be paid. Under no circumstances plant should remain under breakdown for more than 03 hours. In the event of breakdown/shut down the onus of attending to the problem in the shortest possible time will rest on the Contractor failing which Engineering Department is empowered to get the breakdown/shut down any defect rectified from any out side agency at the risk and cost of the Contractor and make necessary deductions from their bills. The Contractor has to keep all the area and surroundings at the site neat and clean and dump the scrapped materials at the scrap yard.

It will be Contractor's responsibility to maintain Sewerage Treatment Plant in good state all the time contractor should also to plan and undertake preventive maintenance of entire Sewerage Treatment Plant at regular intervals and attend routine

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maintenance activity every day. Contractor should make a service report for all the maintenance jobs carried out and get it counter signed by the Engineer-in-charge. The necessary registers/Documents will be maintained by the Contractor only.

The Contractor has to carry out necessary treatment to the sewage so as to get the following:

a)	PH. Value	5.5 to 9	- 1	As per the standard
b)	Oil & grease	10 mg/L	i	limits of APPCB
c)	Suspended solids	100 mg/L	į	
d)	BOD	30 mg/L	i	
e)	C.O.D. not to exceed	250 mg/L	i	
f)	Temperature shall not	5° C	İ	
	exceed above the ambient			
	temperature of the receiving	bodv.		

Contractor has to carry out the testing of water at the interval of every month and whenever felt necessary as instructed to do so by the department and furnish the test reports to the Engineer-In-charge on priority. The Contractor will also provide a Tests Certificate every month of effluent water before and after treatment and the certificate have to be obtained from the APPCB approved Lab. For B.OD, C.OD, PH, TSS, and O&G

It will be the responsibility of the Contractor to remove excess sludge from sludge holding tank. In addition, Contractor shall also carryout cleaning of Grease/Sludge holding Tanks periodically. Any disposal of grease / sludge out side the premises will be borne by the party.

The Contractor shall supervise and maintain the ST Plant everyday and maintain a log book as per guidelines of the Operation Manual.

Once the contract is awarded to the successful contactor the EMD will be converted in to SD which will be free of interest and the same will be refunded to the Contractor only after the satisfactory completion of the contract.

All disputes will be under the jurisdiction of Hyderabad Court only.

- 6. a) It is the duty of contractor to submit the test certificate from APSCL approved labs before 5th of every month. In case the contractor fail to submit the test certificate before 5th of every month Rs.6,000/- will be deducted from the monthly payments.
 - b) In case the contractor fails to provide the skilled operator at the work place more than one hour in any day Rs.200/- per hour will be deducted from the monthly payments.
- 7. **Prequalification Criteria**: The contractor should have completed during the last five years:

Average Annual Turnover during last 3 years, ending 31st March of previous Financial Year shall be at least Rs.6.00 lakhs. The bidder's financial capability shall be decided based on the average annual turn over and concurrent commitments.

8. **TERMINATION CLAUSE**: The EMD will be converted into SD. The contractor can be terminated by issuing 2 months' notice from either side.



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About

ANNEXURE -I

ON TENDERER'S LETTER HEAD

CERTIFICATE

To,

The Registrar, Nalsar University of Law, Post Box No.1, Justice City, Shameerpet, Medchal-Malkajgiri Dist, HYDERABAD-500101

Sir,

It is certified that we have studied and understood the terms and conditions of the tender for AMC for Sewage Treatment Plant at NALSAR University of Law, Hyderabad.

The contractor is only the claim amount as per the amount quoted in Annexure -III.

The benefit of reduction in statutory taxes/ levies, if any, arising during the term of the contract, if awarded in our favour, would be passed on to NALSAR University of Law.

AUTHORISED SIGNATORY
COMPANY SEAL



Tolly

Green Aqua Enviro Projects Pyt. Ltd. H.No. 3-2-704/B/8, Sai Enclave, G Road No.12, Eanjara Hills, Hyderabad -500034. Telangana State. India T: 040-23323333 | Econtact@greenaqua.in

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ANNEXURE - III

PRICE FORMAT

TENDER NO. NALSAR/STP/07/2020

Specification for AMC for ST Plant 150 KLD at NALSAR University of Law

Sl. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	Annual Operation & Maintenance Contract of Sewage Treatment Plant having capacity 150 Cum per day, with 3 Skilled Operators covering 24 Hours (i.e., 8 Hours each shift in all days).	months	Month	69,900/-	8,38,800/-

30/32

Enviro Projects &

AUTHORISED SIGNATORY & COMPANY SEAL

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Green Aqua Enviro Projects Pvt. Ltd, H.No. 8-2-704/B/8, Sai Enclave, Road No.12, Banjara Hills, Hyderabad -500034. Telangana State. India T: 040-23323333 | E:contact@greenaqua.in

ANNEXURE - IV

PRICE FORMAT

TENDER NO. NALSAR/STP/07/2020

Specification for AMC for ST Plant 150 KLD at NALSAR University of Law.

Sl. No.	Description	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	Replacement of Carbon media and sand media in containers of 150 KLD capacity STP all as specified and directed at site.	LS	1 Job	36000	36000
2	Provision of iron ladder in place of old damaged with MS Angles including fabrication and applying of two coats of synthetic enamel paint over a coat of red oxide primer all as directed at site.		50	110	5500 ✓
3	Replacement of Frontal pipeline required for PSF ACF tank as per existing dia & guage to 150 KLD capacities STP all as directed and specified at site.	Rmt	30	550	16500
4	Repairs to Sludge transfer pumps including all accessories all as specified and directed at site.	Each	02	6900	13800 🔻
5	Provision of CBD FBD for air grid including any material required all as directed at site	LS	1 Job	39000	39000 ~
6	General Servicing to Blowers of 150 KLD capacity STP including all materials required to servicing like oil, grease, etc., all as specified and directed at site.	LS	1 Job	32000	32000

Ayderabad S

ISO 9001:2008 Certified



Green Aqua®

Green Aqua Enviro Projects Pvt. Ltd, H.No. 8-2-704/B/8, Sai Enclave, Road No. 12, Banjara Hills, Hyderabad -500034. Telangana State. India T: 040-23323333 | Econtact@greenaqua.in

Run	Rupees Three lakhs twenty four thousand eight hundred only)					
	Total Amount (Rs)			324800	
9	M&L synthetic enamel paint over a coat of red oxide primer to all the equipment in STP Painting works to be required for all equipment's.	Sqm	100	200	20000 🗸	
	Replacement of MBBR media to 150 KLD STP all as specified and directed at site.	Cum	06	15000	90000 🗸	
7	Design to tube settler media as per directions to 150 KLD STP all as specified and directed at site	LS	1 Job	72000	72000 🗸	

DYOTE:

i) Total amount shall exclude work contract tax, GST, Service tax etc.

2) Do not attach any other sheet to this Annexure.

3) THE TENDERERS ARE ADVISED TO ENSURE THAT THE PRICES AND OTHER DETAILS ARE FILLED IN CORRECTLY AND COMPLETELY IN THE ABOVE FORMAT. SUBMISSION OF INCORRECT OR INCOMPLETE INFORMATION, AND / OR SUBMISSION OF THE ABOVE FORMAT WITH ARITHMETICAL ERRORS IN COMPLIATION OF THE DATA WOULD BE AT THE TENDERER'S SOLE RISK AND THE DECISION OF NALSAR IN SUCH CASES WOULD BE FINAL AND BINDING.

Esto		
SIGNATURE	NAME	<u>SATISH . K</u>

DESIGNATION: <u>Director</u> MOBILE NO. <u>9246878686</u>

ISO 900 1:2008 Certified

: construction of colder ground omne of the Executive Engineer, I B CA Sump and Periphonal Compania well PIP Dam Division No.2, Mandim

WORK DONE CERTIFICATE

This is to comity that Sn. M/S. K.Y.R. ENTERPRISES Contractor Hyderabed. Her completed the following in Chiston during the financial year 2008 - 2009 & 2009-3010.

_L	Name of the Department	Irrigation and CAD Department
2.	Name of Work	PIP-Supply and Installation of Open Casegrande Porouetube Pizometers at Ke to 0.805 of Left Flank Earth Dam D/S L Priyadarshini Jurala Project, Mandimalla (V) (M) Mahaboobnagar (District).
1.3.	Advance of Estimate with reference to satisfying	DR No. 178/2008-2009, Dr. 27-08-2008
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd. Cdf; 1-9-252/9/94/4/1, MCH No. 3218, Mear Amb Bridge, Rammagar, Hyderabad — 500 p20
5.	Agreement Number and date	Ls Agrat, Number 236/2008-2009, Dt: 16-03-2009
Ó,	Value of Contract	9,56,360V·
7.	Date of Continencement of the work	16-03-2009
8.	Date of Completion of the work as per Agreement	15-06-2009
9.	Actual date of completion of the work	20-03-2009
10	Vetile of work clone	10,01,340/-
11.	Basance value of work to be done	
12	Physical and Financial Progress	As detailed telow.

5.Ka.	DESCRIPTION OF ITEM		FINANCIAL YEAR WISE PROGRESS	
		2008-2009	2009-2010	& PAGE Num
, it	Physical (Principal Items of Work)	Physical	Phancial	
Ŋ	Supply and installation of Open Type casagrande porous tube precometer with following specification: Length: 605mm, OO-38mm, Wall thickness – 6mm, complete with 3 external tie rods, brass top and bottom, plug as per IS 7356 (Part – 1) 1992 etc.	10 No's	al a - Physical Information States and the Section 1	M.H.Na.2027 Fage No
भी	Supply of sentigrici plastic stand pipe schedule "40", 1" dia, Meter as por 15:7356 (Part + 1)	90 RMT	and the second s	Page No.
ដែ)	Criting of bore tools with augur dulling for 100mm dia meter in all type of soils only.	117,30 RMT	нулиу расументалын (нег. е). — Сайдалын талын талын ойолго ойолго ойолго ойолго ойолго ойолго ойолго ойолго	Page No.
ly)	Providing chain ink mesh expend the pickometer for protection	10 No'y	A CONTRACTOR OF THE PROPERTY O	Page No.
Ħ	Financial	R.s.	10,01,340.00	Page No.

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabod, as per M.D.No.DOZ/A/489 d Page No. 2,3,5,8 & 12. Entered in work done register Vol. No.1 page No.147.

> Executive Engineer, I & CADD, PJP Dam Division No. 2, Nandimala

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Rammagar, Thyderabad - 500 020

ENDT. No. DB/04/1965F, Date:25-07-2011.

Submitted in Original to the Superintending Engineer, PSP Carde No. 1 Gadwal for Counter Signature.

Executive Engineer, L.B.CADD, PJP Dam Division No. 2, Nandimalla

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This is to certify that Sn. M/S. K.V.R. ENTERPRISES Contractor Hyderabad. Has completed the following in this

gyislon during the financial year 2008—2009 & 2009-201	Imgation and CAD Department
Name of Work	PJP-Supply and Installation of Open Type Casagrande Poroustube Pixometers at Km 0.720 to 0.760 of Left Flank Earth Dam D/S & U/S at Priyadarshini Jurala Project, Nandimalia (V) Atmakur (M) Mahaboobnagar (District).
3. Amount of Estimate with reference to sauction	DR No. 179/2006-2009, Dt. 27-08-2008
Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218, Near Amber Nagar Bridge, Ramnagar, Hyderabed — 500 020
5. Agreement Number and date	Ls Agnat, Number 237/2008-2009, Dt.: 16-03-2009
6. Value of Contract	9,56,360/-
Cate of Communicament of the work	16-03-2009
8. Date of Completion of the work as per Agreement	15-06-2009
9. Actual date of completion of the work.	20-43-2009
(0. Value of work done	10,01,160/-
11. Palance value of work to be done	
12 Physical and Financial Progress	As detailed below.

S,No.	DESCRIPTION OF ITEM	FINANCIAL YEAR WISE PROGRESS		M Book Number & PAGE Number	
	No.	2006-2009	2009-2010	A Company of the Comp	
A	Physical (Principal Items of Work)	Physical	Financial		
1 0	Supply and Installation of Open Type casagrande porous tube piezometer with following specification: Length- 600mm, OD-38mm, Wall thickness - 6mm, complete with 3 external tie rods, brass top and bottom plug as per 15 7356 (Part - 1) 1992 etc.	10 No's		M,9,No.DO2/A/490 Page No. 3	
ii)	Supply of semigrid plastic stand pipe schedule "40", 1" dia, Meter as per 15 7356 (Part - I)	90 RMT		Page No. 3	
iñ)	Ording of bore hate with augur drilling for 100mm dia meter in all type of soils only.	118 RMT		Page No. 2	
<i>is</i>)	Providing chain link most around the piezometer for protection	10 %a's	And the second s	Page No. 5	
B	Financial	Rs.	10,03,160.00		

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.DDZ/A/190 of

Page No. 2 to S. Entered in work done register Vol. No.1 page No.155.

Executive Engineer, I & CADD,

PJP Dam Division No. 2, Nandimalla

Tö

M/S. K.V.R. ENTERPRISES

Regd, ON: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nager Bridge, Rommagar, Hyderabad – 500 020

ENDT. No. D8/D4/20050, Date:25-07-2011.

Submitted in Original to the Superintending Engineer, PJP Circle No.1 Gadwai for Counter Signature.

Executive Engineer, T& CADO, 1914 PDP Cam Division No. 2, Nandimalia

Pastedon Page No. 44 of PSP Circle No.1, Cocclumat Freger 167 Vol. V.

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This is to certify the Sn. M/S. KLV-R. CHTENPRISES Connector Hyderalized. His completes the collabora me doesnot know the hear-ful oner 2008. 2008. 2008. 2008. 2009.

1.	Mame of the Department	Irrigation and CAD Department
3	Name of Work	P.P-Supply and Installation of Open Casagrande Porquetube Pizometers at km to 0.850 of Left Flank Earth Dam O/S a p Priyadarshini Jurala Project, Nandimaila (V) Ab (M) Mahaboobnagar (District).
J.	Amount of Estimate With reference to sanction	DR No. 177/2008-2009, Dt; 25-08-2008
4	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd. C/C: 1-9-252/9/94/A/1, MCH No. 3718, Near Amber
		Erkige, Ramnager, Hyderahad - 500 020
5.	Agreement Number and date	Ls Agmt. Number 235/2008-2009, E4: 09-03-2009
б.	Value of Contract	9,56,360/-
7.	Date of Commercement of the work	09-03-2009
8.	Dute of Completion of the work as per Agreement	08-06-2009
g ,	Actual date of completion of the work	13-03-2009
10.	Value of work done	10,01,340/-
11,	Balance vaking of work to be dong	at a second seco
12.	Physical and Financial Progress	As detailed below,

S,No.	DESCRIPTION OF ITEM	FINANCIAL YEAR WISE PROGRESS		M Đạok Nu & PAGE Num
William of the second	And the state of t	2008-2009	2009-2010_	
<u>A</u>	Physical (Principal Items of Work)	Physical	Financial	2472-1-11111
D)	Simply and Installation of Open Type casagrande purpose tube prezenteter with following specification : Length- 600mm, OD-38mm, Wall thickness - 6mm, complete with 3 external file rods, brass top and bottom plug as per 15 7356 (Part - 1) 1992 etc.	10 No's		M.B.No.DDZ Fege No.
11)	Supply of semigrid plastic stand pipe schedule "40", 1" die. Meter as per 15 /356 (Part - 1)	30 AMT	######################################	Pa <u>pe</u> No.
Fi)	Drilling of bore hole with augur drilling for 100mm dia meter in all type of soils only.	117,30 RMT	49 be 1001 and a second	Page No.
iv)	Providing chain ank mesh arcumil the prezemeter for protection	10 Ma's	The state of the s	Page No.
B	Financial	Ŗs.	10,01,340.00	

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.DD2/A/56 d Page No. 49 to 51. Entered in work done register Vol. No.1 page No.151.

> Executive Engineer, I & CADB PJP Dam Division No. 2, Mandinalli

Τo

M/S. K.V.R. ENTERPRISES

Regd. Ctt: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Reninsgar, Hydorabea - 500 029

ENDT. No. DB/D4/1989, Date: 25-07-2011.

Substitled in Original to the Superintending Engineer, PIP Orde No.1 Gadwal for Counter Signature.

Executive Engineer, T& CADD, 1961

PJF Dam Division No. 2, Nandimalla

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WORK DONE CERTIFICATE

This is to certify that Sri. M/S. K.V.R. ENTERPRISES Contractor Hyderatasi. Has completed the following in this

	Name of the Department	Irrigation and CAD Department
1.	Name of Work	P3P-Supply and Installation of Open Type Casagrande Poroustube Pizometers at Km 0.855 to 0.875 of Loft Flank Earth Dam D/S & U/S of Priyadarshini Jurais Project, Nandimalia (V) Atmakur (M) Mahaboobnagar (District).
Ί,	Amount of Estimate with reference to sonction	DR No. 176/2008-2009, Dt: 25-08-2008
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd. Off: 1-9-252/9/54/A/3, MCH No. 3218, Near Antier Nagar Bridge, Rammagar, Hyderobad — 500 020
5.	Agricument Number and date	Ls Agmt. Number 234/2008-2009, Dt; 09-03-2009
 6.	Vakre of Contract	9.55,260/-
7	Date of Commencement of the work	09-03-2009
ß.	Date of Completion of the work as per Agreement	Q8-06-2009
g.	Actual date of completion of the work	13-63-2009
ĬÖ.	Value of work done -	10,01,340/-
11.	Bakance value of work to be done	***************************************
12.	Physical and Financial Progress	As detailed below.

S,No.	DESCRIPTION OF ITEM		NCIAL E PROGR E SS	M Book Number & PAGE Number
	The state of the s	2008-2009	2009-2010	
A.	Physical (Principal Items of Work)	Physical	Financial	
i)	Supply and Installation of Open Type cosegration porous tube piezometer with following specification: Length- 920mm, 00-38mm, Wall thickness – 6mm, complete with 3 external tie rods, brass top and bottom plus as per IS 7356 (Part – I) 1992 etc.	10 No's	p	M.B.No.DD2/A/19 Page No. 54
li)	Supply of semigrid plastic stand pipe schedule "40", 1" dia, Meter as per 15 7356 (Part - 1)	TMA GE	-	Page No. 54
ili)	Orilling of bore hole with augur criting for 100mm dia meter in all type of soils only.	117.30 RMT		Page No. 53
iv)	Providing chain link mesh around the plezometer for protection	10 No's		Pege No. 55
a	Financial	Rs.	10,01,340.00	Page No. 57

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad. as per M.S.No.DD7/AV19 of Page No. 53 to 57. Entered in work done register Vol. No.1 page No.141.

> Executive Engineer, I & CADD. PJP Dam Division No. 2, Nandimalia

o.DDZ/A/S

L CADE , Nandim

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nager Bridge, Ramnagar, Hyderabad — 500 020

ENDY, No. DB/D4/19355, Data:25-07-2011.

Submitted in Original to the Superintending Engineer, PJP Circle No.1 Gadwal for Counter Signature,

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cleno

Executive Engineer, 1 & CADD, 71's

PJP Dam Division No. 2, Nandimalia

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Hill O to trivity that Sn. 1975, 1974. Enterpresent Consense Hyderatics. Has den dated his collowing in Polisies duling the financial year 2008—2008 is announced in

- 1. Algebra in the control of Acres 1988 - 51655 & \$100-5-3010	
1. Name of the Department	trigation and CAO Department
A. Name of Wort;	PIP-Supply and Installation of Open Casagrande Poroustube Pirometers at Km to 1.490 of Left Flank Earth Dam D/S & Priyadarshini Jurala Project, Mandimalia (V) & (M) Mahaboobnagar (District).
Amount of Estimate with reference to sanction	OR No. 172/2008-2009, Oct 21-08-2008
 Name of the Contractor with Address 	M/S. K.V.R. ENTERPRISES
	Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218, Near Arab Bridge, Ramnagar, Hyderabad — 500 020
. Agreement Number and date	Ls Agmt. Manber 232/2008-2009, 2t; 9-03-2009
5. Value of Contract	9.56.360/-
7. Date of Commencement of the work	09-03-2009
8. Date of Completion of the work as per Agreement	C8-05-2000
Actual date of completion of the work	20-03-20(9)
ID. Value of work done	9,95,620/-
11. I Balance value of work to be done	Browning on wife of the grant of the contract
12. Physical and Financial Progress	As detailed below.

SNo.	DESCRIPTION OF ITEM		INCIAL E PROGRESS	M Book Nui & PAGE Nun
		2008-2009	2009-2010-	-
<u>A</u>	Physical (Principal Items of Work)	Physical	Financial	
i) 	Supply and Installation of Open Type casagrands porous tube pleasmeter with following specification: Length- 500mm, OD: 38mm, Wall thinkness - 6mm, complete with 3 external tile rods, bries top and bottom plug as per 13 7356 (Part – I) 1992 etc.	10 No's	all a still management according	M.O.No.£02/ ≇æge Na,
ii)	Supply of semigrid plastic stand pipe schedule "40", 1" dia. Meter as per 15 7356 (Part – f)	SLI RATE	. 13882- 441	Page No.
(II)	Draing of hore hole with augur drilling for 100mm dia næter in all type of seas only.	E15.10 RMT	HOOMERING AND PROGRESSION ASSETS VISIBILITIES AND THE COMMISSION OF THE COMMISSION AND THE COMMISSION ASSETS AND THE COMISSION ASSETS AND THE COMMIS	Page No.
(v)	Providing chain link mesh excund the personeter for protection	LO No's	, т. с., «АН едунция примерова да разритенурных м исте — «— - "	Page No.
<u> </u>	Financial	Rs.	9,95,620.00	Fage No.

Certified that the above work certificate issued Sol. M/S. R.V.R. ENTERPRISES hyderabad, as per M.B.No.DOZ/A/1700 Page No. 40 to 45. Entered its work done register Vol. No.1 page No.133.

> Executive Engineer, I.B. CADD, PJP Dam Division No. 2, Nandimala

To

M/S. K.V.R. ENTERPRISES

Regd. CM: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Rammager, Myderabad — 500 020

ENDT. No. DB/D4/1895t, Date:25-07-2011.

Submitted in Original to the SuperIntending Engineer, PJP Circle No.1. Gadwal for Counter Signature.

Executivo Engineer, I & CADD,

PJP Dam Division No. 2, Nandimplia

Transland in Trust in the Af porture laws in Coreland Refeeller vel. Y

This is to certify that Srt. M/S. K.V.R. ENTERPRISES Contractor Hyderabad. Has completed the following in this division during the fiverestal year 2008–2009 & 2009–2010.

1.	Name of the Department	Irrigation and CAD Department
Ę.	Name of Work	Supply and Installation of Open Type Casagrande Poroustube Pizomotors at KM 1.610 to 1.545 of Right
		Flank Earth Dam D/S & U/S at Ramanpadu Balancing
3.	Amount of Estimate with reference to sauction	Reservoir Near Atmakur (A) Mahaboobnagar (Dist).
		DR No. 171/2008-2009, Dt: 20-08-2008
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES
		Rogd. Off: 1-9-252/9/94/A/1, MCH No. 3218, Mear Amber Nagar
	}	I transfer with a secret statistical transfer distribution distribution and interest transfer transfer in
5.	Agreement Number and date	Bridge, Ramnagar, Nyderabad = 500 020 Ls Agna: Norraber 225/2008-2009, Dt: 17-01-2009
5. 6.	Agreement Number and date Value of Contract	Bridge, Ramnagar, Hyderabad = 500 020
	· · · · · · · · · · · · · · · · · · ·	Bridge, Ramnagar, Nyderabad = 500 020 Ls Agnat Number 225/2008-2009, Dt: 17-01-2009
5. 7,	Value of Contract Dete of Contractement of the work	Bridge, Ramnagar, Nyderabad ~ 500 020 Is Agnat Marriser 225/2008-2009, Dt: 17-01-2009 9,55,360/-
5. 7, 8.	Value of Contract	Bridge, Ramnagar, Nyderabad ~ 500 020 Ls Agent, Marriber 225/2008-2009, Dt: 17-01-2009 9,56,360/- 17-01-2009
5. 7, 8.	Value of Contract Date of Commencement of the work Date of Completion of the work as per Agreement	Bridge, Ramnagar, Nyderabad - 500 020 I.s Agris, Norriber 225/2008-2009, Dt: 17-01-2003 9,55,360/- 17-01-2003 16-04-2009
6. 7. 8. 9.	Value of Contract Dete of Contractement of the work Date of Completion of the work as per Agreement Actual date of completion of the work	Bridge, Ramnagar, Nyderebed - 500 020 Ls Agna, Namber 225/2008-2009, Dt: 17-01-2003 9,55,360/- 17-01-2009 16-04-2009 20-62-2009

s.No.	DESCRIPTION OF ITEM		NCIAL E PROGRESS	M Sook Number & PAGE Number
	41	2008-2009	2009-2010	
A	Physical (Principal Items of Work)	Physical	Financial	
l)	Supply and Installation of Open Type casagrande porous tube pierometer with following specification: Length- 6Minwn, OD-38mm, Wall thickness – 6mm, complete with 3 external tile rods, brass top and bottom plug as per 18 7356 (Part – 1) 1992 etc.	10 Ma's		M.S.No.DD2/A/163 Page: No. 71
Ē)	Supply of semigrid plastic stand pipe schedule "40", 1" dla. Meter as per 15 7356 (Part – 1)	90 RMT		Page No. 72
(11)	Drilling of bore hole with augur drilling for 100mm dia meter in all type of soils only.	117.50 RMT		Page No. 70
IV)	Providing chain link mesh around the piczometer for protection	10 Ko/s		Page No. 73
B	Financial ·	Rs.	10,01,860.00	Page No. 75

Cartifled that the above work cartificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per IM.B.No.Dio2/A/163 of Page No. 71 to 75. Entered in work done register Vol. No.1 page No.119.

Executive Englineer, 1 & CADD, PJP Dam Division No. 2, Nandimalia

To

M/S. K.V.R. ENTERPRISES

Regd. Cff: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Ramnagar, Hyderabad - 500 020

ENDT. No. DB/D4/1825c, Date:25-07-2011.

Submitted in Original to the Superintending Engineer, PJP Circle No.1 Gadwai for Counter Signature.

Executive Engineer, T & CADD, PJP Dom Division No. 2, Nandimalia

Pasted on Mye No. 27 of poor circle No. 1. Godood Register vol. 2

FOR K.V.R. ENTERPRISES

Managing Partner

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This is to definy that So. 30/S. N.V.C. Envisioned ES Contractor Hydrophysic dum completed the interwaging

Tablifar grilling that indoubling Assut Sati	R-5005 57 5053 5053	
1. Name of the Department		Irrigation and CAD Department
i. Baine of Work	No. 11 or 30 republicans assessed	Supply and Installation of Open Type
v v		Perpustube Pizometers at KM 1.560 to 1.510
		Flank Barth Dam D/S & U/S at Ramanpedu 8
	The second secon	Reservoir Near Atmakur (A) Mahabaobnagar (Dist
3. Amount of Estabate with referen		DR No. 170/2008-2009, Dt.: 20-08-2009
 Name of the Contractor with Ad 	iress	M/S. KV.R. ENTERPRISES
		Regs. Cff: 1-9-252/9/94/A/1, MOT No. 3218, Near Ambe
		Bridge, Ransnager, Hydgrabad – 500 020
5. Agreement Number and date	-	Ls Agint, Number 224/2008-2009, Ct: 12-01-2009
6. Value of Contract		9,56,360/-
 Date of Commencement of the s 	vork	12-01-2009
 Date of Competition of the work 		11-04-2009
 Actual date of completion of the 	work	20-02-2009
LD Value of work done		10,51,340/-
11. Salance value of work to be don	g .	
12. Physical and Pinancial Progress	/ - · •••	As detalled below.

S.No.	DESCRIPTION OF ITEM		NCIAL E PROGRESS	M Book Nu
		2008-2009	2009-2010	3
A_	Physical (Principal Items of Work)	Physical	Financial	
ŷ	Supply end installation of Open Type casagrande perces tube piezometer with following specification: Length- 600mm, OO-38mm, Wall thickness - 6mm, complete with 3 external tie rods, brass top and bottom plug as per IS 7356 (Part - f) 1992 etc.	10 No's		M.B.No.DDZA Page No.
ii)	Supply of semigrid plastic stand pipe schedule "40", 1" dia. Meter as per 19 7356 (Part – 1)	90 RI-YT	and the sea the season of the	Page Mo.
110)	Drilling of bore hale with augur drifting for 150mm dia mater in all type of salls only.	117.30 RMT	A CONTROL OF THE STATE OF THE S	Page No.
ly)	Providing chale link most around the plezomoter for protection	10 Nots	- and section of the	Page No.
В	Financial	Rs.	10,01,340.00	Page No.

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES, Hyderahad. as per M.B.No.DD2/A/177 of Page No. 47 to 53. Entered in work done register Vol. No.1 page No.129.

Executive Engineer, I & CADDA PJP Dam Division No. 2, Mandimals

Tο

M/S. K.V.R. ENTERPRISES

Regd, Off: 1-9-252/9/94/A/1, MCH No. 3218,

Neur Amber Nagar Bridge, Ramnager, Hyderabed - 500 020

ENDT. No. DB/D4/18/58, Date: 25:07-2011.

Submitted in Original to the Superintending Engineer, PIP Dirde No. I Gadwal for Counter Standard.

Executive Engineer, I & CADD, PJP Dam Division No. 2, Nandimalla

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This is to corolly that Sri. M/S. K.V.R. ENTERPRISES Contractor Hyderabad. Has completed the following in this

1.	Same of the Department	Irrigation and CAD Department
£	Name of Work	Supply and Installation of Open Type Casa trands Poroustube Pizometers at KM 1.625 to 1.550 of Right
		Flank Earth Dam D/S & U/S at Ramanpadu Belancing
	A A STATE OF THE S	Reservoir Near Atmaker (A) Mahaboobnagar (Dist).
31	Amount of Estimate with relerence to sampling	DR No. 96/2000-2009, Dt: DB-08-2008
-	Mame of the Contractor with Address.	M/S. K.V.R. ENTERPRISES
-		Regd, Off: 1/9-252/9/94/A/1, MCH No. 3718, Near Amber Nayar
	x	findge, Sarmagar, Hyderabad – 500 020
- <u>5</u> .	Agreement Number and dote	Ls Agmt, Number 11,7/2008-2009, 0x; 12-12-2008
6.	Value of Contract	9,56,360/-
7	Date of Commencement of the work	32-12-2008
8.	Date of Completion of the work as per Agreement	11-03-2009
9	Actual date of completion of the work	20-05-2009
10	Valix of work done	10,03,160/-
	Balance value of work to be done	
12	Physical and Financial Progress	As detailed below.

S,No.	DESCRIPTION OF ITEM		NCIAL E PROGRESS	M Book Number & PAGE Number
	The state of the s	2008-2009	2009-2010-	
Д	Physical (Principal Items of Work)	Physical	Financial	Annual Control
í.	Supply and Installation of Open Type casagrande porcus take plezometer with following specification : Length- 600mm, OD-38mm, Wall thickness = 6mm, complete with 3 external tie roots, brass top and fection plug as per IS 7356 (Port = 1) 1992 stc.	IÖ No's	-	M.B.No.GU2/A/176 Page No. J
ii)	Supply of samigrid plastic stand pipe schedule "40", 1" da. Meter as per 15 7356 (Port ~ ()	90 RMT		Page No. 1
iji)	Drilling of bore hale with augur drilling for 100mm dia meter in all type of soils only.	118 KMT		Page No. 2
[v]	Providing then link mesh around the presoneter for protection		30 No's	Page No. 11
B	Figuration Rs.	8,56,360,00	1,46,800.00	

Certified that the above work certificate resided Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.S.No.DD2/A/376 of Page No. 2 to 1 t. Extered in work done register Yol. No.1 page No.157.

> Executive Engineer, I & CADD, PJP Dam Division No. 2, Nandimalla

Τœ

M/S. K.V.R. ENTERPRISES

Regd, Off: 1-9-252/9/94/A/1, MCH No. 3218, Near Amber Nagar Bridge, Ramsagar, Hyderabad — 500 020

ENDT. No. DB/D4/2015F, Data:25-07-2011.

Submitted in Original to the Superintending Engineer, PJP Circle No.1. Godwal for Counter Signature.

-----Executive Engineer, I & CADD, WITH

PJP Dam Division No. 2, Nandimalia

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<u> 420 Y 1004 032 Wilescal Peru 2019-20109 & 2019-2010.</u>	•
Mame of the Department	Irrigation and CAD Department
भेजार हो होताहै	Supply and Installation of Onon Type car
	: Porpustube Pizomieters at XM 1.675 to 1.60c.2
,	i Blank Earth Darw DJS & UJS &b Gamannous a''
phony, and analysis of the second control of	Reservoir Near Abnakur (A) Mahaboobnacar (Diens
Arranist of Estimate क्षत्री वहाँकरनात रह कालवादा	DR NO. 99/2008/2009, DC 58:05 2008
Marrie of the Compactor with Address	M/S. K.V.R. ENTERPRISES
	Regd. Off: 1-9-252/9/94/N/1, MCH No. 3218, Near Alaber
	Bridge, Rammegar, Hyderabad - 500 020
	Ls Agent, Number 116/2008-2009, Dt: 12-12-2008
Value of Contract	9,56,360/-
Date of Commissionness of the work	12-12-2008
	11-03-2009
Actual date of completion of the work	20-05-2009
Value of work dome	£ 10,03,160/·
Balance value of work to be done	
Physical and Financial Progress	As detailed below.
	Name of the Department forms of Work Arcount of Estimate with reference to condition Name of the Contractor with Address Agreement Aumber and date Value of Contract Date of Completion of the work Date of Completion of the work Value of work done Palance value of work to be done

Ş.No.	DESCRIPTION OF ITEM		MCIAL E PROGRESS	M Book Num & PAGE Num
EM 1494 F	The state of the s	2008-2009	2009-2010	
Д	Physical (Principal Items of Work)	Physical	Financial	
i) 	Supply and Installation of Open Type tesagrands gorous tube plezometer with following specification: Length-600mm, OO-38mm, Wall trackness – 6mm, Complete with 3 external tile rods, brass top and bottom plug as per IS 7356 (Part – I) 1992 etc.	sů Nos	The State of the S	M.B.No.CO2/i Page No.;
υj	Supply of semigrid plastic stand pipe schedule "40", 1" 48a, Meter as per 19 7356 (Part – 1)	TMH OR	5. / V 3-do-4 (Vand опфос)(5 <u>)—И За на фрунтиванция правологи</u> навалення выс	Page No.
ii)	Drilling of bore hole with augur drating for LGOmm dia meter in all type of solls only.	100 RMT	18 8M	Page 40.18
iv}	Providing their link mesh around the plezometer for protection	(Successive 2011) Hayanese Hole dam, 1990 to some or was a measured for former a more former and management of the control of	10 No's	Page No.1
E	Financial Rs.	8,56,360.00	1,46,900.00	

Certified that the above work cortificate issued 5rf. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.Ro.DD2/N/377 (Page No. 1 to 18. Entered in work done register Vol. No.1 page No.153.

PJP Dam Division No. 2, Nandimella

Τa

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Ramsagar, Hyderabect - 500 020

ENDY. No. DB/D4/199^{5E}, Date:25-07-2011.

Submitted in Original to the Superistanding Engineer, PLF Circle No.1 Sadwal for Counter Signature.

Executive Engineer, 1 & CADO, 14 PJP Dam Division No. 2, Nandimalla

Posted on Rayoner 12 of F-8 course No.1, Localand Register Not. V

This is to certify that Sri. M/S. K.V.R. ENTERPRISES Contractor Hyderabad. Has completed the following in this, division during the financial year 2005-2009 & 2009-2010.

1.,	Namo of the Department	Irrigation and CAD Department
7.	Name of Work	Supply and Installation of Open Type Casagrande Poroustube Pizometers at KM 1.500 to 1,400 of Right Flank Earth Dam D/S & U/S at Ramanpadu Balancing Reservoir Near Atmakur (A) Maltaboobnagar (Dist).
3.	Amount of Estimate with reference to sanction	DR No. 92/2008-2009, Dt; 01-08-2008
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd, Off: 1-9-252/9/94/A/1, MCH No. 321ff, Near Amber Nagar Bridge, Rismnagar, Hyderabad — 500 020
5.	Agreement Number and date	The state of the s
	EAST CONTROL INTO TEST CHILD CICAL	Ls Agmt. Number 101/2008-2009, Ct; 4-11-2008
S.	Value of Contract	Ls Agric, Number 101/2008-2009, Dr.: 4-11-2008 9,56,360/-
Ģ.		
	Value of Contract	9,56,360/-
5. 7	Value of Contract Date of Commencement of the work	9,56,360/- 04-11-2008
6. 7. 8.	Value of Contract Date of Commencement of the work Date of Completion of the work as per Agreement	9,56,360/- 04-11-2008 03-02-2009
6. 7. 8. 9.	Value of Contract Date of Commencement of the work Date of Completion of the work as per Agreement Actual dake of cornstetion of the work	9,56,360/- 04-11-2008 03-02-2009 20-05-2009

S.No.	DESCRIPTION OP ITEM	FINA YEAR WIS	M Gook Number	
		2008-2009	2009-2010	
A	Physical (Principal Items of Work)	Physical	Physical	
I)	Supply and Installation of Open Type casagrance porous tube piezometer with following specification: Length- 600mm, OD 38mm, Wall thickness - 6mm, complete with 3 external tie rods, brass top and bottom plug as per IS 7356 (Part - I) 1992 etc.	10 No's	Contract Con	M.B.No.DD2/A/344 Proper No. 39
ii)	Supply of semigrid plastic stand pipe schedule "40", 1" dla. Meter as per IS 7356 (Part I)	90 RMT		Page No. 40.
lli)	Onling of hore hole with augur drilling for 100mm dia moter in all type of soils only.	I I G RIMT	16 RMT	Page No. 38 & 47
N)	Providing chain link mesh around the piczometer for protection		10 No's,	Page No. 47
B	Financial Rs.	8,56,360.00	1,41,600.00	, XI-1

Certified that the above work certificate issued Srf. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.002/A/144 of Page No. 38 to 47. Entered in work done register Vol. No.1 page No.139.

> Executive Engineer, I & CAUD, PJP Dam Division No. 2, Nandimalla

M/S. K.V.R. ENTERPRISES

Read, Off: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Ramnager, Hyderabed - 500 020

ENDT. No. DB/D4/192⁵⁸, Date:25-07-2011.
Submitted in Original to the Superintencing Engineer, PIP-Circle No.1 Gadwal for Counter Signature.

Executive Engineer, 18-CADD,

PJP Dam Division No. 2, Nandimaila

Pasted on Page No. 37 of Pop Circle 100-1, frod wat regulter vol. V

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work <u>done certificate</u>

its as to certify that Str. 1975, K.V.R. EDITERPRISES Contractor Hydrodrical Has completed the inflowing ma Greath during the Greathial was 2008-2009 & 2008-2019.

1 1	Total and the first and the state of the sta	
- J. J	Rame of the Department	Tarigation and CAD Department
2.	Neme of Work	Supply and Installation of Open Type Com-
		Poroustube Pigometers at KM 1.600 to 1500 To
		Flank Earth Com 0/5 & U/S of Asmannant
J		Reservoir Near Atmakur (A) Mahatiooismagar (Dise
1.	Amount of Estimate with reference to conclor	DR Ko. 91/2008-2009, Ce: 01-08-2008
į 4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES
1	LEGIST STATE OF THE STATE OF TH	Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218, Near Ambe
	THE THE CO. IN COMMENCE AND ADDRESS OF THE PROPERTY OF THE PRO	Bridge, Rammagar, Hyderalsad - 500 020
1.5	Agreement Number and date	Ls Agmt. Number 100/2009 2009, Dt: 4-11-2008
<u> </u>	Value of Cyntract	9,56,360/-
1.7	Date of Commencement of the work	C4-11-2008
8.	Date of Completion of the work as per Agreement	93-02-2009
Ď.	Actual date of completion of the work	20-05-2009
10.	Value of work dane	10.02,640/-
11.	Balance value of work to be done	B
17,	Physical and Finencial Progress	As detailed bridgy,

S.No.	DESCRIPTION OF ITEM	FIFU YEAR WIS	M Book No	
Commission Commission (C.)		2008-5009	2009-2010	_
<u> </u>	Physical (Principal Items of Work)	Physical .	Financial	
1)	Supply and Installation of Open Type casagrande porous take plerometer with following specification: Length- 600mm, DD-38mm, Wall thickness – 6mm, complete with 3 external tie rods, bress top and bottom plug as per 15 7356 (Part – I) 1992 etc.	H) Na's		M.D.No.Dog Fege No.
i)	Supply of semigrid plastic stand pipe schedule "40", 1" die. Meter as per 15 7358 (Part - 1)	90 AMT	1 Pagga Ayang ayan yan daga katalah andara da katalah andara da katalah andara da katalah andara da katalah an	Page No.
i.))	Drilling of bore hale with augur drilling for 100mm dia meter in all type of soils only.	117.80 RMT	The second of th	Page No.
lv)	Providing chain ank mesh around the personeter for protection	***************************************	10 No's	Page No.
8	Financial (8,56,360 + 1,46,280)	Rs,	10,02,640.00	Page No. 47

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.DD2/A/2X/ Page No. 39 to 48. Entered in work done register Vol. No.1 page No.125.

> Executive Engineer, I'& CADD PJF Dam Division No. 2, Nandimali

To

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-5-252/9/94/4/1, MCH No. 3218,

Near Amber Nages Bridge, Rarrevages, Hyderahad - 500 020

ENDT. No. DB/D4/18556, Date: 25-07-2011.

Submitted is Crigaral to the Superintending Engineer, PJP Circle No.1 Coderal for Counter Signature.

Executive Engineer, I & CADD,

PJP Dam Division No. 2, Nandimatla

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CADD **अपनी मार्**

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WORK DONE CERTIFICATE

This is to certify that Srt. M/S. K.V.R. ENTERPRISES Contractor Hyderofood. His completed the following in this

L.	Name of the Dopartment	Irrigation and CAD Department
2.	Name of Work	Supply and Installation of Open Type Casagrands Poroustube Pizometers at KM 1.575 to 1.475 of Right Frank Earth Dam D/S & U/S at Ramanpadu Bolancing Reservoir Near Atmakur (A) Mahaboobnagar (Dist).
1	Arount of Estimate with reference to sanction	DR No. 72/2008-2009, Dt: 31-07-2008
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218, Near Amber Nagak Evidge, Ramnagor, Hyderabad — 500 020
5	Agreement Number and date	Ls Agmt, Number 70/2008-2009, DI: 26-09-2009
6	Value of Contract	9,56,360/-
7.	Date of Commencement of the work	26-09-2009
ä.	Date of Completion of the work as per Agreement	25-12-2008
	Actual date of completion of the work	06-11-2008
9.	I therefore the same in the state of the same in the s	
9. 10.	Value of work done	10,03,160/-
		10,03,160/-

S.No.	DESCRIPTION OF ITEM	FINA YEAR WIS	M Book Number & PAGE Number		
_7,		2008-2009	2000:-2012)		
A	Physical (Principal Items of Work)	Physical	Financial	1	
7	Supply and Installation of Open Type casegrands porous tube plezometer with following specification: Length- 600mm, OD-38mm, Wall thickness – 6mm, complete with 3 external tile rods, brass top and bottom plug as per 15 7356 (Part – 1) 1992 etc.	10 No's	. +	M.B.No.DD2/A/245 Page No. 2	
F)	Supply of semigrid plastic stand pipe schedule "40", L "dia, Meter as per IS 7356 (Part – 1)	90 RMT		Page No. 3	
14)	Drilling of bore hole with augur drilling for 100mm dia meter in all type of soils only.	118 RMT		Page No. 1 & 10	
¥)	Providing chain link mesh around the piezometer. for protection	10 No's		⊅age No.10	
B	Financial Rs.	8,56,360.00	1,46,800.00	Page No. 6 & 13	

Cestified that the above work continents issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.DD2/A/345 of Page No. 1,2,3,6,9,10, 13,17. Entered in work done register Vol. No.1 page No.145.

Executive Engineer, I & CADD, PJP Dam Division No. 2, Nandimalia

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218,

Near Amber Nagar Bridge, Rammagar, Hyderobod - 500 020

ENDT. No. DB/D4/195^{SE}, Date:25-07-2011.

Sulpmitted in Original to the Superintending Engineer, PJP Circle No.1 Gadwal for Courter Signature.

Executive Engineer, I & CADD,

PJP Dam Division No. 2, Nandimalia

Pastod on Page No Hb of Godwal Register Vol.

ENTERPRISES

naging Partner

The price and price Sa. 1875. N.V.C. ENTERPRISES Control to Determined that remodeled our following a d 93K n during the factor of year 2008-2009 @ 2009-2016.

Nume of the Department	Irrigation and CAO Department
Neite of Voork	Supply and Installation of Open Type -
	Poroustube Pizometers at RM 1.475 to 1.475
	Flank Earth Dam D/S & U/S at Ramanusa.
programme and control of the control	Reservoir Near Atmakur (A) Mahaboobnagar (D)
AMOUNT OF Established with reference to concition	DR No. 71/2008-2009, Dt: 31-07-2008
Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES
	Regd. Off: 1-9-252/9/94/A/1, MCH No. 3218, New Anti-
CONTRACTOR	Bridge, Rammagar, Hyderabad - 500 (120)
	Ls Agint, Number, 71/2006-2009, Dt: 26/09-2008
The state of the s	9,56,380/-
	25-49-2008
Date of Compiction of the work as per Agraement	25-12-2008
Actual date of compaction of the work	05-11-2008
Value of work done	10,03,130/-
Balance value of work to be done	The state of the s
Physical and Financial Progress	As detailed below.
	Amount of Estimate with reference to concilor Name of the Contractor with Address Agreement Number and date Value of Contract Date of Commencement of the work Date of Completion of the work as per Agreement Actual date of completion of the work Value of work done Balance value of work to be done

S.No.	DESCRIPTION OF ITEM	FINANCIAL YEAR WISE PROGRESS		M Book No & PAGE No
· Transpire (or to determine the		2008-2009	2009-2010	-
<u> </u>	Physical (Principal Items of Work)	Physical	Pinancial .	(0.50
ð	Supply and Installation of Open Type congressed porous tube plazometer with following specification: Length- 600mm, OD-38mm, Wall thickness - 6mm, conglete with 3 external teareds, brass top and bottom plug as per IS 7356 (Part - I) 1992 etc.	10 No's	,	M.B.Ho.DO Page N
li)	Supply of schnighid plastic stand pape schedule "40", 1" dia. Meter as per 15 7356 (Part – I)	50 RM7	M. (Pr	Page No
lii)	Drilling of Sore hole with begur drilling for 100mm dia meter in all type of solls only,	FIB RIMT	Property and the second	Page No.
iv)	Providing chain ank mesh around the parapreter for crotection	1	10 No's	Page No
<u>0</u>	Financial Rs.	8,56,360.00	1,46,800.00	

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderabad, as per M.B.No.DD2/A/333 Page No. 1,2,3 & 10. Enterest in work done register Vol. No.1 page No.149.

> Executive Engineer, I & CADD PJP Dem Division No. 2, Nandimal

Tö

M/S. K.V.R. ENTERPRISES

Rept. Off: 1-9-252/9/94/A/1, MO1 No. 3218,

Wear Amber Nagar Bridge, Rammagar, Hyderabad - 500 020

ENDT. No. DB/D4/1975t, Date: 25-07-2011.

Submilled in Original to the Superintending Engineer, PJP Circle No.1 Gadwal for Counter Signature.

Executive Engineer, 1 & CADD,

PJP Dam Division No. 2, Nandimalla

Procled on Programs. Had passiciale on the Chadrand & waster val. V

This is to certify that Sri. M/S, K.V.R. ENTERPRISES Contractor Hyderabad. Has completed the following in this

		A			
diastra	distinct the	[supercial	waar 3	MOB2009.	

	Name of the Department	Irrigation and CAD Department
2	Name of Work	PIP-Supply and Installation of Open Type Casagrande Porcustube Pizomoters at Km 1.250
		to 1.200 of Left Flank Earth Cam D/S & U/S at Priyadarshini Jurala Project, Nandimalia (V) Atmakur
	•	(M) Mahaboobnagar (District),
1.3	Amount of Estimate with reference to sanction	DR No. 9/2008-2009, Dt: 02-04-2008
4	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES
200		Regd, Off: 1-9-252/9/94/A/1, MCH No. 3218, Neor Amber Nagar
		Bridge, Ramnagar, Hyderabad - 500 (20
5.	Agreement Number and date	Ls Agmt, Number, 5/2008-2009, Dt; 26-05-2008
6.	Value of Centract	9.56,36W-
7	Date of Commercement of the work	26-05-2068
8.	Date of Completion of the work as per Agreement	25-08-2008
J .	Actual date of completion of the work	11-00-2008
io.	Value of work dene	10,03,160/-
11.	Balance value of work to be done	*
12.	Physical and Financial Progress	As detailed below.

S.No.	DESCRIPTION OF ITEM	FINANCIAL YEAR WISE PROGRESS 2008-2009	M Book Number & PAGE Number
4	Physical (Principal Items of Work)	Physical	
Ą	Supply and installation of Open Type casagrande porous tube plezometer with following specification: Length-600min, OD-38mm, Was thickness - 6mm, complete with 3 external tie rods, brass top and bottom plug as per IS 7356 (Part - I) 1992 etc.	10 No's	M.B.No.D32/A/19 Page No. 34
M)	Suggly of semigrid plastic stand pipe schedule "40", L" dia. Meter as per 15 7396 (Part – I)	90 RMT	Page No. 35
順}	Drilling of bore hole with augus drilling for 100mm dia mater in all type of soils only.	11B RMT	Pege No. 13, 43
lu)	Providing chain link mesh around the piexometer for protection	10 Mo/s	Page No. 35
8	Finandal Rs.	10,03,160.00	

Certified that the above work certificate Issued Srl. M/S. K.V.R. ENTERPRISES Hyderabad. as por M.B.No.DDZ/A/19 of Page No. 33, 34, 35, 36, 38, 42, 43, 46, 49. Entered in work does register Vol. No.1 page No.141.

> Executive Engineer, I & CADD, PSP Dath Division No. 2, Nandimeda

To

M/S. K.V.R. ENTERPRISES

Regd. Gff: 1-9-252/9/94/A/1, MCH No. 3718,

Near Amber Negar Bridge, Ramnagar, Hyderabad - 500 020

ENDT. No. DB/D4/19452, Date: 25-07-2011.

Submitted in Original to the Superintending Engineer, FJP Circle No.1 Gadwal for Counter Signature.

Executive Engineer, I & CADE,

PJP Dam Division No. 2, Nandimalla

Pasted on Paga No. 39 of PER Circle No. 1, Good wat & ug is les Vol. &

Managing Partner

work done certificate

The into restrict that So. M/S. R.V.A. ENTERPRISES Contentor Hyderobod, that officiend the following in dwision during the financial year 2008-2009.

	THE RESERVE AND ADDRESS.						
1	9	ំ និមិលា	re of t	has Dan	iarbment		
ĺ		i naivi	(16. 83) F	he Fari	ach Lighten is	\$ _ALIPE 1— GUNNETENNAZIONENISKE THEOLOGICE KAN	HARRY COMMENTANCE TO T

1.	Name of the Department	Irrigation and CAD Department
1.5	Name of Work	PJP-Supply and Installation of Open
	·	Casagrande Poroustube Pizometers at km
		to 1.250 of Left Flank Earth Dam D/5 g
		Priyadarshini Jurala Project, Mandimalla (V)
1	Author have been also as the same and a same a family as the same	(M) Mahaboobnagar (District).
-4-	Amount of Estimate with reference to sanction	DR No. 8/2008-2009, Dt; 02-04-2008 .
4.	Name of the Contractor with Address	M/S. K.V.R. ENTERPRISES
ļ		Regd. Off: 1-9-252/9/54/A/1, MCH No. 3216, Nevi Anda
	#	Bridge, Ramnagar, Hyderalaed - 500 020
_ <u> </u>	Agreement Number and date	Ls Agint, Namber, 4/2008-2009, Ct; 26-05-2008
<u>. 6.</u>	Value of Contract	9.56,360/-
7.	Date of Commencement of the work	24-05-200R
₽,	Date of Completion of the work as per Agreement	25-08-2006
g.	Actual date of complesion of the work	18-07-2008
112	Value of work done	13,63,150/-
11.	Balance value of work to be done	
12.	Physical and Financial Progress	As detailed below.

S.No.	DESCRIPTION OF ITEM	FINANCIAL YEAR WISE PROGRESS 2008-2009	M Gook Nu B PAGE Num
A	Physical (Principal Items of Work)	Physical	
Ŋ	Supply and Installation of Open Type casagrande poscus tabe piezometer with following specification: Longth-600mm, CO-38mm, Wall thickness – Green, complete with 3 external tie rads, brass top and bottom plug as per IS 7356 (Part – I) 1992 etc.	10 No's	M.B.No.DD2/N Page No.
ζĒ	Supply of semigrid (vastic stand pipe schedule "40", 1" dia. Meter as per 15 7356 (Part ~ 1)	90 PMT *	Page Ko.
la)	Drilling of boxe hole with eagur drilling for 100mm dia meter in all type of soils only.	HS RAIT	Page No.
16)	Providing chain link much occurred the plezometer for protection	10 No's	Page No.
₿	Financial Rs.	10,03,160.00	Paye No.

Certified that the above work certificate issued Sri. M/S. K.V.R. ENTERPRISES Hyderobad, as per M.B.Na.DDZ/A/17/ of Page No. 36 to 41. Entered in work done register Vel. No.1 page No.131.

> Szecutive Engineer, I & CADO, PJP Dam Division No. 2, Nandimali

M/S. K.V.R. ENTERPRISES

Regd. Off: 1-9-252/9/94/A/1, MCH No. 3248,

New Amber Nagar Bridge, Rammagar, Hyderabad - 500 020

EWDT. No. DB/D4/188⁵⁶ , Doto:25-07-2011.
Submitted in Original to the Superintending Engineer, PIP Circle No.1 Cadwal for Counter Signature.

Executive Engineer, I & CADD,

P3P Dam Division No. 2, Nandimalla ///

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7.1.3 R.O-Plant

Technical Specifications

Name of work: Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant at NALSAR University of Law, Shameerpet.

1. INTRODUCTION

The proposed Reverse Osmosis System has been designed to produce permeate - 5000 LPH from Raw Water with characteristics mentioned in further sections below.

The proposed Reverse Osmosis System consists of following constituents:

Raw Water tank (Client Scope) → Filter Feed Pump → Dual Media Filter→Activated Carbon Filter→ Antiscalant Dosing System → Micron Cartridge Filter → High Pressure Pump → RO Block→ UV System→ Treated Water Tank (Client scope)

The Reverse Osmosis system works on the Principle of the natural phenomenon of OSMOSIS PROCESS. Since OSMOSIS PROCESS is reversed by external pressure the process is termed as REVERSE OSMOSIS. Reverse Osmosis is a water purification process in which water is forced by pressure through a semi-permeable membrane.

2. DESIGN BASIS & TREATED WATER QUALITY

RAW WATER ANALYSIS: (Assumed)

SI. No.	PARAMETER	UNIT	RESULT
1.	Odour	-	Agreeable
2.	Taste		Agreeable
3.	Turbidity	NTU	0.2
4.	pH value	ns jestijol	no potaup neet at 67.4 and to seem at
5.	Total Dissolved Solids	mg/l	656
6.	Total Hardness as CaCO3	mg/l	284
7.	Calcium as Ca ⁺⁺	mg/l	44
8.	Magnesium as Mg ⁺⁺	mg/l	06
9.	Total Alkalinity as CaCO3	mg/l	64
10.	Chloride as Cl	mg/l	.52
11.	Total Iron as Fe	mg/l	0.06
12.	Nitrate as NO ₃	mg/l	06
13.	Sulphate as SO ₄	mg/l	15 i,
-14 A	Eluoride as F	mg/l	0.42

1 10011

Design Basis Reverse Osmosis system

	1 3	
	4 m ³ /hr.	
- :	2.6 m ³ /hr.	
:	100 lit	
:	60 %	
:	Semi –Automatic	
:	Borewell	
:	Drinking	
	:	: 100 lit : 60 % : Semi –Automatic : Borewell

Limiting Conditions for RO Feed Water

Temperature	:	Max. 40°C
Turbidity	:	< 2 NTU
Iron	:	< 0.3 ppm
Fluoride	:	< 1 ppm
SDI	:	< 3
Free Chlorine	:	Nil
Oil & Grease	:	Nil

Treated water Quality at the Outlet of RO System:

Sr. No.	Parameters	Value	Unit
1	PH	6.5 – 7.5	
2	Odour	Odorless	
3	Color	Colorless	
4	TDS	100-150	ppm

The above said quality shall be achieved provided:

- The feed quality is same as per design values provided above.
- In case of change in feed quality or source, end quality may have variation or changes.
- The operation of system is strictly done as per The manufacturer's instructions.
- Operation Manual, guidelines and instructions.
- · All log sheets/daily reports are sent to us for monitoring and suggest suitable actions for better and smooth operation of the system each month.
- Pure chemicals (if any), original spares and consumable specified by us only are used in system.
- Parameters not shown in raw water analysis are assumed as zero.

Any abnormal behavior in system shall be notified to our service team within 24 hrs.

Fig on help of a

3. PROCESS DESCRIPTION

Dual Media Filter (DMF):

The raw water will be passed through Dual Media filter for removal of suspended solids. The media provided for the same is sand and anthracite. The filter will be backwashed by indication of increase pressure drop and / once per day.

Activated Carbon Filter (ACF):

Water from pressure sand filter is passed through the activated carbon filter where all the color and odor get removed.

Antiscalant Dosing System :

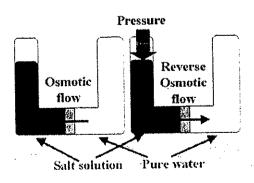
The anti-scalant chemical is added online to protect the membrane from scaling/fouling.

Micron cartridge Filter:

The raw water is passed through Micron Cartridge Filter. The pore size of cartridges is 5 μm.

RO System:

Reverse Osmosis (RO) is the tightest possible membrane process in liquid/liquid separation. Water is in principle the only material passing through the membrane; essentially all dissolved and suspended material is rejected. Osmosis separates impurities from water by passing it through a semi-permeable membrane. The semi-permeable membrane allows only very small atoms and groups of atoms (such as water molecules, small organic molecules and gases) to pass through it.



Advanced reverse osmosis technology uses "cross flow" that allows a partially permeable membrane to clean itself continually. As some of the fluid passes through the membrane, the rest continues downstream, sweeping the rejected species away from it. The process requires a pump to push the fluid through the membrane. The higher the pressure, the larger

or che driving forces. Je to Pvi

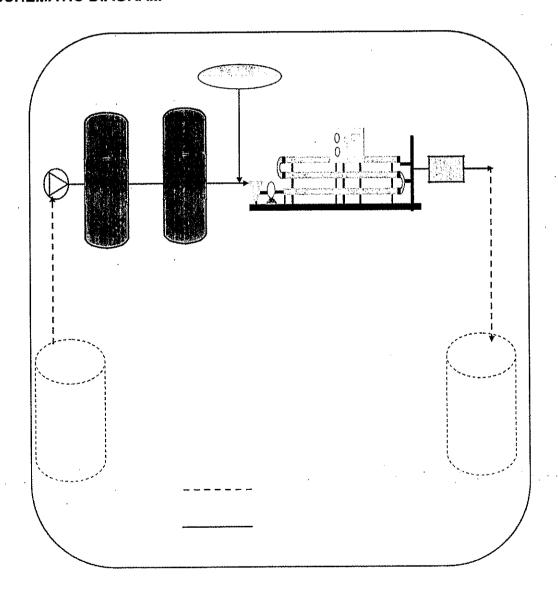
1. Manual .

As concentration of the fluid being rejected increases, so does the driving force? Reverse osmosis is used to reject bacteria, salts, sugars, proteins, particles, dyes, and other constituents. Separation of ions with reverse osmosis is aided by charged particles. This means that dissolved ions that carry a charge, such as salts, are more likely to be rejected by the membrane. The larger the charge and the particle; the more likely it will be rejected.

UV system:

Ultraviolet energy causes permanent inactivation of micro-organisms by disturbing DNA so that they are no longer able to maintain metabolism or reproduce. All bacteria, spores, viruses and protozoa are permanently inactivated by UV.

4. SCHEMATIC DIAGRAM



3-15 m. skelds

5. SCOPE OF SUPPLY WITH TECHNICAL SPECIFICATIONS

	RO System Capacity (LPH)	4000
1	Raw Water Tank	Client Scope (Above Ground)
2.	Filter Feed Pump	Flooded Suction
	Quantity	1 No.
	Туре	Horizontal Monoblock
	Flow	6600 LPH
	Head	30 mwc
	MOC	SS 304
	Electric Supply	3 Phase, 415 V/50 Hz
	Dual Media Filter	
3	Quantity	1 No.
		6600 LPH
	Operating Capacity Size	30" x 72"
	MOC of Vessel	FRP
	Media	Anthracite + Support Be
_	Type of valve	Manual Multiport (Side Mounted)
	Frontal Piping	UPVC Sch. 40
4.	Activated Carbon Filter	
4.	Quantity	1 No.
	Operating Capacity	6600 LPH
	Size	30" x 72"
	MOC of Vessel	FRP
	Media	Activated Carbon + Support Bed.
	Type of valve	Manual Multiport (Sid Mounted)
	Frontal Piping	UPVC Sch. 40
5.	Antiscalant Dosing System	1 No.
	Quantity	
	Туре	Electronic Diaphragn

For Green Aqua Enviro F

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	Capacity Of Dosing Pump	0-3 LPH
	MOC Of Pump	· PP
	Operating Pressure	2.5 kg/cm ²
	Dosing Tank	
	Quantity	1 No.
	MOC Of Tank	HDPE
	Capacity Of Dosing Tanks	100 Lit.
6.	Micron Cartridge Filter	
	Quantity	1 No.
	Operating Capacity	6600 LPH
	MOC of Housing	UPVC
	MOC Of Cartridge	PP
	Micron Rating	5 Micron
	,	
7.	High Pressure Pump	
	Quantity	1 No.
	Capacity	8300 LPH
	Head	140 mwc
	Туре	Vertical Centrifugal Multistage
	MOC	SS 304
	Electric Supply	3 Phase/415V/50 Hz
8.	Pressure Vessel	,
	Quantity	1 Nos.
	MOC	FRP
	Diameter ·	8"
	Model	3 Element Long
		o Liomon, Long
9.	Membranes	
	Quantity	4Nos.
	Туре	TFC Polyamide
	Size	8"
10.	Instrumentation	
	Pressure gauges	
	Range	0-7 kg/cm ²

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(Quantity	1 set
F	Range	0-21 kg/cm ²
	Quantity	02 Nos.
i	ocation	HPP Discharge, RO Reject
	Rotameter	
	Quantity	04 Nos.
	Location	RO Feed, Permeate & Reject, Blend Line
	Pressure switches	
	Low Pressure	
	Quantity	01 No.
	Range	0 – 5 kg/cm ²
	Location	HPP Suction
	High Pressure	
	Quantity	01 No.
	Range	5 – 25 kg/cm ²
	Location	HPP Discharge
	Conductivity Meter(Inbuilt in panel)	
	Quantity	01 No.
	Type	Online
	Range	0 – 300 μSiemens/cm
	Location	RO Permeate Line
		ike i simsata ana
	Level Switch	02 Nos.
	Quantity	Raw Water Tank & Product
	Location	Water Tank
	Auto Flushing System_ Reject Line	04 No
	Quantity	01 No.
	Type	Solenoid Valve SS 304
	MOC	33 304
11.	Electrical Control Panel	
	Quantity	01 No.
$\neg \neg$	Type	Microprocessor Based
	Cabling	1 Set
	LODIA	
12.	Oughtity	01 Lot.
	Quantity	
	MOC	UPVC Sch. 40
	Low Pressure / High Pressure	
		Suction flange of feed pump to inlet flange of treated water
		tank (Max distance 3m)
	Product water Tank (client scope.)	tank (Iviax distance off)
	LETABLICT WOTER LONG (CHANT SCANE)	

For Green Aqua Enviro F

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6. TERMINATIONS POINTS / BATTERY LIMITS

SCHEDULE OF BATTERY LIMITS / TERMINATION POINTS

Raw Water	At the inlet flange of Filter Feed Pump (Max. 3 m away)
Treated Water	At the outlet flange of UV system. (Max. 3 m away)
Electricity	Control Panel for RO Unit by Contractor & incomer cabling to our panel is
	to be provided by Client.
Drain	Drain at outlet of DMF/ACF/RO on Skid
Piping	ICPW is as per the termination points above

Raw water Tank and Treated water tank are assumed at distance of 3m from RO plant.

7. SCOPE OF WORK

- Design Engineering
 - Design & engineering.
 - Process design.
 - P&ID.
 - -Equipment layout with foundation details
- Supervision of Erection & Commissioning

8. MAKE LIST

Sr. No.	items	Make
1.	Horizontal Centrifugal Pumps-Cl	CRI/KBL / Equ.
2.	Vertical Centrifugal Multistage Pumps	CNP/CRI / Equ.
3.	FRP Vessels	Aventura / Equ.
4.	Pressure Gauges	Baumer / Equ.
5.	Pressure Switch	Aster / Equ.
6.	Rota meter	Aster / Equ.
7.	Dosing Pumps	E dose / Equ.
8.	Tanks	Reno / Equ.
9.	UV System	Alpha UV / Equ.
10.	RO membranes	GE/LG/ Equ.
11.	Pressure Tubes	UKL / Equivalent
12.	Cartridge Filter	Process Engineer / Equ.
13.	Multiport Valve	Initiative / Equ.
14.	Conductivity Meter	Aster / Equ.
15.	Level Switch	Aster / Equ.
16.	Solenoid Valve	Aira / Equ.
17.	UPVC	Astral/Equivalent
18.	Valves & Fittings	EFL Approved Vendor
19.	Control Panel	EFL Approved Vendor
20.	Anthracite/Activated Carbon & Supporting pebbles	EFL Approved Vendor

For Green Aqua Enviro Projects Pvt. Ltd

Anthorised Signal

9. SCHEDULE OF EXCLUSIONS

Raw water Tank and Product water Tank

Approach to site & storage for equipments during erection work.

All piping and plumping beyond termination points.

- Continuous power supply with grounding (earth connection) to Contractor System panel.
- Power / Lighting / Water at the site of work on 24 hrs basis during plant installation.

Lighting & ventilation in Plant area.

Backwash water/ Rinsing Water disposal pipeline beyond Plant area and its disposal.

Laboratory Equipment & room.

NOC from pollution control board at all levels and all other Statutory Clearance and sanctions required for the implementation of the project.

All civil & structural designing and construction works (RCC Works) including waterproofing, plaster, snowcap, Grouting, Structure duly tested for leak proofing, Equipment room flooring etc.

Lubricants, oils, grease including the first charge should be supplied by client.

Chemicals and consumables at the time of commissioning and operation.

· Final Painting.

· Cable Trays, Conduits, tray support beyond termination points etc.

Any other services/supply not clearly mentioned in our scope of supply.

All the erection/ piping/ structural/ electrical works to be carried out at site.

Unloading/ shifting of supplied material.

· Third Party Inspection.

(Write can provide Yes or No)

Sl. No	Description of the item	Can Provide (Yes/ No)
1	Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant – 1 Unit	

Note:-

- 1. Bidders are advised to visit the premises of the University before submitting the bid to have an idea about the work.
- 2. Finalization of design, fabrication and fixing partition will be at sole discretion of the competent authority of the University. In case of any doubt; the decision of competent authority will be final and binding to the bidders.

NALSAR University of Law Justice City Shameerpet Hyderabad

For Green Aqua Envilo

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Schedule for 4000 LPH Capacity Reverse Osmosis Plant.

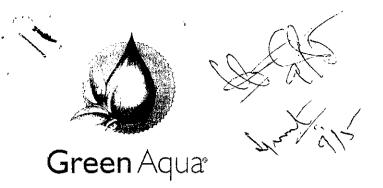
Name of Work: Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant at NALSAR University of Law, shameerpet.

Serial Number	Equipment	Description	Pieces	Rate	Amount
1.	Reverse Osmosis Plant	4000 LPH Capacity Reverse Osmosis Plant	One Unit complete		
		Total Amount			

For Green Aqua Enviro Projects Pvt. Ltd

NALSAR University of Law Justice City Shameerpet Hyderabad

(Signature of Tenderer) with seal



Green Aqua Enviro Projects Pvt. Ltd, H No. 8-2-704/B/8, Sai Enclave, Road no. 12, Banjara Hills, Hyderabad -500034, Teiangana State. India T: 040-233 23333 | E:contact@greenaqua.in

PRICE BID

Schedule for 4000 LPH Capacity Reverse Osmosis Plant.

Name of Work: Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant at NALSAR University of Law, Shameerpet.

Reference: TENDER notice dated NALSAR / Engg. Dept /2018-19 dated:25/04/2018

Serial Number	Equipment	Description	Pieces	Rate	Amount
1.	Reverse Osmosis Plant	4000 LPH Capacity Reverse Osmosis Plant	One Unit	5,04,760.00	5,04,760.00
				GST@18%	90,857.00
				Total Amount	5,95,617.00

For Green Aqua Enviro Projects Pvt.Ltd

For Green Aqua Enviro Projects Pyt. Ltd

(Signature with seal)

Authorised Signator



Green Aqua Enviro Projects Pvt. Ltd, H No. 8-2-704/B/8, Sai Enclave, Road no. 12, Banjara Hills, Hyderabad -500034, Telangana State. India T: 040-233 23333 | E:contact@greenaqua.in

Date: 07.05.2018

<u>Submission of original demand drafts for EMD and application Fee</u> <u>Quotation for "Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant"</u>.

To,
The Registrar

NALSAR University of Law, Justice City, Shameerpet, Medchal District

Submission of original demand drafts for EMD and application Fee Quotation for Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant".

Dear Sir,

With reference to your TENDER notice dated NALSAR / Engg. Dept /2018-19 dated:25/04/2018, I have examined the TENDER document and understood its contents. I hereby submit my Bid for "Supply & Installation of 4000 LPH Capacity Reverse Osmosis Plant" at NALSAR University of Law, Justice City, Shameerpe, Medchal District.

We here with enclosing the **original demand** draft drafts dran in favour of the registrar, Nalsar university of law, payble at Hyderabad towards application fee Rs.1000/- and Rs. 10000/- towards EMD. Details are as following

- 1. Demand draft. No. **522786**, Dt. 07.05.2018 ICICI bank for Rs. 1000/- towards application
- 2. Demand draft. No. 522785, Dt. 07.05.2018 ICICI bank for Rs. 10000/- towards EMD.

Yours faithfully

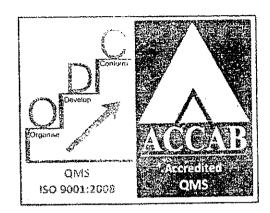
For Green Aqua Enviro Projects Pvt Ltd

Authorised Signatory

Enclosures:

- 1. DD. No. 522786, Dt. 07.05.2018 ICICI bank for Rs. 1000/- towards application fee
- 2. DD. No. 522785, Dt. 07.05.2018 | ICICI bank for Rs. 10000/- towards EMD.

QUU Standards vermication Certificate of Registration



The ODC Standards Certifications hereby certifies that:

Green Aqua Enviro Projects Pvt. Ltd.,

H.No.8-2-704/b/8, Plot No.12, Road No.12, Sai Enclave, Banjara Hills , Hyderabad --500 034, R.R.Dist, Telangana, India.

has been found to conform to the Quality Management System Standard:

ISO 9001:2008

with a scope of:

Design, Manufacture, Sales, Supply & Service of Water & Waste Water Treatment Plants.

"Further clarifications regarding the scope of the certificate and the applicability of the standard requirements may be obtained by consulting the organisation." "This is an accredited certificate sanctioned for issue by ACCREDITATION COMMISSION FOR CONFORMITY ASSESSMENT BODIES (ACCAB) in accordance with the requirements of 150 // 100 / 2001. The validity of this certificate can be verified by checking the Organizations maintained at the ACCAB website ways accallable."

Certificate Number : 142008117

Date of Initial Registration : 13/08/2014

Registration Validity 10/08/201.

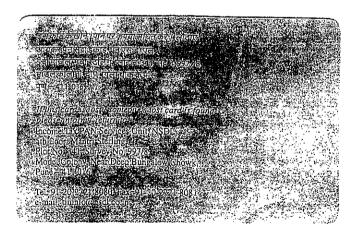
Recertification Date 10/08/2013

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www.odccert.org













Green Aqua Enviro Projects Pvt Ltd

204, Sahiti Sri Vidya Petals, Street No : 2 , Pathrika Nagar,

Hitech City , Madhapur, Hyderabad-500081

GSTIN/UIN: 36AAFCG6937L1Z3 State Name: Telangana, Code: 36 E-Mail: contact@greenaqua.in

Consignee

NALSAR UNIVERSITY OF LAW

Justice City, Shameerpet, Medchal District-500101

Hyderabad.

GSTIN/UIN State Name

: Telangana, Code: 36

36AAALN0016D17P

Invoice No.

Dated

397

Delivery Note

21-Nov-2022

Mode/Terms of Payment

Supplier's Ref.

Other Reference(s) .

Buyer's Order No.

AMC/NALSAR/2020-21

Despatch Document No.

Dated

27-Jan-2021 Delivery Note Date

Despatched through

Destination

Terms of Delivery

Buyer (if other than consignee)

NALSAR UNIVERSITY OF LAW

Justice City, Shameerpet, Medchal District-500101

Hyderabad.

GSTIN/UIN

: 36AAALN0016D1ZP

State Name

: Telangana, Code: 36

SI No.	Description of Goods		HSN/SAC	Quantity	Rate	per	Amount
1	STP Operation and Maintaining Charges For the month of October 22 From 01 10.2022 to 31.10.2022	, ·	999411	1.00 NOS	69,900.00	NOS	69,900.00
	Output CGS Output SGS				9	% %	6,291.00 ~ 6.291.00

Total:

1.00 NOS

Rs 82.482.00

E. & O.E.

Amount Chargeable (in words)

INR Eighty Two Thousand Four Hundred Eighty Two Only

HSN/SAC Total

10 Tax Amount

10 Tax Amount Taxable Central Tax State Tax Value Rate Amount Rate Amount 69,900.00 6,291.00 Total 69,900.00 6,291.00 6,291.00 12,582.00

INR Twelve Thousand Five Hundred Eighty Two Only

Company's PAN

: AAFCG6937L

Declaration

We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

Company's Bank Details

Bank Name

: ICICI Bank A/c- OD

A/c No. : 000805015036

Branch & IFS Code: Khairatabad & ICIC000090810

for Green Aqua Enviro Projec



Prof. (Dr.) V Balakista Reddy
LL.M., M.Phil., Ph.D. (JNU)
Professor of Law & Registrar

NALSAR University of Law, Hyderabad

'Justice City', Shameerpet, Medchal District - 500 101, Telangana, India. Tel: +91-40-23498104 / 23498115 Fax: +91-40-23498386

Mobile: +91-99486 60916

E-mail: registrar@nalsar.ac.in, balakista@gmail.com

Website: www.nalsar.ac.in

WORK ORDER

July 20, 2021

WO.No. 180/ Enggdept/2021-22/05 /Medical

To, M/s. GJ Multiclave (India) Pvt Ltd, 7-1-47/1/A, D.K. Road, Ameerpet, Hyderabad, TS-500016, Ph no. 040-23756925

Dear Sir.

Sub: Safe disposal of Bio Medical Waste from NALSAR University Campus, Shameerpet – Reg.

Ref: Your offer letter dated: 14/07/2021.

Auth: Approved by the Hon'ble Vice-Chancellor dated: 15/07/2021

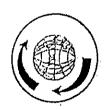
With reference to your offer letter dated: 14/07/2021 for disposal of Bio Medical waste from the campus is awarded at the rate of Rs. 2500/- + GST 18% with terms and Conditions is as under:-

- 1. Disposal charges will only release within 7 working days on submission of Original invoice to the University Medical Officer.
- Should ensure that the Bio Medical waste is handling in sealed cover coded bags and depute skilled manpower to collect bio waste from University Medical Centre thrice in a week compulsory.

REGISTRAR

Copy to:-

- 1) University Medical officer- you are advised to monitor regularly
- 2) Account section- for releasing payments on receiving of original invoice duly recommended by the University Medical Officer.



GJ Multiclave (India) Pvt. Ltd

7-1-47/1/A, D.K. Road, Ameerpet, Hyderabad - 500 016. Ph.: 23756925, 23756926. E-mail: service@gjmulticlave.com Web Site: www.gjmulticlave.com

Service Certificate

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Cospital / Nursing Home / Diagnostic is a member of 51 Multiciave (India) FVI. Lia:	GJ Multiclave is providing bio-medical waste
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01 14 JAMUARY ", 2022 management service to the institution from_

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R. Apr Cenar

MANAGING DIRECTOR



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SI. No. 1299 Date: 16th November, 2018 Sold to: M.A. MUJEEB QUADRI S/OLSULTAN QUADRI, Hyd. For Whom: ZENVIRO INDUSTRIES PVT. LTD. Hyd.

ZAMEER

464809

LICENSED STAMP VENDOR
L.No.15-14-006/06, R.No.15-14-014/2018,
H.No.1-5,KURMALGUDA(V) SAROORNAGAR(M)
R.R. DISTRICT - 069, Cell: 9396335052

Memorandum of Understanding (MoU)

between

NALSAR University of Law

and

Z Enviro Industries Private Limited

(Authorized dismantlers/re-cyclers as per the authorization issued by the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) under e-waste management rules, 2016 (as on 4-11-2022)

NALSAR University of Law, Hyderabad (herein after referred to as NALSAR) was established by Act No. 34 of 1998 to provide comprehensive legal education and to promote quality research in the discipline of law and allied subjects. From its inception, the University is committed to ensure highest quality in imparting legal education. The

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University aims at producing professionally competent, technically sound and socially relevant lawyers. Social justice through legal education has been the primary goal of the University. In recognition of its academic standards National Assessment and Accreditation Council (NAAC) awarded it 'A' grade (A++ as per new grading system) with a high score of 3.60 out of 4.00. University offers diploma, undergraduate, postgraduate and doctoral degree programs in law and allied areas. UGC too has categorised NALSAR as Category – I University.

And

M/s.Z Enviro Industries Private Limited is one of the largest electronics recycler in India and works closely with some of the largest corporates companies in the world as there e-waste recycling arm. With recycling capacity of 30,000+ tonnes annually, Z Enviro Industries Pvt. Ltd. provides complete end life management of electronic equipment's, providing one stop cost effective solution to our clients. Our services include segregation, inventorisation, data destruction, collection and destruction of electronic equipment's. Z Enviro Industries Pvt is fully verified to ISO 19001, ISO 14001 & ISO 45001 environment Management standard.

Has agreed to conclude the following Memorandum and Understanding (MOU) with the following objectives

1. Z Enviro Industries Pvt is hereby granted the authorization as a Dismantler, Refurbisher and Recycler for collection, storage, dismantling, refurbishing and recycling of E-waste in the premise of the NALSAR Campus.

Jane 1

- 2. Commercials shall be as per the rates fixed by the Telangana State Pollution Control Board.
- 3. Duration of the MOU is for one year from the date of its signature by the parties

Signed on behalf of

Z Enviro Industries Private Limits

Mohammed Abdul Muje

Director

Signed on behalf of

NALSAR University of Law

Prof.V.Balakista Reddy

Vice Chancellor (I/c)

Place: Hyderabad

Date: 8/10/2022

(2.1.3+ 7.1.6)

4.0 WASTE MANAGEMENT

Waste management is vital for maintaining eco-friendly campus. Its collection, management, treatment is a big challenge. In the University, different types of waste are generated, as below:

- Solid organic waste from dining hall, kitchen
- Green waste from gardens, plantations and lawns
- E-waste from Computer Laboratories and Offices
- Paper waste from Library, Examination Hall
- Bio-medical waste from Clinic

The different types of solid waste generated in the campus, their particulars such as description of waste, generation quantity, and disposal method are summarized below in Table 7:

Table 7: Different Types of Waste Generated and their Disposal

S. No.	Type of Waste	Particulars	Quantity	Disposal Method
1	Solid Organic Waste	Cooked food waste from dining hall and uncooked waste from kitchens	600-800 kg/day	Collected by outsiders for animal food
2	Green Waste	Green garden waste such as green leaves, stems, branches, woody material, etc.	300-400 kg/day	Collected and disposed-off
3	Paper Waste	Paper waste from Library (old newspapers, Magazines, Parcels) and Examination Halls	1,250 kg/year	Direct selling to vendors through tendering
4	E-Waste	Damaged desktops, laptops, printers, cartridges, routers, switches, keyboards, projectors, electrical & electronic parts	2-3 kg/month	Reuse after refurbishment, repairs, upgradation of gadgets; Disposal by buyback arrangement

5	Plastic Waste	Pens, Refills, Plastic water bottles, wrappers, etc.	Negligible	Direct selling to scrap dealers
6	Bio-Medical Waste	Clinic waste, expired medicines, syringes, cotton, bandages, etc.	10 kg/day	Collected by M/s GJ Multiclave (Ind) Pvt. Ltd. for further treatment

4.1 E-Waste

The University has different electronic systems as listed below in Table 6.

Table 6: Electronic Items/ Gadgets in the campus

S. No.	Items	Inventory
1	Desktop Computers	100
2	Laptops to Admin	80
3	Laptops to students	15
4	Printers	70
5	Small Printers	10
6	Wi-fi access points	120
7	Data Servers	2
8	Televisions	50
9	Keyboards, routers, etc.	150
10	Photocopying machines	10

There are two Computer Labs, one Opac Lab, and two Data Servers.

The University has adopted a sound strategy to reduce and manage E-waste generation in the campus and it consists of:

- Upgradation & refurbishment of systems from time to time and using them thereby extending the life of gadgets
- Refurbishment of projectors and other gadgets for utilization
- Development of a fully equipped workshop, which undertakes refurbishment and repair of electronic items for utilization
- Refilling of cartridges
- Disposal of obsolete items under buyback arrangement with vendors.

The total E-waste generated is about 2-3 kg/month.

4.2 Paper Waste

The sources of paper waste are normally Library and Examination Centre.

The campus has a Library. In order to reduce paper waste, the Library has upgraded to digital Library where possible and has digital/online databases, digital library, etc. There are books and magazines but there has been an overall effort towards digitization. This has considerably reduced the paper waste.

Further, Examination Section is not generating any solid waste for the past 2 years as it is paper-less and exams are conducted on-line. Prior to Covid, the paper waste generated was disposed-off once in 7 years by calling tenders.

The details of paper waste are summarized below in Table 7:

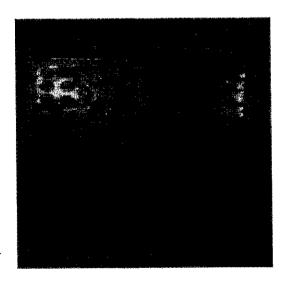
S. No. Paper Waste Inventory Method of Disposal

1 Old Newspapers 1,250 Disposed once in a kg/year year through tendering 3 Parcels

Table 7: Paper Waste

4.3 Bio-Medical Waste

It is generated in the clinic inside the campus. The waste is picked up by M/s GJ Multiclave (Ind) Pvt. Ltd., twice in a week (Monday and Friday). The waste is segregated and collected in three different bins of Yellow, Red, and Blue before it is being picked by the agency. The waste includes syringes, IV sets, gloves, plasters, masks, needles, vials, scissors, etc. It is noted that the medical waste is finally incinerated at a common facility by the company.



4.4 Solid Organic Waste

The kitchen and dining hall generate about 600-800 kg/day solid organic waste, which includes cooked food from dining halls and uncooked vegetables, etc. from the kitchen. In addition to this, about 300-400 kg of green garden waste is generated in the campus. Hence the total solid organic waste generated amounts to 1,000-1,500 kg/day. Presently, it is picked up by outsiders as animal food.

4.5 Recommendations for Waste Treatment

- It is suggested to install an anaerobic digestion (Bio-methanation) based Biogas plant for treating the solid organic waste & green waste generated in the campus. A biogas plant of 200M³/day capacity may be installed that can treat 1,000-1,500 kg food waste, solid organic waste, and green garden waste generated from plantations and lawns. The Biogas generated has a good calorific value and can be used as clean/green fuel for cooking, heating, and hot water generation in the kitchen thereby reduce the CNG consumption and CNG bill. The bio-manure is a by-product of the Biogas plant, which produces about 300-500 kg/day bio-manure and can be used within the campus as bio-fertilizers for plantations, lawns, gardens, etc. Hence Biogas plant is an excellent zero-waste green technology for the University. A number of institutions, schools, colleges, dairy farms, poultry farms, townships, and industries have installed biogas plants and successfully managed the waste in an environmentally sustainable basis.
- To encourage elimination of use of plastics in the campus, the University may promote biodegradable materials as alternative. Efforts should be made to make the plastic-free campus.
- 3) Recycle and reuse of different wastes should be emphasized to reduce waste generation in the campus.