

**AMARAVATI DEVELOPMENT CORPORATION LIMITED**

**Name of Assignment:** Selection of Authority Engineer Consultant for Design Engineering Review, Project Management and Project Implementation including Works Supervision, Quality Assurance & Technical Auditing of "Survey, Investigation, Design, Construction, Testing, Commissioning of Smart Infrastructure works of Additional Lanes for Road E3 with Storm Water Drains, Culverts, Water Treatment & Supply works including head-works (consisting Intake well, Raw water pumping main, Water Treatment Plant, Cushion tanks, semi-underground Reservoirs, Integration with entire water supply and other ancillary works), Sewerage Network, Power & ICT conduits, RCC duct for Power cables, Gas lines crossings, Cycle tracks, Street furniture, Avenue Plantation and 10 years O&M for Water supply including Head-works for Road E3 [works being implemented on EPC basis in Package-XV] in AP New Capital City "Amaravati" Andhra Pradesh state, India.

**RFP No: 07/CE/ADC/ENGG/Authority Engineer/2018-19**

**CORRIGENDUM-1**

**Dated 06-06-2018**

Sl No. /Page No.	Ref. Clause No.	Existing Provision in RFP / Corrigendum	Modified Provision (To be read as)
1	[RFP: Section 7: TOR, Man Month Input For Key Professional Staff of Authority	Deputy Team Leader cum Sr. Construction Manager  Desirable – Qualifications eligible for Additional weightage/marks  (a) Post Graduate Degree in Civil Engineering/ Transport Engineering/ Pavement Engineering.  (b) Supervised Urban Infrastructure projects like Urban Roads and Urban Highways including storm network and underground utility infrastructure.	Deputy Team Leader cum Sr. Construction Manager  Desirable – Qualifications eligible for Additional weightage/marks  (a) Post Graduate Degree in Civil Engineering/ Transport Engineering/ Pavement Engineering.  (b) Supervised Urban Infrastructure projects like <u>Urban Roads OR Highways</u> with storm network and underground utility infrastructure.

Engineer, Pg. No. 127]	<p><b>Senior Quantity Surveyor cum Contract Specialist</b></p> <p><b>(i) Essential Qualifications:</b></p> <p>(a) Graduate in Civil Engineering from recognized university.</p> <p>(b) Total Professional Experience of 15 years in handling Highway Infrastructure &amp; Water Treatment Plant Projects</p> <p>(c) At least 5 years' experience as Quantity Surveyor in Water Treatment Plant Projects</p> <p>(d) At least 5 years' experience as Quantity Surveyor in Highway Projects with Flexible Pavements</p> <p>(e) He should have handled at least two projects as Quantity Surveyor in Construction / Construction Supervision of Water Treatment Plant Projects</p> <p><b>(ii) Desirable Qualifications:</b></p> <p>(a) Post Graduate Degree / certificate course in Construction Management/ Contract management.</p>	<p><b>Senior Quantity Surveyor cum Contract Specialist</b></p> <p><b>(i) Essential Qualifications:</b></p> <p>(a) Graduate in Civil Engineering from a recognized University.</p> <p>(b) Total Professional Experience of 15 years in construction / Construction Supervision of Water Treatment &amp; Waste water Treatment Plants and Highway projects.</p> <p>(c) Experience as Senior Quantity Surveyor cum Contract Specialist in Construction/ Construction Supervision of at least two (2) Water treatment plant projects and one (1) Highway /Urban Road Projects.</p> <p><b>(ii) Desirable Qualifications:</b></p> <p>(a) Post Graduate Degree / certificate course in Construction Management/ Contract management.</p>
3 [RFP: Section 7: TOR, Man Month Input For Key Professional Staff of Authority	<p><b>Senior Materials Engineer cum Geotechnical Engineer</b></p> <p><b>(i) Essential Qualifications:</b></p> <p>(a) Graduate in Civil Engineering from a recognized University.</p> <p>(b) Professional Experience of 15 years in construction / Construction Supervision of Infrastructure and Water &amp; waste water treatment Plants</p> <p>(c) Experience as Material Engineer in Construction/ Construction Supervision of at least 3 Water treatment plant projects and 2 Highway Projects with Flexible pavements over expansive soils.</p>	<p><b>Senior Materials Engineer cum Geotechnical Engineer</b></p> <p><b>(i) Essential Qualifications:</b></p> <p>(a) Graduate in Civil Engineering from a recognized University.</p> <p>(b) Total Professional Experience of 15 years in construction / Construction Supervision of Water Treatment &amp; Waste water Treatment Plants and Highway projects.</p> <p>(c) Experience as Senior Material Engineer in Construction/ Construction Supervision of at least two (2) Water treatment plant projects and one (1) Highway /Urban Road Projects.</p> <p>(d) Must be familiar with material property of construction material, technical specifications and procedures of material tests</p>




<p><b>Engineer, Pg. No. 129]</b></p>	<p>(d) Must be familiar with material property of construction material, technical specifications and procedures of material tests and testing equipment's, testing of soil samples, preparation of geotechnical reports etc.</p>	<p>and testing equipment's, testing of soil samples, preparation of geotechnical reports etc.</p>
<p>4 [RFP: Section 7: TOR, Man Month Input For Key Professional Staff of Authority Engineer, Pg. No. 130]</p>	<p><b>Senior Operation &amp; Maintenance Engineer</b> <b>(i) Essential Qualifications:</b> (a) Graduate in Civil/Mechanical engineering from a recognized University. (b) Professional Experience of 15 years in handling Water supply project (Treatment, Transmission and Distribution) Projects (c) 10 years' experience in operation and maintenance of fully automated Water supply projects (Raw water Intake, Treatment, Transmission and Distribution) with SCADA. (d) Must be familiar with modern trends in operation of Water Treatment plants and pumping stations and latest Indian and International standards, technical specifications and automated operation of plants and pumping stations with PLC and SCADA system. (e) Experience in similar capacity in operation and maintenance of at least three (3) water / wastewater treatment plants having mini. Capacity of 20 MLD and more. (f) Must be familiar with safety norms of water supply system.</p>	<p><b>Senior Commissioning cum Operation &amp; Maintenance Engineer</b> <b>(i) Essential Qualifications:</b> (a) Graduate in Civil/Mechanical engineering from a recognized University. (b) Total Professional Experience of 15 years in handling Water supply projects (consisting Treatment, Transmission and Distribution). (c) Experience as Senior Commissioning cum O&amp;M Engineer in Water supply projects (consisting Raw water Intake, Treatment, Transmission and Distribution) of at least three (3) water treatment OR wastewater treatment plants having mini. Capacity of 20 MLD and more. (d) Must be familiar with modern trends in operation of Water Treatment plants and pumping stations and latest Indian and International standards, technical specifications and automated operation of plants and pumping stations with PLC and SCADA system. (e) Must be familiar with safety norms of water supply system.</p>

5	[RFP: Section 7: TOR, 2. Reporting Requirements and Time Schedule (in man-months) for Deliverables, Pg. No. 147]	SN o.	Key Personnel & No. of Positions	Construction Period of 12 months	Defects Liability Period of 24 months
			A: Key Personnel		
		1	Team Leader cum Project Manager (1Nos.)	12	6 (intermittent)
		2	Deputy Team Leader cum Construction Manager (1Nos.)	12	6 (intermittent)
		3	Sr. Quantity Surveyor cum Contract Specialist (1Nos.)	12	3 (intermittent)
		4	Sr. Material Engineer cum Geotechnical Engineer (1Nos.)	12	N/A
		5	Sr. Operations and Maintenance Engineer (1Nos.)	3 (intermittent)	24
6	Design Engineer (Water Supply Networks) (1Nos.)	6 (intermittent)	2 (intermittent)		
		SN o.	Key Personnel & No. of Positions	Construction Period of 18 months	Defects Liability Period of 24 months
			A: Key Personnel		
		1	Team Leader cum Project Manager (1Nos.)	18	6 (intermittent)
		2	Deputy Team Leader cum Construction Manager (1Nos.)	18	6 (intermittent)
		3	Sr. Quantity Surveyor cum Contract Specialist (1Nos.)	18	3 (intermittent)
		4	Sr. Material Engineer cum Geotechnical Engineer (1Nos.)	18	N/A
		5	St. Commissioning cum Operations and Maintenance Engineer (1Nos.)	3 (intermittent)	24

7	Design Engineer (Water Infrastructure) (1Nos.)	6 (intermittent)	N/A		6	Design Engineer (Water Supply Networks) (1Nos.)	6 (intermittent)	2 (intermittent)
8	<del>DELETED.</del>	<del>DELETED</del>	<del>DELETED</del>		7	Design Engineer (Water Infrastructure) (1Nos.)	6 (intermittent)	N/A
9	Sr. Construction Manager (Water Infrastructure) (1Nos.)	12	3 (intermittent)		8	<del>DELETED.</del>	<del>DELETE D.</del>	<del>DELETE D.</del>
10	Sr. Construction Manager (Roads & Utilities) (1Nos.)	12	N/A		9	Sr. Construction Manager (Water Infrastructure) (1Nos.)	18	3 (intermittent)
11	Engineer -Process (1Nos.)	3 (intermittent)	1 (intermittent)		10	Sr. Construction Manager (Roads & Utilities) (1Nos.)	12	N/A
12	Engineer -Electrical (1Nos.)	6 (intermittent)	3 (intermittent)		11	Engineer -Process (1Nos.)	3 (intermittent)	1 (intermittent)
13	Engineer -Mechanical (1Nos.)	6 (intermittent)	3 (intermittent)		12	Engineer -Electrical (1Nos.)	6 (intermittent)	3 (intermittent)
14	Engineer -Instrumentation & Control, Automation, SCADA (1Nos.)	6 (intermittent)	3 (intermittent)		13	Engineer -Mechanical (1Nos.)	6 (intermittent)	3 (intermittent)
<b>B: Other Professional Staff</b>					14	Engineer -Instrumentation & Control, Automation, SCADA (1Nos.)	6 (intermittent)	3 (intermittent)
<b>B: Other Professional Staff</b>					<b>B: Other Professional Staff</b>			

15	Environment, Health and Safety Engineer (1Nos.)	12	12 (intermittent)	12 (intermittent)
16	Quantity Surveyor (2Nos.)	2 X 12	N/A	N/A
17	Lab Technician (Civil Laboratory)(2Nos.)	2 X 12	N/A	N/A
18	Lab technician ( Chemical Laboratory in O&M period) (1Nos.)	4 (intermittent)	6 (intermittent)	N/A
19	QA/QC Engineer (1Nos.)	12	N/A	N/A
20	Survey Engineer (1Nos.)	12	N/A	N/A
21	Site Engineers( Water Infrastructure) (2Nos.)	2X12	6 (intermittent)	1 X 6 (intermittent)
22	Site Engineer (Electrical) (1Nos.)	6 (intermittent)	6 (intermittent)	6 (intermittent)
23	Site Engineer (Mechanical) (1Nos.)	12	3 (intermittent)	3 (intermittent)
24	Site Engineer (Roads & Utilities) (2Nos.)	2X12	N/A	N/A



6	RFP: Section 7: TOR,	FIXED MONTHLY COST (RENT / LEASE):				FIXED MONTHLY COST (RENT / LEASE):			
		25	O&M Engineer (Water Supply) (1Nos.)	N/A	24	25	O&M Engineer (Water Supply) (1Nos.)	N/A	24
		26	O&M Engineer (Mechanical) (1Nos.)	N/A	24	26	O&M Engineer (Mechanical) (1Nos.)	N/A	24
		27	O&M Engineer (Electrical) (1Nos.)	N/A	24	27	O&M Engineer (Electrical) (1Nos.)	N/A	24
		28	O&M Engineer (Instrumentation & Control, SCADA) (1Nos.)	N/A	24	28	O&M Engineer (Instrumentation & Control, SCADA) (1Nos.)	N/A	24
		29	BIM and CAD Manager (1Nos.)	12	3 (intermittent)	29	<del>DELETED.</del>	<del>DELETE D.</del>	<del>DELETE D.</del>
		30	CAD Experts (2Nos.)	2 X 12	N/A	30	CAD Experts (2Nos.)	2 X 18	N/A
		31	Site Engineers (Civil) (4Nos)	4 X 12	N/A	31	Site Engineers (Civil) (4Nos)	4 X 18	N/A
		32	Office Manager (1Nos.)	12	24	32	Office Manager (1Nos.)	18	24
		33	Accountant (1Nos.)	12	N/A	33	Accountant (1Nos.)	18	N/A
		34	Office Assistant (3Nos.)	3 X 12	1 X 24	34	Office Assistant (3Nos.)	3 X 18	1 X 24
			Total	406	237		Total	538	231
		Details		UoM	No. of Months	Details		UoM	No. of Months

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2. Fixed Costs (Rental /Leased ): Pg. No. 147]	S. No	No of Job Units/ Area / Others	During Construction	Dur ing DL P	Ma x Poi nts
<b>Office Rent at Vijayawada</b>					
	1	Team Leader's Office 150 sqm	12	24	NA
	2	Other Staff Office 400 sqm	12	0	NA
<b>Office Furniture and Equipment: (## Requirements furnished at the end of this table)</b>					
	3	Team Leader's Office 1 month	12	24	NA
	4	Other Staff Office 1 month	12	0	NA
<b>Duty Travel:</b>					
	5	Key Professional Staff Round Trip: Vijayawada to Hyderabad	8	2	NA
<b>Office Furniture and Equipment: (## Requirements furnished at the end of this table)</b>					
	1	Team Leader's Office 150 sqm	18	24	42
	2	Other Staff Office 400 sqm	18	0	18
<b>Office Furniture and Equipment: (## Requirements furnished at the end of this table)</b>					
	3	Team Leader's Office 1 month	18	24	42
	4	Other Staff Office 1 month	18	0	18
<b>Duty Travel:</b>					
	5	Key Professional Staff Round Trip: Vijayawada to Hyderabad	10	2	12

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Transportation :						
6	Team Leader Office	Innova / Scorpio or equivalent (not more than 3years old)	1	12	24	NA
7	Other Staff Offices	Ambassador / Indica or equivalent (not more than 3 years old)	4	48	0	NA
<b>Office Supplies, Utilities and Communication:</b>						
8	Office Supplies	TL Office	1	36	24	NA
9	Office Supplies	Other Staff Offices	1	12	0	NA
10	Drafting Supplies	TL Office	1	36	12	24

Transportation :						
6	Team Leader Office	Innova / Scorpio or equivalent (not more than 3years old)	1	Nos.	18	24
7	Other Staff Offices	Ambassador / Indica or equivalent (not more than 3 years old)	4	Nos.	18	0
<b>Office Supplies, Utilities and Communication:</b>						
8	Office Supplies	TL Office	1	Nos.	18	24
9	Office Supplies	Other Staff Offices	1	Nos.	18	0
10	Drafting Supplies	TL Office	1	Nos.	18	24
						<b>42</b>
						<b>18</b>
						<b>42</b>

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11	Drafting Supplies	Other Staff Offices	1	12	12	0	NA
12	Computer Running Costs	TL Office	1	36	12	24	NA
13	Computer Running Costs	Other Staff Offices	1	12	12	0	NA
14	Communication	TL Office	1	36	12	24	NA
15	Communication	Other Staff Offices	1	12	12	0	NA
<b>Reports and Document Printing:</b>							
16	Inception Report	3 copies	1	NA	NA	NA	NA
17	Monthly Technical Reports	3 copies	3	NA	NA	NA	NA
18	Quarterly Reports	3 copies	9	NA	NA	NA	NA
19	Additional Technical Reports	3 copies	5	NA	NA	NA	NA
11	Drafting Supplies	Other Staff Offices	1	18	18	0	18
12	Computer Running Costs	TL Office	1	18	18	24	42
13	Computer Running Costs	Other Staff Offices	1	18	18	0	18
14	Communication	TL Office	1	18	18	24	42
15	Communication	Other Staff Offices	1	18	18	0	18
<b>Reports and Document Printing:</b>							
16	Inception Report	3 copies	1	NA	NA	NA	1
17	Monthly Technical Reports	3 copies	3	NA	NA	NA	24
18	Quarterly Reports	3 copies	9	NA	NA	NA	8
19	Additional Technical Reports	3 copies	5	NA	NA	NA	2

## - Office Furniture and Equipment						## - Office Furniture and Equipment							
20	Draft	3	4	NA	NA	20	Draft	3	Nos.	1	1	2	
	Completi on Report	copies					Completi on Report	copies					
21	O & M Manual	3 copies	1	NA	NA	21	O & M Manual	3 copies	Nos.		1	1	
## - Office Furniture and Equipment						## - Office Furniture and Equipment							
1	Executive (Godrej Model T-108 or equivalent)	Table Make, T-108 or equivalent)	1	12	24	NA	1	Executive (Godrej Model T-108 or equivalent)	Table Make, T-108 or equivalent)	1 Nos.	18	24	42
2	Executive (Godrej model PCH-701, or equivalent)	Chairs make, make, model PCH-701, or equivalent)	1	12	24	NA	2	Executive (Godrej model PCH-701, or equivalent)	Chairs make, make, model PCH-701, or equivalent)	1 Nos.	18	24	42
3	Tables make, Model T-104 or equivalent)	(Godrej make, Model T-104 or equivalent)	11	12	0	NA	3	Tables make, Model T-104 or equivalent)	(Godrej make, Model T-104 or equivalent)	11 Nos.	18	0	18
4	Ordinary Type-I make, model T- CHR-6 or equivalent)	chairs (Godrej make, model T- CHR-6 or equivalent)	11	12	0	NA	4	Ordinary Type-I make, model T- CHR-6 or equivalent)	chairs (Godrej make, model T- CHR-6 or equivalent)	11 Nos.	18	0	18
5	Tables (for all other staff) Godrej make, Model T-101 or equivalent)	(for all other staff) Godrej make, Model T-101 or equivalent)	6	12	0	NA	5	Tables (for all other staff) Godrej make, Model T-101 or equivalent)	(for all other staff) Godrej make, Model T-101 or equivalent)	6 Nos.	18	0	18
6	Ordinary Type-II For all other staff, Godrej make,	chairs Type-II For all other staff, Godrej make,	6	12	0	NA	6	Ordinary Type-II For all other staff, Godrej make,	chairs Type-II For all other staff, Godrej make,	6 Nos.	18	0	18

B2

B2

B2



13	Revolving chairs for computer room / drawing room	2	12	0	NA	13	Revolving chairs for computer room / drawing room	2 Nos.	<u>18</u>	0	<u>18</u>
14	telephone with PABX facilities ( 2 external lines and 10 internal lines)	1	12	0	NA	14	<del>DELETED</del>		<del>DELETED</del>	0	<u>18</u>
15	Photocopier	1	12	0	NA	15	Photocopier	1 Nos.	<u>18</u>	0	<u>18</u>
16	Fax	1	12	0	NA	16	<del>DELETED</del>		<del>DELETED</del>		
17	Air conditioners (1.5 ton)	2	12	0	NA	17	Air conditioners (1.5 ton)	2 Nos.	<u>18</u>	0	<u>18</u>
18	Computer PC (state of the art)	3	12	0	NA	18	Computer PC (state of the art)	3 Nos.	<u>18</u>	0	<u>18</u>
19	Laser Jet printers	1	12	0	NA	19	Laser Jet printers	1 Nos.	<u>18</u>	0	<u>18</u>
20	15 KVA Diesel Generator with running cost	1	12	0	NA	20	15 KVA Diesel Generator with running cost	1 Nos.	<u>18</u>	0	<u>18</u>
21	Binding Machine	1	12	0	NA	21	Binding Machine	1 Nos.	<u>18</u>	0	<u>18</u>
22	Engineering Plan printer	1	12	0	NA	22	Engineering Plan printer	1 Nos.	<u>18</u>	0	<u>18</u>
23	Plotter A0 size	1	12	0	NA	23	Plotter A0 size	1 Nos.	<u>18</u>	0	<u>18</u>
24	Overhead projector (power point)	1	12	0	NA	24	Overhead projector (power point)	1 Nos.	<u>18</u>	0	<u>18</u>
25	Aircooler (24" size fan with suitable pump and shall be	2	12	0	NA	25	<del>DELETED</del>		<del>DELETED</del>		
						26	Water Coolers (Voltas or Equiv.)	1 Nos.	<u>18</u>	0	<u>18</u>
						27	Software	1 Nos.	<u>18</u>	0	<u>18</u>

		of either GEC, Khitan or Cool Home make or Equiv.)						
	26	Water Coolers (Volas or Equiv.)	1	12	0	NA		
	27	Software	1	12	0	NA		
7	<b>[RFP: Section 1, Clause 18, Schedule of Bidding Process, Pg no. 15]</b> <b>Proposals submission End Date (Off-line): 11-06-2018, 15.30 hrs.</b> <b>Proposals submission End Date (Off-line): 25-06-2018, 15.30 hrs.</b>  							


