

Addendum-1

TENDER

FOR

**SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION
SYSTEM FOR HORTICULTURE & ARBORICULTURE AT
VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR)
LIMITED.**

Tender No : MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE
IRRIGATION/2018-19/T-010 Dt. 03.09.2018

Part-IV(BOQ) : Revised BOQ Attached.

Revised Bid Submission Date :16.09.2018

Addendum -1 BOQ FOR SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM FOR HORTICULTURE & ARBORICULTURE AT VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR) LIMITED.

Tender No. MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE IRRIGATION/2018-19/T-010 Dt. 03.09.2018				SUPPLY		INSTALLATION	
S.No.	Description of Works	Qty	Unit	Rate (Rs.)	Amount (Rs.)	Rate (Rs.)	Amount (Rs.)
A	Providing, installation incl. excavation at desired depth as per approval by Engineer-in-Charge, including cost of openings at crossings at Median, construction of necessary chambers and tapping from existing points of fresh/recycle lines inclusive accessories like clamp, bends, ferulle etc and MS/DI specials of specified class as per IS 4985 for non portable water (recycled water) supply including cost of materials uPVC specials like Elbow, tee, reducers, plug, union, bend, coupler, nipple, elastomeric, rubber rings, sealing rings, etc, wherever required as per relevant IS codes, all complete including joints and providing all jointing materials & wastages all complete with relevant specifications i/c trenching/escavaltion/backfilling etc. & testing of pipes and joints at factory and at site complete as per direction of Engineer in Charge (Make-KISAN,SUPREME,Finolex, JISL AND EQUIVALENT) for Main and Lateral Pipes for Distribution network. (Pipes shall be free issue by MWCJ).(Cost of Supply of accesories and material to be quoted in Supply Column)						
1	uPVC Pipe, 110 mm dia (6 Kg/cm2 pressure)	1404	M				
2	uPVC Pipe,90 mm dia (6 Kg/cm2 pressure)	3400	M				
3	uPVC Pipe, 75 mm dia (6 Kg/cm2 pressure)	950	M				
4	uPVC Pipe, 63 mm dia (6 Kg/cm2 pressure)	4550	M				
5	uPVC Pipe, 50 mm dia (6 Kg/cm2 pressure)	4450	M				
6	uPVC Pipe, 40 mm dia (6 Kg/cm2 pressure)	3750	M				
Sub Total-A							
B	Providing and installation of Filtres as per direction of Engineer-in-Charge.						
1	Providing and fixing sand filter made up of mild steel sheets of epoxy powder coating not less than 50 micron on either surfaces with single manual back wash system having filter media of silica sand or quartz gravel particles ranging between 1mm to 2mm for 40 cum/hr flow rate and upto 10kg/cm ² pressure rating with single inlet conforming to IS 14606	2	NO				
2	Providing and fixing disc filter of engineering plastic alloy having chemical & weather resistance with drip tight stainless steel clamps for three dimensional filtration for 50 cum/hr flow rate and upto 10kg/cm ² operating pressure with single inlet and twin outlet conforming to IS 12785.	2	NO				
Sub Total-B							
C	Providing,Fixing and installation of Pop ups and Accessories as per direction of Engineer-in-Charge.						
1	Providing and fixing 10 cm long popup sprinkler with 6 nos. of nozzels made up of heavy duty plastic alloy with tool free arc adustable diffuser screw controls and sand free seal suitable for 1.50 kg/cm ² to 4.0 kg/cm ² pressure range. conforming to IS 122325.2m Radius,ADJ.ARC.(I-360 DEG.)	1550	NO.				
2	1/2"X30cm Stnd.Swing Joint,4 S.E	1550	NO.				
3	Providing and Fixing uPVC Service Saddle 75 mm X 20 mm (1/2)- Heavy Duty	84	NO.				
4	Providing and Fixing Service Saddle 63 mm X 20 mm (1/2)- Heavy Duty	586	NO.				
5	Providing and Fixing Service Saddle 50 mm X 20mm (1/2)- Heavy Duty	330	NO.				
6	Providing and Fixing Service Saddle 40 mm X 20 mm(1/2)- Heavy Duty	550	NO.				
Sub Total-C							

Addendum -1 BOQ FOR SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM FOR HORTICULTURE & ARBORICULTURE AT VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR) LIMITED.

Tender No. MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE IRRIGATION/2018-19/T-010 Dt. 03.09.2018				SUPPLY		INSTALLATION	
S.No.	Description of Works	Qty	Unit	Rate (Rs.)	Amount (Rs.)	Rate (Rs.)	Amount (Rs.)
D	Providing and Installation of Micro Irrigation & Accessories as per direction of Engineer-in-Charge.						
1	Providing and fixing openable type key dripper made up of virgein plastic with manufacturing variation coefficient not more than 3% for discharge of 4.0 liter per hour. conforming to IS 13487 SC-PC Dripper Plus 8.2 LPH	5500	NO.				
2	Providing and fixing extruded seamless extension tubes made up of high grade virgin plastic for discharge of 4.0 Liter per hour with 60 cm dripper spacing. Dripper ASM 1MSC-PC Plus 8.2 LPH	5500	NO.				
3	Providing and fixing extruded tubes of virgin low linear density ployethylene pipes of 2.50 kg / cm ² pressure rating including the cost of tube take off, gormmet, connector, joiner, end cap etc. conforming to IS 13488 Tube OD16 mm CL2X250 Mtr	12000	M				
4	Providing and fixing extruded tubes of virgin low linear density ployethylene pipes of 2.50 kg / cm ² pressure rating including the cost of tube take off, gormmet, connector, joiner, end cap etc. conforming to IS 13488 Line 16MM 2.4LPH 30cm CL2 250Mtr Pc	32000	M				
5	Line Aqur Poly Grommet TO16 X 13mm	1000	NO.				
6	Emitting Pipe Joiner 16X16 OD	1000	NO.				
7	Lateral End Stop "8" Shape 16 mm	1000	NO.				
8	Barbed Elbow 16 mm	500	NO.				
9	J-Turbo AQUR/ Line Tee 16 mm	500	NO.				
Sub Total-D							
E	Providing and Installation of Valves & Accessories as per direction of Engineer-in-Charge.						
1	Providing and fixing control valve made up of rigid PVC compound with teflon seal of size 75mm.	35	NO.				
2	Providing and fixing control valve made up of rigid PVC compound with teflon seal of size 75mm.	16	NO.				
3	Providing and fixing flush valve made up of rigid PVC compound with teflon seal of size 50 mm	10	NO.				
4	Providing and fixing flush valve made up of rigid PVC compound with teflon seal of size 40 mm	80	NO.				
5	Providing and fixing continous acting air release valve made of made up of rigid PVC compound for working pressure upto 10.0 kg/cm ² of 25mm dia. DBL Act Air /VAC Rele VLV1"+D3750	15	NO.				
6	Providing and fixing air release valve assembly with out air valve made up of rigid PVC compoundof size 1"x110 mm. Assem W/O Air Valve 32 mm(1)X110mm	5	NO.				
7	Providing and fixing air release valve assembly with out air valve made up of rigid PVC compoundof size 1"x90 mm. ARV ASSEM. W/O AIR VALVE 32MM(1)X90MM	9	NO.				
8	Providing and fixing pressure relief metal valve with pressure range PRESSURE RELIEF VAL PL 90MM(3) THREAD	2	NO.				
9	Providing and Fixing IRRIGATION VALVE BOX 10"	102	NO.				
Sub Total-E							

Addendum -1 BOQ FOR SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM FOR HORTICULTURE & ARBORICULTURE AT VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR) LIMITED.

Tender No. MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE IRRIGATION/2018-19/T-010 Dt. 03.09.2018				SUPPLY		INSTALLATION	
S.No.	Description of Works	Qty	Unit	Rate (Rs.)	Amount (Rs.)	Rate (Rs.)	Amount (Rs.)
F	Providing and Installation of Fresh water supply - hydropneumatic pressure boosting Irrigation pumping System as per direction of Engineer-in-Charge.						
1	Supply, Installation, testing and commissioning of fresh water supply hydropneumatic pressure boosting system (The cost should be inclusive for 3 nos of pump sets),of capacity 8.5 LPS (30 M ³ /Hr) 48 m head each including parallel mounted common base frame of galvanised sheet with suction & discharge manifolds(header) of G.I Pipe, valves, accessories, pressure tank as prescribed by manufacturer, including header's In/Out connectios from the existing line and delivery headers with required accessories. VFD based common electric control panel board (Operating in 2W+1standby mode) the Panel shall be PLC based include all required fuses, motor protection,dry run protection, inline opeartion, main switch, harmonic suppression system,SPD with required electrical and control wiring. complete and as directed by the engineer in charge. (Grundfos,xylem, Vilo or equivalent make)	1	Lot				
	Sub Total-F						
G	Providing,Installation of Irrigation automation Control System as per approved I/O and logic for the operation for selective operations with schedules as per direction of Engineer-in-Charge.						
1	Gavish Spirit Pro 16 x 16 Station or equivalent PLC panel	1	Nos				
2	Wireless kit	1	Nos				
3	Remote terminal unit 4 o/p	18	Nos				
	Sub Total-G						
H	Providing and Installation of electrically/ hydraulically actuated solenoid control vlaves made of virgin plastic material, pressure capacity 10 kg/cm²,having solvent glued/ threaded/ flanged end connection Field Valves & water meter etc as per direction of Engineer-in-Charge.						
1	HYDRAULIC VALVE PLASTIC 75MM(2.5) ASSEMBL	35	Nos				
2	HYDRAULIC VALVE PLASTIC 63MM(2) ASSEMBLED	16	Nos				
3	SOLENOID PILOT VALVE DC	51	Nos				
	Sub Total-H						
I	Providing and Installation of Electrical Fittings & Accessories as per direction of Engineer-in-Charge.						
1	1.0 MM DOUBLECOREMULTISTRANDWIRE	900	M				
2	Protective conduit PVC 25mm	900	M				
3	VOLTAGE STABILIZER 1 KVA	1	Nos				
4	Water supply on/off Electronic controller with level sensors with suitable Electromech valve	1	Lot				
5	Supply and laying an connection of 4Cx25 sqmm Al armoured cable for the panel connections from the source power panel	250	M				
	Sub Total-I						

Addendum -1 BOQ FOR SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM FOR HORTICULTURE & ARBORICULTURE AT VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR) LIMITED.							
Tender No. MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE IRRIGATION/2018-19/T-010 Dt. 03.09.2018				SUPPLY		INSTALLATION	
S.No.	Description of Works	Qty	Unit	Rate (Rs.)	Amount (Rs.)	Rate (Rs.)	Amount (Rs.)
J	Construction of Storage Tank for Water for Irrigation and maintenance purpose (rate to be quoted in installation part only)						
1	Installation of Storage Tank of Capacity (10000 Ltr) (Make Sintex/equivalent) along with accessories such as pipes for plumbing etc. (Tank shall be issued by MWCJ)	1	No.				
2	Construction of Misc. Civil Works such as Storage Tank platform including drainage and plumbing part etc. as per approved drawing by MWCJ and as per direction of Engineer-in-Charge						
a	Providing and Laying of Cement concrete M30 design mix (RMC) for all reinforced cement concrete works namely side walls, deck slab and other similar works and other similar structures etc. with water cement ratio not exceeding 0.45 and minimum cement content of 400 kg per cubic meter, using PPC - 53 grade, river sand, 20 mm and down size coarse aggregates, necessary approved admixtures as per requirement in structural and non structural works excluding the cost of steel reinforcement, fabrication charges, s but including huttering and centering, all leads, lift, laying, vibrating the concrete, curing etc, all complete and as directed by the Engineer in charge. Mix design data has to be got approved engineer in-charge.	3.05	cum				
b	Providing and Laying of plain cement concrete 1:3:6 (one of Cement -PPC 43 grade three of Sand: six of hard broken stone jelly 40 mm nominal size, including laying, curing, finishing etc complete. Complying with relevant standard specification and as directed by the Engineer in charge. (Bed concrete)	2.13	cum				
c	Fabricating and placing in position of Thermo-Mechanically Treated bars (TMT) for reinforcement with Fe 500 grade steel for all structures in the drain including cost of binding wire, cutting, bending, tying etc, all complete complying with relevant standard specification and as directed by the Engineer in charge in rectangular drain (RCC) and box culverts. (Steel shall be issued free of cost by MWCJ based on reconciliation).	0.21	MT				
d	Providing and constructing Brick masonry with bricks of class designation 75 [Crushing strength not less than 75 kg/sqcm] and thickness specified at all heights and levels in foundations, plinth and superstructure including providing scaffolding, raking out joints, curing, dewatering etc., complete as per drawing. b) 230 mm thick and above (nominal dimension) in super structure in cement mortar 1:6 mix (1 cement: 6 coarse sand).	6.38	cum				
e	Internal Plaster - Providing cement plaster on brick walls and RCC (beams columns coping)surface in cement sand mortar 1:4/1:6 (1 cement : 4/6 fine sand 50% coarse + 50% fine) including raking of joints etc. complete fine finish and as under :12-15mm thick	4.45	sqm				
f	External Plaster - Providing cement plaster on brick walls and RCC (beams columns coping)surface in cement sand mortar 1:4/1:6 (1 cement : 4/6 fine sand 50% coarse + 50% fine) including raking of joints etc. complete fine finish and as under :20 mm thick	4.90	sqm				
g	Fabrication, Providing and fixing MS Structure shed including providing and fixing Polycarbonate Sheet as per approval by MWCJ for Pumps and Panels etc. complete with all aspects as per direction of Engineer-in-Charge as per approved drawing by MWCJ	500.00	kg				

Addendum -1 BOQ FOR SUPPLY, INSTALLATION AND MAINTENANCE OF IRRIGATION SYSTEM FOR HORTICULTURE & ARBORICULTURE AT VERTICAL SPINE ROAD, MAHINDRA WORLD CITY (JAIPUR) LIMITED.

Tender No. MWCJL/INFRA/VSR/NON SEZ ZONE/LANDSCAPE IRRIGATION/2018-19/T-010 Dt. 03.09.2018				SUPPLY		INSTALLATION	
S.No.	Description of Works	Qty	Unit	Rate (Rs.)	Amount (Rs.)	Rate (Rs.)	Amount (Rs.)
J	Construction of Storage Tank for Water for Irrigation and maintenance purpose (rate to be quoted in installation part only)						
h	Dismantling and Repairing Charges of existing drain of Size 1.5 m X 1.25 mtr.	LS	1				
i	Providing and Fixing Precast RCC Box M-40 "AA" loading including 200mm thickness M-10 base concrete Size 1.50 M X 1.25 M. including necessary backfilling and compaction etc.as per direction of Engineer-in-Charge.	5.00	mtr				
	Sub Total-J						
K	Total of A+B+C+D+E+F+G+H+I+J (Development)						
L	Total Maintenance for Two years post completion of defect liability period (rate to be quoted in installation part only)		24 Months				
	GST @			12%		18%	
	Total (K including GST)						
	Total (L including GST)						
	Grand Total (Supply+Installation+Maintenance)						

Note:-

- Rate shall be inclusive of cess,all charges ,labour charges except GST, which shall be paid extra as applicable.GST is nill in SEZ against LUT.
- Time is essence of the Contract. Supply and Installation to be completed within 60 days.Maintenance to be done for period of 24 Months from the completion of Defect Liability Period. Contractor needs to submit the Performance Bank Guarantee of 5% of the total Contract Value of the nationalized bank for validity more than one month of the Contract period. as mentioned in the bid document.
- Any extra Items /increase in qtys. other than BOQ shall be pre-intimated before execution. Such Items shall be recorded in Site Instruction book and same shall be paid as per approval by Engineer-in Charge based on proper rate analysis (in case of extra items) by Contracts Deptt.
- Requirement of free issue material to be informed in advance.Reconciliation to be done on every R.A.Bills for the free issue material and physical stock to be given for the free issue material every month.
- Automation System and any other BOQ items can be changed/eliminated as per the actual requirement. Order can be split into parts for Supply, Installation and Maintenance.