

**WDFC FIELD UNIT-AJMER-CIVIL/WDFC
TENDER DOCUMENT**

Tender No: All-EN-OHSR-MD-IQG-22-193

Closing Date/Time: 24/09/2022 12:00

GM/DFCCIL/AJMER acting for and on behalf of The President of India invites E-Tenders against Tender No **All-EN-OHSR-MD-IQG-22-193** Closing Date/Time 24/09/2022 12:00 Hrs. Bidders will be able to submit their original/revised bids upto closing date and time only. Manual offers are not allowed against this tender, and any such manual offer received shall be ignored.

Contractors are allowed to make payments against this tender towards tender document cost and earnest money only through only payment modes available on IREPS portal like net banking, debit card, credit card etc. Manual payments through Demand draft, Banker cheque, Deposit receipts, FDR etc. are not allowed.

1. NIT HEADER

Name of Work	Construction of Over Head Water Tank including rising mains & distribution pipe line from km 1050 to 645 in the jurisdiction of GM/Co Ajmer		
Bidding type	Normal Tender		
Tender Type	Open	Bidding System	Single Packet System
Tender Closing Date Time	24/09/2022 12:00	Date Time Of Uploading Tender	01/09/2022 17:36
Pre-Bid Conference Required	No	Pre-Bid Conference Date Time	Not Applicable
Advertised Value	62012258.00	Tendering Section	WORKS
Bidding Style	Single Rate for Tender	Bidding Unit	Above/Below/Par
Earnest Money (Rs.)	460100.00	Validity of Offer (Days)	45
Tender Doc. Cost (Rs.)	0.00	Period of Completion	6 Months
Contract Type	Works	Contract Category	Expenditure
Bidding Start Date	10/09/2022	Are Joint Venture (JV) firms allowed to bid	No
Ranking Order For Bids	Lowest to Highest	Expenditure Type	Capital (Works)

2. SCHEDULE

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule A-PHED BSR-Estimate of rising mains pipe line							8359175.00	
	Please see Item Breakup for details.				3623400.00	AT Par	3623400.00	
1	Description:- PHED BSR 2022/1.1 Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining suitable for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.) satisfactory hydraulic testing, disinfection etc. complete as per technical specifications and direction of Engineer-in-charge. (excluding earth work) Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.							
	Please see Item Breakup for details.				330000.00	AT Par	330000.00	
2	Description:- PHED BSR 2022/1.11 Providing and fixing of flanged/ plain ended MS Specials made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete including all taxes, material, labour, inside lining, outside coating, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge.							
	41	2200.00	cum	194.00	426800.00	AT Par	426800.00	
3	Description:- PHED BSR 2022/4.1 Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50 Mtr. including required all safety provisions etc.: All kinds of soil							
	Please see Item Breakup for details.				381700.00	AT Par	381700.00	
4	Description:- Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and stacking serviceable material for measurements and disposal of unserviceable material as directed, with in a lead of 50 Mtr. including all safety provisions required .:							
	Please see Item Breakup for details.				246400.00	AT Par	246400.00	

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5	Description:- PHED BSR 2022/6.8-Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete confirming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, (Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Inersion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 6.8.1-Manually Operated Resilient Seated Sluice Valves of Class PN 1.6						
	Please see Item Breakup for details.		148720.00	AT Par	148720.00		
6	Description:- PHED BSR 2022/4.6 Dismantling of flexible pavement for pipe line and chambers by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks per technical specification and scope of work.						
	45	220.00	cum	718.00	157960.00	AT Par	157960.00
7	Description:- PHED BSR 2022/4.8 Dismantling of cement concrete pavement for pipe line line and chambers by mechanical means using pneumatic tools, cutting the peripheral edge by CC cutter, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks as per technical specification and scope of work.						
	Please see Item Breakup for details.		1358720.00	AT Par	1358720.00		
8	Description:- PHED BSR 2022/4.8 Providing and laying in position cement concrete in specified grade over prepared base course complete including finishing, curing, all material, labour, machinery, lighting, guarding for road restoration work in trenches of pipe line and chamber work. Measurement for CC work to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, complete work as per technical specification and scope of work.						
	14	2475.00	Sqm	681.00	1685475.00	AT Par	1685475.00
9	Description:- PHED BSR 2019/14 Ajmer Restoration of bitumen road by patch work of WBM using crushed / broken aggregate as per the standard specification and consolidation with hand rammer spreading and consolidation of binding material , cleaning of surface of WBM and providing of seal & tack coat as per site condition by using ready cold mix up to the satisfaction of engineer in charge. The rate includes the making of pit in regular shape, all labour, material and T&P charge complete job.						
	Please see Item Breakup for details.		32697500.00	AT Par	32697500.00		

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit	
Schedule B-PHED BSR-Estimate of RCC OHSR							49313385.00		
1	Please see Item Breakup for details.							32697500.00	AT Par
	Description:- PHED BSR 2022/3.2 Construction of RCC INTZE type Head Service Reservoir of following capacity and staging consisting of excavation in all types of strata, RCC work, cement plaster with water proofing compound to the inner face of the container including refilling disposing off the surplus stuff, plinth protection , all labour and material charges including providing and fixing of accessories such as ladder , manhole frame and covers, water level indicator (float type), ventilator with SS screen, lightening arrestor, float valve, puddle collar, G.I. pipe railing around walk way and top dome, providing RCC staircase from 4.5 mtr height of ground level to top level, chambers for all valves, providing and applying three coats of cement paint to the external surfaces of container, column, bracing, carbonation paint on external surface of top dome, food grade epoxy paint on internal surface and giving satisfactory hydraulic test and water tightness test as per I.S. code, etc. complete in all respect as per design data, criteria, obligatory requirements and detailed specifications, scope of work and GA drawing. The job includes conducting SBC test, design and proof check of reservoirs (if required),painting the name of the scheme and other details on the reservoir, providing alluminium portable ladder suitable to reach at height of 4.5 Mtr(start of RCC reservoir) and any other work related to structure as per the directions of Engineer-in- Charge, Technical Specification and Scope of Work . 3.2.4 Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 22 M							4388670.00	AT Par
Please see Item Breakup for details.							4388670.00	AT Par	4388670.00

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2	Description:- PHED BSR 2021/3.7 Providing and fixing double flanged ISI marked DI Class K-9 pipes as per IS:8329-2000 (amended up to date), as vertical pipes for RCC Reservoirs including specials required such as duck foot bend, bend, tee etc. providing clamps at every 3 mtr, jointing materials such as nuts, bolt, rubber packing, hydraulic testing etc. complete in all respect up to and from valve chamber as per direction of EIC, Technical Specification and Scope of work.						
	Please see Item Breakup for details.	765875.00	AT Par	765875.00			
3	Description:- PHED BSR 2022/6.8 "Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete confirming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Inersion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. Class PN 1.0/1.6 "						
	Please see Item Breakup for details.	1914000.00	AT Par	1914000.00			
4	Description:- PHED BSR 2022/1.3 Providing, lowering, laying, aligning, fixing in position and jointing at all level/ depths DI standard specials with rubber ring (EPDM)/ nut bolt and insertion sheet and jointing as per IS: 9523-2000 or as amended up to date, such as tees, bends, tapers, caps etc. within trenches in DI pipe line complete including all material, labour, taxes, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge (excluding earth work).						
	82	1430.00	Running Metre	5738.00	8205340.00	AT Par	8205340.00
5	Description:- PHED BSR/2022/8.2 "Construction of boundary wall of Brick/ stone masonry as per enclosed GA drawing, scope of work and technical specifications complete work in all respect. Brief details of boundary wall parameter is as below: 1. Depth of foundation- 900 mm. 2. PCC in M-10, width -900 mm and thickness 100 mm, 3. Stone masonry in CM: 1:6 section of foundation above PCC, 600 mm (W)x 450 mm (D) and 450 mm (W) x 450 mm (D) 4. Superstructure work: Stone masonry in CM: 1:6, W-300, height-1650 mm,/ Brick work in CM: 1:6 W-230 mm, height- 1650 mm. 5. Cement mortar pointing on Stone masonry and cement mortar plaster 20 mm thick on brick masonry in CM 1:6. 6. Expansion joint shall be on every 30 mtr. 7. On top of wall there shall be CC Coping 75 mm thick (1:2:4) shall be provided. 8. Pillar for main gate 350x350 mm in size is part of boundary wall. 9. Cement paint of approved colour in 3 coat shall be done. "						
	83	11000.00	Kg	122.00	1342000.00	AT Par	1342000.00
6	Description:- PHED BSR/2022/8.3 Providing and fixing steel, gate,grating and grills made of angles, tees, square bars, flats or black pipe with hold fast and fitting complete as per design and drawing including cutting welding and fabrication with priming coat of red oxide and two coat of enamel paints.						

S.No.	Item Code	Item Qty	Qty Unit	Unit Rate	Basic Value	Escl.(%)	Amount	Bidding Unit
Schedule C-PHED BSR Estimate of distribution mains pipe line							4339698.00	
	Please see Item Breakup for details.				2559700.00	AT Par	2559700.00	
1	Description:- PHED BSR 2022/1.1 "Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining suitable for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.) satisfactory hydraulic testing, disinfection etc. complete as per technical specifications and direction of Engineer-in-charge. (excluding earth work) Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately."							
	Please see Item Breakup for details.				165000.00	AT Par	165000.00	
2	Description:- PHED BSR 2022/1.11 Providing and fixing of flanged/ plain ended MS Specials made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete including all taxes, material, labour, inside lining, outside coating, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge.							
	41	924.00	cum	194.00	179256.00	AT Par	179256.00	

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3	Description:- PHED BSR 2022/4.1 "Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and disposal of surplus excavated soil as directed within a lead of 50 Mtr. including required all safety provisions etc.: All kinds of soil"						
	Please see Item Breakup for details.	137412.00	AT Par	137412.00			
4	Description:- PHED BSR 2021/4.3 "Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and stacking serviceable material for measurements and disposal of unserviceable material as directed, with in a lead of 50 Mtr. including all safety provisions required .:"						
	Please see Item Breakup for details.	428450.00	AT Par	428450.00			
5	Description:- PHED BSR 2022/6.8 Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete conforming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Inserion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 6.8.1 Manually Operated Resilient Seated Sluice Valves of Class PN 1.6						
	Please see Item Breakup for details.	111540.00	AT Par	111540.00			
6	Description:- PHED BSR 2022/4.6 Dismantling of flexible pavement for pipe line and chambers by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks per technical specification and scope of work.						
	45	110.00	cum	718.00	78980.00	AT Par	78980.00
7	Description:- PHED BSR 2022/4.5 Dismantling of cement concrete pavement for pipe line line and chambers by mechanical means using pneumatic tools, cutting the peripheral edge by CC cutter, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks as per technical specification and scope of work.						
	Please see Item Breakup for details.	679360.00	AT Par	679360.00			
8	Description:- PHED BSR 2022/4.8 Providing and laying in position cement concrete in specified grade over prepared base course complete including finishing, curing, all material, labour, machinery, lighting, guarding for road restoration work in trenches of pipe line and chamber work. Measurement for CC work to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, complete work as per technical specification and scope of work.						

3. ITEM BREAKUP

Schedule	Schedule A-PHED BSR-Estimate of rising mains pipe line							
Item- 1	PHED BSR 2022/1.1 Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining suitable for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.) satisfactory hydraulic testing, disinfection etc. complete as per technical specifications and direction of Engineer-in-charge. (excluding earth work) Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately.							
S No.	Item No	Description of Item			Unit	Qty	Rate	Amount

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1	1.1.2	100 MM	Running Metre	2200.00	1647.00	3623400.00
					Total	3623400.00
Item- 2	PHED BSR 2022/1.11 Providing and fixing of flanged/ plain ended MS Specials made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete including all taxes, material, labour, inside lining, outside coating, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1.11.1	MS pipe specials upto 600 mm dia (with minimum 5.0 mm thickness sheet)	Kg	2200.00	150.00	330000.00
					Total	330000.00
Item- 4	Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, rammng of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by rammng, watering etc. and stacking serviceable material for measurements and disposal of unserviceable material as directed, with in a lead of 50 Mtr. including all safety provisions required .:					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.3.1	In ordinary rocks	cum	1100.00	347.00	381700.00
					Total	381700.00
Item- 5	PHED BSR 2022/6.8-Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete conforming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt conforming to IS:1363 and IS: 1367 (Galvanised steel) Inersion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 6.8.1-Manually Operated Resilient Seated Sluice Valves of Class PN 1.6					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	6.8.1.2	100 MM	Numbers	22.00	11200.00	246400.00
					Total	246400.00
Item- 6	PHED BSR 2022/4.6 Dismantling of flexible pavement for pipe line and chambers by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks per technical specification and scope of work.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.6.1	Bituminous courses	cum	220.00	395.00	86900.00
2	4.6.2	Granular courses	cum	220.00	281.00	61820.00
					Total	148720.00
Item- 8	PHED BSR 2022/4.8 Providing and laying in position cement concrete in specified grade over prepared base course complete including finishing, curing, all material, labour, machinery, lighting, guarding for road restoration work in trenches of pipe line and chamber work. Measurement for CC work to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, complete work as per technical specification and scope of work.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.8.1	"M20 grade Nominal Mix 1: 1.5: 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)."	cum	220.00	6176.00	1358720.00
					Total	1358720.00
Schedule	Schedule B-PHED BSR-Estimate of RCC OHSR					

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Item- 1	PHED BSR 2022/3.2 Construction of RCC INTZE type Head Service Reservoir of following capacity and staging consisting of excavation in all types of strata, RCC work, cement plaster with water proofing compound to the inner face of the container including refilling disposing off the surplus stuff, plinth protection , all labour and material charges including providing and fixing of accessories such as ladder , manhole frame and covers, water level indicator (float type), ventilator with SS screen, lightening arrestor, float valve, puddle collar, G.I. pipe railing around walk way and top dome, providing RCC staircase from 4.5 mtr height of ground level to top level, chambers for all valves, providing and applying three coats of cement paint to the external surfaces of container, column, bracing, carbonation paint on external surface of top dome, food grade epoxy paint on internal surface and giving satisfactory hydraulic test and water tightness test as per I.S. code, etc. complete in all respect as per design data, criteria, obligatory requirements and detailed specifications, scope of work and GA drawing. The job includes conducting SBC test, design and proof check of reservoirs (if required),painting the name of the scheme and other details on the reservoir, providing alluminium portable ladder suitable to reach at height of 4.5 Mtr(start of RCC reservoir) and any other work related to structure as per the directions of Engineer-in- Charge, Technical Specification and Scope of Work . 3.2.4 Rates for RCC OHSR,SBC 10 T/sqm, SEISMIC ZONE-II & STAGING 22 M					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3.2.4.1	100KL	Litre	800000.00	28.48	22784000.00
2	3.2.19.8	150 KL capacity	Litre	450000.00	22.03	9913500.00
					Total	32697500.00
Item- 2	PHED BSR 2021/3.7 Providing and fixing double flanged ISI marked DI Class K-9 pipes as per IS:8329-2000 (amended up to date), as vertical pipes for RCC Reservoirs including specials required such as duck foot bend, bend, tee etc. providing clamps at every 3 mtr, jointing materials such as nuts, bolt, rubber packing, hydraulic testing etc. complete in all respect up to and from valve chamber as per direction of EIC, Technical Specification and Scope of work.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	3.7.1	100 mm	Metre	330.00	2505.00	826650.00
2	3.7.2	150 mm	Metre	990.00	3598.00	3562020.00
					Total	4388670.00
Item- 3	PHED BSR 2022/6.8 "Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete confirming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Inersion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. Class PN 1.0/1.6 "					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	6.8.1.2	100 mm dia	Each	11.00	11200.00	123200.00
2	6.8.1.4	150 mm dia	Each	33.00	19475.00	642675.00
					Total	765875.00
Item- 4	PHED BSR 2022/1.3 Providing, lowering, laying, aligning, fixing in position and jointing at all level/ depths DI standard specials with rubber ring (EPDM)/ nut bolt and insertion sheet and jointing as per IS: 9523-2000 or as amended up to date, such as tees, bends, tapers, caps etc. within trenches in DI pipe line complete including all material, labour, taxes, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge (excluding earth work).					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1.3.4.2	Up to 300mm diameter	Kg	11000.00	174.00	1914000.00
					Total	1914000.00
Schedule	Schedule C-PHED BSR Estimate of distribution mains pipe line					
Item- 1	PHED BSR 2022/1.1 "Providing, lowering, laying in trenches, aligning, fixing in position and jointing Ductile Iron (DI) ISI marked K-7 grade S&S pipes as per IS:8329-2000 (amended upto date), with internal cement mortar lining suitable for potable water with rubber ring (EPDM) joints as per IS: 5382-1985 including all taxes (Central and local), transportation and freight charges, inspection charges, loading/ unloading charges, including cost of labour and material, specials (Tee, bend etc.) satisfactory hydraulic testing, disinfection etc. complete as per technical specifications and direction of Engineer-in-charge. (excluding earth work) Note : Providing and fixing of all requisite specials as per drawing, design and layout are inclusive in RM measurement of the item and shall not be paid separately."					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1.1.3	150 mm	Running Metre	1100.00	2327.00	2559700.00
					Total	2559700.00
Item- 2	PHED BSR 2022/1.11 Providing and fixing of flanged/ plain ended MS Specials made from MS sheet strips of relevant IS specification of approved thickness by welding, lowering, laying, aligning, fixing in position at all level/ depths in trenches complete including all taxes, material, labour, inside lining, outside coating, testing and commissioning along with pipe line as per technical specifications and direction of Engineer-in-charge.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	1.11.1	MS pipe specials upto 600 mm dia (with minimum 5.0 mm thickness sheet)	Kg	1100.00	150.00	165000.00
					Total	165000.00
Item- 4	PHED BSR 2021/4.3 "Earth work in excavation by mechanical means (Hydraulic Excavator)/ manual means in trenches of required width and gradient for laying and jointing of pipe line including excavation for sockets, and dressing of sides, ramming of bottoms, depth up to 1.5 Mtr. including taking out the excavated soil, and then returning the soil as required in layers not exceeding 20cm in depth including consolidating each deposited layer by ramming, watering etc. and stacking serviceable material for measurements and disposal of unserviceable material as directed, with in a lead of 50 Mtr. including all safety provisions required .: "					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.3.1	In ordinary rocks	cum	396.00	347.00	137412.00
					Total	137412.00
Item- 5	PHED BSR 2022/6.8 Providing, lowering, aligning, fixing in position in pipe line at work site, DI D/F Resilient seated (soft seated) Sluice Valves (Gate Valves) , Vacuum tight(bubble tight), straight and pocket less body passage of approved make of following class & dia complete confirming to BS-EN-1171/ AWWA C-509 and of following specifications: Body & bonnet of Ductile cast iron of grade GGG40/GGG50 as per DIN 1693 or GR SG-400/12 as per IS 1865 or equivalent grade as per IS :3896-part2-1985 and subsequent revisions, Wedge of same material as body & shall vulcanised rubber lined with EPDM (food grade quality) and seals of NBR Face to face dimensions as per BS 5163-89/ IS 14846/2000 (amended up to date) /Din 3202 F4, Stem/ spindle of SS (AISI 316 or equivalent) Electrostatic epoxy powder(EP-P)/ Fusion bond epoxy (Non-Toxic- suitable for drinking water) coated with minimum thickness of 250 microns inside and outside, Drilled as per IS 1538. Nut-Bolt confirming to IS:1363 and IS: 1367 (Galvanised steel) Inersion rubber of black EPDM 6mm thick. Suitable support structure as per directions of EIC, Sluice valves including all jointing & jointing material, labour, testing and commissioning along with pipe line as per Technical Specifications and as per direction of Engineer-in-charge. Note: Rates are exclusive of tail piece/ dismantling joints and earth work. 6.8.1 Manually Operated Resilient Seated Sluice Valves of Class PN 1.6					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	6.8.1.4	150 MM	Numbers	22.00	19475.00	428450.00
					Total	428450.00
Item- 6	PHED BSR 2022/4.6 Dismantling of flexible pavement for pipe line and chambers by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials up to a lead of 1000 meters. Measurement for dismantled trench to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, re-handling of material/earth to complete the tasks per technical specification and scope of work.					
S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.6.1	Bituminous courses	cum	165.00	395.00	65175.00
2	4.6.2	Granular courses	cum	165.00	281.00	46365.00
					Total	111540.00
Item- 8	PHED BSR 2022/4.8 Providing and laying in position cement concrete in specified grade over prepared base course complete including finishing, curing, all material, labour, machinery, lighting, guarding for road restoration work in trenches of pipe line and chamber work. Measurement for CC work to be made as per standard trench width specified in tender document and no extra payment shall be made for trench width more than specified, complete work as per technical specification and scope of work.					

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S No.	Item No	Description of Item	Unit	Qty	Rate	Amount
1	4.8.1	"M20 grade Nominal Mix 1: 1.5: 3 (1 cement : 1.5 coarse sand : 3 graded stone aggregate 20mm nominal size)."	cum	110.00	6176.00	679360.00
					Total	679360.00

4. ELIGIBILITY CONDITIONS

Special Technical Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Technical Eligibility Criteria The tenderer must have successfully or substantially* completed any of the following during last 07 (seven) years, ending last day of month previous to the one in which tender is invited: Three similar works, each costing not less than the amount equal to 30% of advertised value of the tender, OR Two similar works, each costing not less than the amount equal to 40% of advertised value of the tender, OR One similar work, each costing not less than the amount equal to 60%of advertised value of the tender. Note: The similar nature of work is defined is "Construction of RCC Over Head tank " *To be read along with 15.8	No	No	Allowed (Mandatory)

Special Financial Criteria

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	Financial Eligibility Criteria: The tenderer must have minimum average annual contractual turnover of V/N or 'V' whichever is less; where V= Advertised value of the tender in crores of Rupees N= Number of years prescribed for completion of work for which bids have been invited. The average annual contractual turnover shall be calculated as an average of "total contractual payments" in the previous three financial years, as per the audited balance sheet. However, in case balance sheet of the previous year is yet to be prepared/ audited, the audited balance sheet of the fourth previous year shall be considered for calculating average annual contractual turnover. The tenderers shall submit requisite information as per Annexure-E (Mandatory), along with copies of Audited Balance Sheets duly certified by the Chartered Accountant/ Certificate from Chartered Accountant duly supported by Audited Balance Sheet. Note: Client certificate from other than Govt Organization should be duly supported by Form 16A/26AS generated through TRACES of Income Tax Department of India. As per Clause No. 10.2 of Tender Form (second Sheet) of Annex. I of Part-I of GCC APRIL-2022, with up to date correction slip.	No	No	Allowed (Mandatory)

5. COMPLIANCE

Check Lst

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Not Allowed

Commercial-Compliance

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Allowed (Mandatory)
2	Please enter the percentage of local content in the material being offered. Please enter 0 for fully imported items, and 100 for fully indigenous items. The definition and calculation of local content shall be in accordance with the Make in India policy as incorporated in the tender conditions.	No	Yes	Allowed (Optional)

General Instructions

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Not Allowed

Special Conditions

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S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Not Allowed

Technical-Compliances

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Allowed (Mandatory)

Undertakings

S.No.	Description	Confirmation Required	Remarks Allowed	Documents Uploading
1	As per mentioned in Tender Document.	No	No	Not Allowed

6. Documents attached with tender

S.No.	Document Name	Document Description
1	OHSRtender.pdf	Tender Document

This tender complies with Public Procurement Policy (Make in India) Order 2017, dated 15/06/2017, issued by Department of Industrial Promotion and Policy, Ministry of Commerce, circulated vide Railway Board letter no. 2015/RS(G)/779/5 dated 03/08/2017 and 27/12/2017 and amendments/ revisions thereof.

As a Tender Inviting Authority, the undersigned has ensured that the issue of this tender does not violate provisions of GFR regarding procurement through GeM.

Signed By: VIPIN PARIHAR

Designation : DYPMHQ