

 <p>MECON LIMITED</p>	<p>CORRIGENDUM #3 COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR</p> <p>Tender Doc. No.: 05/51/23V2/TNGCL/001-iv</p>	<p>Date: 18.08.2020</p> <p>Owner : TRIPURA NATURAL GAS COMPANY LIMITED</p>
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Sn. No.	Volume	Page No.	Clause / Para / Section	Description	Additions / Deletions / Modifications
1.	I	365-420	5	“Schedule of Rates/ Price Schedule	<p>Corrected Schedule of Rates is enclosed as Schedule of Rates Rev. 1 at Annexure-I which shall supersede Schedule of Rates uploaded with the tender.</p> <p>Notes:</p> <ul style="list-style-type: none"> i. Bidder must consider Schedule of Rates Rev. 1 while submitting bid. ii. Changes are made in Electrical-Erection sheet only.

Note: This Corrigendum shall form an integral part of the bidding document and shall be signed/stamped and submitted along with the bid.

(STAMP & SIGNATURE OF BIDDER)

SCHEDULE OF RATES Rev. 1

[(Bid Sheets (Schedule of Rates Rev. 1 (Price Bid)/ Schedule of Rates Rev. 1 (Unpriced Bid)) must be downloaded only from www.tenderwizard.com/MECON for bid submission on the e-portal.)]

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

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PART - I : CIVIL WORKS						
SITE CLEARANCE						
CIV-01	DEMOLITION OF R.C.C./BRICKS/STONE MASONARY					
	Site clearance by demolition of R.C.C./PCC/Brickwork/Stone Masonry/Stone Soling, Flexible pavements etc. along with removing the debris and disposal of unserviceable material to any lead and staking of serviceable materials, handing over serviceable material to concerned department if required as per technical specifications and direction of Engineer-in-charge.	CU.M.	10			
	Note:					
	1. Rate includes cost of all labour, tools, tackles, hire charges, royalties, levies, leads, loading/unloading, transportation, water, electric power, illumination etc. complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.					
	2. Demolition of RCC/PCC/Brick Masonry/Road will be paid in NET CUM as demolished.					
EARTH WORK						
CIV-02	EARTH WORK IN EXCAVATION/ SITE GRADING AND BACKFILLING					
a)	Earth work in excavation,site grading and backfilling in all kinds of soil including soft rock in any plan dimension up to 3.0M depth including disposal of excavated surplus and unserviceable earth up to any lead in all conditions. Soil to be leveled and neatly dressed complete in all respect as per scope of work, detailed construction drawings, as per technical specifications and directions of the Engineer-in-charge.	CU.M.	350			
b)	Same as above for more than 3.0 M depth.	CU.M.	300			
Notes:						

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PART - I : CIVIL WORKS						
	1. The Contractor shall take into account in his rate, the provision for excess excavation required for necessary working space, cutting in slopes etc., which may be required for excavation and other allied works and refilling the side slopes and working space in layers as per requirement.					
	2. Rate to include cost of all labour, tools, tackles, equipment, hire charges, shoring, bailing and pumping out water etc. with all bye works and sundry works complete in all respects.					
	3. To be read in conjunction with relevant clause of PJS					
CIV-3	EARTH WORK IN FILLING					
a)	Earth work in filling with good quality imported earth from approved source in the layers of 150 mm and compacted up to 95% to its MDD up to 3 m depth and any plan dimension including all testing, watering, rolling each layer with 1/2 tonne roller or wooden or steel rammers, and every 3rd and top-most layer with power roller of minimum 8 tonnes and dressing / filling up ground depressions etc. complete in all respect as per scope of work, detailed construction drawings, as per technical specifications and directions of the Engineer-in-charge.	CU.M.	5800			
b)	Same as above for more than 3.0 M depth.	CU.M.	90			
	Notes:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of borrow earth by way of royalties, right of way, cess, and backfilling using serviceable earth in all conditions, etc.					
	2. To be read in conjunction with relevant clause of PJS					
CIV-4	SAND FILLING					
	Supplying and filling Sand in 150 mm thick layers watering, rolling, ramming, consolidating and dressing the surface including cost of sand (zone-II/Zone-III sand only) complete in all respect as per scope of work, detailed construction drawings as per technical specifications and directions of the Engineer-in-charge.	CU.M.	50			

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PART - I : CIVIL WORKS						
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, all leads, transportation, loading/unloading, levies towards disposal of surplus/unserviceable earth, borrow earth including compaction and making required slopes and berms, working space etc. with all bye works and sundry works.					
	2. Only plan dimensions as per drawing and true levels & net volume after compaction are measurable for payment purpose.					
	3. To be read in conjunction with relevent clause of PJS.					
	CONSTRUCTION WORK					
CIV-5	BRICK WORK IN SUB STRUCTURE					
	Providing and construction and handing over brick masonry work with brick class designation M-7.5 of IS:1077 in Cement Mortar 1:4 (1cement : 4 coarse sand) below DPC including weep holes, plastering of 15 mm thickness in CM 1:4 on exposed surfaces, mud mat, excavation and backfilling with serviceable earth, complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of	CU.M.	84			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, 1st class bricks (strength not less than M7.5, other minor construction materials, DPC, shuttering, staging, earthwork in excavation and backfilling using serviceable/borrow earth in all conditions, shoring/strutting, finishing, bailing and pumping out water, masonry work, plastering etc. with all bye works and sundry works.					
	2. Only net brick masonry volume as per drawing are measurable for payment purpose.					
	3. To be read in conjunction with relevent clause of PJS.					
CIV-6	BRICK WORK IN SUPER STRUCTURE					

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PART - I : CIVIL WORKS						
	Providing and construction and handing over brick masonry work with brick class designation M-7.5 of IS:1077 in Cement Mortar 1:4 (1cement : 4 coarse sand) in superstructure plastering of 15 mm thickness in CM 1:4 on both the faces complete in all respects as per scope of work, detailed construction drawings , technical specifications and direction of Engineer-in-charge.	CU.M.	20			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, 1st class bricks (strength not less than M7.5), other minor construction materials, shuttering, staging, shoring/strutting, finishing, etc. with all bye works and sundry works.					
	2. Only net brick masonry volume as per drawing are measurable for payment purpose.					
	3. To be read in conjunction with relevent clause of PJS.					
	CIV-7 PLAIN CEMENT CONCRETE					
	Providing, laying in position, construction and handing over of PCC in all types of concrete works including levelling courses below foundations, mass concrete works, chambers, cable trench, under floors and any other locations (which are not covered as part of respective items of SOR) , at all levels and locations etc complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge.					
	a) PCC M-15 (1:2:4) [1 Cement : 2 coarse sand : 4 stone aggregate 20 mm nominal size]	CU.M.	52			
	b) PCC M-10 (1:3:6) [1 Cement : 3 coarse sand : 6 stone aggregate 40 mm nominal size]	CU.M.	175			
	c) PCC M-15 (1:4:8) [1 Cement : 4 coarse sand : 8 stone aggregate 40 mm nominal size]	CU.M.	10			
	Note:					

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PART - I : CIVIL WORKS						
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, coarse sand and coarse aggregates, other minor construction materials, shuttering, staging, shoring/strutting, finishing, etc. with all bye works and sundry works.					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-8	REINFORCED CEMENT CONCRETE IN SUB STRUCTURE WORKS					
	Providing and laying RCC (reinforced cement concrete) of grade M-25 with 20mm and down grade crushed stone aggregate in all types of sub-structures like foundations, beam, columns, pedestals, pedestal bases, cable trench, RCC retaining wall foundation for boundary wall including construction joints, bitumen painting on surfaces in contact with soil, shuttering, supplying and fixing MS inserts/bolts,conduits,precast covers, finishes etc. at all depths and levels complete as per drawings, specifications and directions of the Engineer-in-charge.	CU.M.	500			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement including sulphate resistant cement for sub-structures if required, inserts, bolts, conduits, bitumen painting, excavation, PCC M-10 in mud mat, other minor construction materials, shuttering , staging, testing of concrete, curing etc. except reinforcement steel with all bye works and sundry works complete).					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-9	REINFORCED CEMENT CONCRETE IN SUPER STRUCTURE WORKS					

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PART - I : CIVIL WORKS						
	Providing and laying RCC (reinforced cement concrete) of grade M-25 with 20 mm and down grade crushed stone aggregate in all types of super-structures like slab,columns, beams (except building superstructure which are not covered elsewhere), pedestals, pipe supports, RCC retaining wall, boundary wall including construction joints, shuttering, supplying & fixing MS inserts/bolts,conduits,precast covers, finishes etc. at all heights and levels complete as per drawings , specifications and directions of the Engineer-in-charge.	CU.M.	50			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, coarse sand and coarse aggregates, other minor construction materials, shuttering, staging, shoring/strutting, finishing, supplying & fixing MS inserts/bolts, testing etc. all bye works and sundry works.					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-10 REINFORCEMENT STEEL						
	Supplying and Fabricating and Fixing in position HYSD Steel Reinforcements/ TMT Grade Fe-415 conforming to IS1786-1985 at all levels and positions including the Cost of transport, Straightening, Cutting, Bending, Cranking, Binding, Welding, Provision of necessary Chairs and Spacers, Preparation of bar bending schedule and getting the same approved by EIC etc., complete as per Drawings and Specifications and including Cost of binding wire, Labour etc., all complete in all respects as per scope of work, detailed construction drawings, technical specifications and direction of Engineer-in-charge. The chairs and spacer bars provided will not be Measured for payment.	MT	75			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as reinforcement steel, binding wire etc. with all bye works and sundry works complete.					

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PART - I : CIVIL WORKS						
	2. Chairs, laps, spacers, wastage etc. shall be to contractor's account.					
	3. To be read in conjunction with relevent clause of PJS.					
CIV-11	BOUNDARY WALL					
	Providing, constructing and finishing of compound wall in RCC frame structure with 400mmx350mm column size at an interval of 3.0 m or as specified and height 3m with infill brick masonry 345 thk , 600 high Y angle frames with Concertina coils and RBT tape as specified as per scope of work and detail construction drawings, including plastering, coping, painting, whitewash,concertina coil, finishes all complete as per technical specifications and direction of the Engineer-In-Charge.	Rm	185			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement, RCC M25, concertina coil finishes, bitumen, Y angle, other minor construction materials, shuttering, staging, coping, expansion gap filling with "Capcell" armoured board of "Supreme" make or equivalent and white sealant material, plastering,painting and all other sundry works.					
	2. Foundation/ sub-structure to be paid separately in item for , R/F and RCC substructure vide respective item.					
	3. To be read with in conjunction with Particular Job Specification and tender drawing no. MEC/05/11/STD/022.					
	4.Reinforcement for columns and beam for superstructure shall be paid separately in respective SOR item.					
CIV-12	BUILDING WORKS					
	Construction & handing over of Utility/Office building (G+FF) complete in all respect as per drawng (to be supplied by Owner) and as per scope, technical specification and directions of Engineer-in-charge.					

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PART - I : CIVIL WORKS						
	(Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement, 75 grade bricks, R/F steel, inserts, bolts, conduits, finishes, other minor construction materials, shuttering, staging, earthwork in excavation and backfilling using serviceable earth in all conditions, shoring/strutting, bailing and pumping out water, masonry work, plastering, painting, false ceiling, flooring/false flooring, water proof treatment on roof, anti termite treatment below foundation and floors, plumbing, sanitation, electricians etc. with all bye works and sundry works complete in all respects).					
	1. 40% on casting of roof and completion of brickwork upto roof level.					
	2. 50% on completion of all plumbing, sanitation, electrical, false ceiling, flooring, water proof treatment on roof, sewerage & finishing works inside and outside of the building.					
	3. 10% on handing over of the completed building to the owner.					
	(For payment purpose refer tender drawing for Building works enclosed vide drawing number SKT NO. MEC/05/11/STD/CNG/001)					
	<u>Utility/Office building - Control room,Office room,Store Room,UPS and Battery Room,Electrical Room etc.</u>	SQ.M.	350			
	(To be read in conjunction with relevent clause of PJS)					
CIV-13	PILING UNDER FOUNDATION					
a)	Providing and fixing in position "Bored cast in situ RCC piles skin friction/end bearing type upto 500 mm diameter and 30 T capacity in M 25 Concrete " excluding the cost of reinforcement and getting the designs of same approved by TNGCL/ MECON including driving in ground at specified locations by using standard tools for constructing a rigid support base for supporting the pipe line, boundary wall, buildings etc including all bye works, complete as per drawings, specification and directions of the Engineer-in-charge.	RM	1500			

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PART - I : CIVIL WORKS						
	Notes-1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, shuttering, providing and fixing reinforcement steel testing etc. with all bye works and sundry works and consumables.					
	2. Reinforcement will be paid seperately in respective SOR item.					
b)	Vertical load testing of piles in accordance with IS 2911 (Part IV) including installation of loading platform and preparation of pile head or construction of test cap and dismantling of test cap after test etc. complete as per specification & the direction of Engineer in-charge.					
	Single pile upto 30 tonne capacity					
	Initial test	Nos.	2			
	Routine test	Nos.	4			
CIV-14 BORE WELL						
a)	Supply,laying,drilling and commissioning of G.I.Bore well of 150 mm diameter and up to 100 m depth including submersible pump with all accessories, panel, wiring and all other works required to make it operational all complete in all respects as per scope of work and directions of the Engineer-in-charge.	NOS.	1			
b)	Extra over and above for more than 100 M depth.	Rm	40			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials including pipes, water meter, valves, boring, priming, cabling, pumps, clearing, earth work, etc. with all bye works and sundry works and consumables.					
CIV-15	SOAK PIT AND SEPTIC TANK					

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PART - I : CIVIL WORKS						
	Providing and construction of septic tank and soak pit in brick masonry and base and top slab in RCC M25 complete in all respect as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-in-charge.	NOS.	1			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement including chemical resistant paint for sub-structures, providing and fixing reinforcement steel, bricks, inserts, bolts, covers, aggregates/ sand fill conduits, finishes, bitumen, other minor construction materials, shuttering , staging, earthwork in excavation and backfilling using serviceable/ borrow earth in all conditions, shoring/strutting, bailing and pumping out water, masonry work, plastering, plumbing, sanitation, etc. with all bye works and sundry works.					
	2. To be read in conjunction with relevent clause of PJS.					
	FORECOURT					
CIV-16	RCC FLOORING IN FORECOURT					
	Providing construction and handing over of 150 mm thick RCC (reinforced cement concrete) of grade M-25 with 20mm and down grade crushed stone aggregate forecourt over 100 mm thick PCC M-10 (1:3:6) & 150 mm thick stone soling (63mm to 90mm) with voids filled with coarse sand and murrum including reinforcement steel complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-in-charge.	SQ.M.	950			
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, concrete, R/F steel, earth work in excavation in cutting earth in all conditions, shuttering , expansion joint, boulders, PCC etc. with all bye works and sundry works. Cable and pipe trench area will be deducted from forecourt area.					
	2. To be read in conjunction with relevent clause of PJS.					

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PART - I : CIVIL WORKS						
CIV-17	WEARING COURSE OVER RCC FLOOR					
	Providing & laying in panels 50 mm thick,M-25 (1:1:2) (1 cement, 1 fine aggregates, 2 (6mm) coarse aggregate) screed with wire mesh of 4 mm thick & 75 mm square over RCC floor, all complete as per scope detailed drawings , technical specifications and directions of the Engineer-In-Charge.	SQ.M.	950			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, wire mesh of 4 mm & 75 mm square, screed M-25, shuttering, staging with all bye works and sundry works].					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-18	PROVIDING AND LAYING FLOOR HARDENER					
	Providing and laying heavy duty hardening compound over forecourt ("Diamond Plate" of STP/ "NITO FLOOR HARD TOP" of FOSROC/ "FloorTop ERIU" of CICO / "Floor Top Dura 999" of ROFF) to be laid in panels at all locations (Minimum coverage as per manufacturers specifications) complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-In-Charge.	SQ.M.	950			
	Note:					
	1.Rate to include all material, hardening compound, labour, tools, tackles, shuttering, transportation, water charges, curing etc. complete.					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-19	POLYSULPHIDE FILLING IN JOINTS					
	Providing and placing 12x12 (d) mm polysulphide sealant, over 12x38 mm thickness of Cap cell- of supreme make in the expansion joints in the panels of forecourt and other specified locations; including sand fill, edge preparation by machine cut, cleaning, drying complete in all respects as per scope of work, detailed construction drawings, site sketches, technical specifications and directions of Engineer-In-Charge.	RM	700			
	Note:					
	1. To be read in conjunction with relevent clause of PJS.					

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PART - I : CIVIL WORKS						
CIV-20	PROVIDING AND FIXING GRANITE STONE OVER DISPENSOR ISLAND					
	Providing and fixing 20 mm thick polished, machine cut granite stone for dispenser islands of required size and approved quality laid over 20 mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement , mixed with matching pigment, epoxy touchups, including rubbing, making edge moulding, curing etc all complete as per detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.	SQ.M.	50			
	Note:					
	1. Rate to include all labour, tools, tackles, hire charges, water charges etc complete.					
CIV-21	PAVER BLOCK FLOORING					
	Supplying and laying of Cement Concrete inter locking paver block 80 mm thick, I shape or as per TNGCL or any other approved shape, rough finish, M-40 strength of approved brand laid over the sand bed of minimum 100 mm thick. The CC interlocking blocks to be of uniform Grey colour or as approved by EIC complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-in-charge.	SQ.M.	1000			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such paver blocks, sand, earth work in excavation in cutting earth in all conditions, shuttering with all bye works and sundry works. Cable and pipe trench area will be deducted from paved area.					
CIV-22	SINGLE S.S.TUBE TRENCH IN FORECOURT					

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PART - I : CIVIL WORKS						
	Providing and construction of Single SS tube trench in brick masonry over the 100 mm thick PCC (1:3:6) base with Chequered plate cover of 600x550X 70 mm thk along with edge angle (ISA 75x75x6) and fixing of ISA 50x50x6 for supporting pipe trays @ spacing of 1000 mm c/c along the trench, including 12 mm in CM 1:5 plastering of walls of trenches complete in all respect as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-in-charge. [RM	160			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, bricks, Edge angle, angle for supporting pipe trays, precast SFRC covers (600X550X70), aggregates / sand , finishes, bitumen, other minor construction materials, shuttering , staging, earthwork in excavation and backfilling using serviceable/ borrow earth in all conditions, shoring/strutting, bailing and pumping out water, masonry work, plastering etc. with all bye works and sundry works].					
CIV-23	DOUBLE S.S.TUBE TRENCH IN FORECOURT					
	Same as above for Double SS tube trench.	RM	50			
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement, bricks, Edge angle, angle for supporting pipe trays, Chequered plate covers (600X550X70), aggregates / sand , finishes, bitumen, other minor construction materials, shuttering , staging, earthwork in excavation and backfilling using serviceable/ borrow earth in all conditions, shoring/strutting, bailing and pumping out water, masonry work, plastering etc. with all bye works and sundry works.					
CIV-24	Plaster in CM 1:4					

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PART - I : CIVIL WORKS						
a)	a) Providing and laying 12 mm thick cement plaster on walls, RCC beams, columns and chajja etc of mix 1:4 (1 cement, 4 fine sand) including making of typical grooves drip-course including hacking of RCC roof beams and columns surfaces and curing etc. The job includes the cost of supplying and fixing of chicken wire mesh at every joint of brick masonry and RCC before commencing the plastering work complete in all respect as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-in-charge.	SQM	100			
b)	b) Providing and laying 19 mm thick cement plaster on walls, RCC beams, columns etc of mix 1:4 (1 cement, 4 fine sand) including making of typical grooves drip-course etc including hacking of RCC roof beams and columns surfaces and curing etc. complete. The job includes the cost of supplying and fixing of chicken wire mesh at every joint of brick masonry and RCC before commencing the plastering work complete in all respect as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-in-charge.	SQM	80			
	[Rate to include materials, scaffolding, tools & tackles etc complete.]					
CIV-25	Painting (APEX / Weather coat / Weather shield)					
	Supplying and applying 3 coats of <i>Apex paint</i> of Asian paints / <i>Weather coat</i> of Berger paints / <i>Weather shield</i> of ICI paints on external walls surfaces in approved colour at all heights as per scope of work and recommendations of manufacturer including surface preparation, primer putty etc. detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.	SQM	100			
	[Rate to include priming coat of putty, scaffolding, tools & tackles consumables etc complete.]					
CIV-26	Painting (OBD)					

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PART - I : CIVIL WORKS						
	Supplying and finishing internal walls and ceilings in plaster of paris punning to achieve an even finish and applying 3 coats of Oil Bound Distemper of Asian paints/ Berger/ICI brand in approved colour including surface preparation, primer, putty etc. as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-In-Charge.	SQM	80			
	[Rate to include priming coat putty, POP punning, scaffolding, tools & tackles etc complete.]					
CIV-27	White washing					
	White washing with Dehradun/Rajasthan lime in 3 or more coats to give an even finish including the cost of adding required adhesive (DDL), blue pigment (Robin Blue) etc. on walls, ceiling etc. complete in all respects as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-in-charge.	SQM	100			
	[Rate to include whitening, scaffolding, tools & tackles etc complete.]					
CIV-28	KERB STONE FIXING					
	Providing and fixing precast concrete Kerb stones (125 wide X 300 deep) of M-30 grade or equivalent of approved make and shape at or near ground level as per approved pattern and setting in position with cement mortar 1:3 (one cement : 3 coarse sand) including the cost of required centering, shuttering and finishing smooth with 6 mm thick cement plaster 1:3 (1 cement : 3 fine sand) wherever required over 75 mm thick PCC M-10 levelling course, complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-In-Charge.	RM	180			
	Note:					
	1. Rate to include all labour, tools, tackles, factory manufactured & steam cured Kerb Stones, shuttering, transportation, water charges, earth work if any, PCC etc complete.					
	2. To be read in conjunction with relevent clause of PJS.					
	MISCELLANEOUS OTHER ITEMS					

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PART - I : CIVIL WORKS						
CIV-29	ANCHOR BOLTS AND NUTS					
	Providing and fixing in concrete at all levels and positions, bolts with nuts and washers, pipe sleeves etc. including painting the exposed surfaces with two coats of approved paint, providing grease to exposed area of bolts, welding wherever necessary, complete as per drawing, specifications and instruction of engineer in charge (PCC blocks, jigs and fixtures will not be paid extra) and protecting the same till final erection.	Kg	250			
CIV-30	GROUTING WITH NON-SHRINKABLE COMPOUND					
	Providing and laying manually or by pumping at all positions a ready mix non-shrink cementitious grout of compressive strength specified below for specified works e.g. base grouting of rotating equipment and other installation complete in all respects as per scope of work, detailed construction drawings, technical specifications and directions of the Engineer-In-Charge.					
	a) Having compressive strength of 30 N/mm ²	Per bag of 25 Kg	8			
	b) Having compressive strength 45 N/mm ²	Per bag of 25 Kg	8			
	[1] Approved makes are ACC, FOSROK, ROFF, SEIKA QUALCRETE.					
	2) Minimum coverage as per manufacturers recommendations shall be applied in absence of actual field consumption data.]					
	3. To be read in conjunction with relevant clause of PJS.					
CIV-31	PROVIDING AND LAYING CAP CELL BOARD					
	Providing and laying Cap cell of Supreme make board or equivalent sealing in expansion joints at all locations; including sand fill, edge preparation, cleaning, drying complete in all respects all respects as per scope of work, detailed construction drawings, site sketches, technical specifications and directions of Engineer-In-Charge.					

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PART - I : CIVIL WORKS						
a)	25 mm thickness	SQ.M.	30			
b)	12 mm thickness	SQ.M.	30			
CIV-32 EXTERNAL DEVELOPMENT						
	Preparing the bed by scarifying and deweeding existing surface, placing humus earth mixed with manure/cow dung in the ratio of 8:1 for a depth of 30 cm, rough dressing, fine dressing, levelling and flooding with water, planting of selection 1 species of grass with 5 cm X 5 cm spacing as indicated by site incharge and thereafter maintenance and watering for 45 days including all labours, tools, tackle, complete.	SQ.M.	120			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as earth, plant material, manure, pesticides, earthwork etc., with all bye works and sundry works.					
	2. The rate to include all replacements, maintenance, watering etc. for 1 year.					
	3. To be read in conjunction with relevent clause of PJS.					
CIV-33 EXTERNAL SEWERAGE & STORM WATER PIPING						
	Supply, laying and commissioning RCC pipes of 150 dia/300 mm dia including earth cutting, filling, disposal of surplus earth, bed concrete, RCC pipe, SW gully trap/ chamber, grease trap, all complete in all respects as per scope of work, detailed drawings , technical specification and directions of the Engineer-In-Charge.					
a)	150mm dia RCC pipe (NP-3 grade)	Rm	180			

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PART - I : CIVIL WORKS						
	b) 300mm dia RCC pipe (NP-3 grade)	Rm	180			
	b) 900mm dia RCC pipe (NP-3 grade)	Rm	50			
	Note:					
	1. Only net length of RCC pipe laid in RM will be measurable for payment & Manhole provided will not be considered for payment i.e. included in this item.]					
	2. To be read in conjunction with relevent clause of PJS.					
CIV-34	INSERTS					
	Steel work welded in built up sections/framed work and embeded in concrete, including cutting hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc.as required.	KG	360			
CIV-35	STONE SOLING					
	Providing and laying stone ballast 40 to 115 mm size in layers upto 200mm thickness (wherever not covered in respective SOR items) with spreading & blinding material like sand, stone grit and compaction with mechanical means, watering etc. under floors/foundations, plinth protection & as per drawings including cost of material complete in all respect as per scope of work, detailed construction drawings as per technical specifications and directions of the Engineer-in-charge.	CUM	400			
	Note:					
	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, all leads, transportation, loading/unloading, levies towards disposal of surplus/unserviceable earth, borrow earth including compaction and making required slopes and berms, working space etc. with all bye works and sundry works.					
	2. Only plan dimensions as per drawing and true levels & net volume after compaction are measurable for payment purpose.					

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PART - I : CIVIL WORKS						
CIV-36	Installation of Speed Breaker					
	supply and installation of high grade rubber and PVC made Speed Breakers at ingress and egress. Make, size and type shall be as per directions of Engineer-In-Charge	nos.	4			
CIV-37	Rain water harvesting system including bore well recharges etc Providing and construction of Rain Water Harvesting in brick masonry and base and top slab in RCC M25 complete in all respect as per scope of work, detailed construction drawings , technical specifications and directions of the Engineer-in-charge	nos.	1			
	TOTAL					

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PART - II : Mechanical & Piping Works						
SECTION-A : SS TUBE & FITTING - SUPPLY, LAYING & TESTING						
1.0 (a)	Laying, testing and commissioning of SS tubes along with fittings as per Technical Specification, Typical P & ID for type of CNG station and scope of work including handling, lifting, transportation from stores to CNG stations.					
1.1	¾"OD X 0.095" min Wall thk. SS Tube (Refer TS Section III - A)	RM	300			
1.2	½"OD X 0.083" min Wall thk. SS Tube (Refer TS Section III - A)	RM	27			
2	Supply, Laying, testing and commissioning of SS 304 Tubes along with isolation valves, reducers & fittings etc.as per Technical Specification, Typical schematic drg. for Ins. air line of CNG station and scope of work including handling, storage, lifting, transportation upto CNG stations. (Note:Total no.of ferrule fittings may be considered as one jointing ferrule at every 5.0 m)					
2.1	½"OD X 0.083" min Wall thk. SS Tube (Refer TS Section III - A)	RM	300			
SECTION-B : ERECTION OF MECH. EQUIPMENT						
1.0	Handling (including lifting and transportation from Client's store within city to CNG stations) and erecting in position, the following equipment either on the foundation at Ground level or on roof at 3.5 m above ground level. Contractor's scope shall include supply of all material and accessories including but not limited to any fixtures, clamps, gasket, nut bolts, etc. :					
1.2	Cascade 4500/3000/2200 L water capacity, Erection at + Ground level (Refer TS Section III - B)	Nos.	2			
1.3	Dispenser Erection at + Ground Level	Nos.	6			
Note:	The quantities given above against individual items are indicative and shall not be considered to be binding. The quantities may increase or decrease at site at the time of actual execution and as per the discretion of Owner/ Engineer-in-charge. The unit rate shall be operated to work out the final payment due to Contractor.					
SECTION-C : SUPPLY, ERECTION & COMMISSIONING OF MISCELLANEOUS ITEM						

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1.0	Supply, erection & commissioning of following miscellaneous items as per technical specification and at locations (within the stations) as directed by EIC					
1.1	Air compressor pump (Refer TS Section III - C) (Tyre Inflator)	No.	1			
1.2	Water cooler (Refer TS Section III - C)	No.	1			
1.3	Fire fighting Equipments (Refer TS Section III - C)					
1.3.1	DCP -9 Kg	Nos.	14			
1.3.2	DCP -75 Kg	Nos.	3			
1.3.3	CO2 – 4.5 Kg	Nos.	2			
1.3.4	Sand Bucket (4 Nos. on each strand)	Nos.	2			
	SECTION-D : SUPPLY AND INSTALLATION OF ABOVEGROUND STEEL PIPING AT CNG STATIONS.					
1.0	SUPPLY FABRICATION AND INSTALLATION OF ASSORTED PIPE, FITTINGS AND FLANGES					
	Complete work of supply of pipes, flanges and fittings including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with PMS (piping material specification), relevant specifications & drawings indicated in scope of work indicated in SCC and instructions of Engineer-in-charge and as per all provisions of the CONTRACT DOCUMENT.					
	- Handling including lifting, transportation from Contractor Stores to CONTRACTOR's workshop for fabrication and/ or to work site for field fabrication and erection for all piping items supplied by Contractor.					
1.1	Carbon Steel Pipe (A 106, Gr. B, Seamless, B-36.10)					
	<u>Size</u>		<u>Rating/ Schedule</u>			
	4" NB, BE		STD	Meter	100	
	i) 2" NB, BE		XS	Meter	20	
	ii) 1" NB, PE		XS	Meter	8	

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iii)	¾" NB, PE S160	Meter	8			
1.2	Flanges					
a)	Weld Neck (A105, 300#, B-16.5, 125AARH)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB, RF End thickness to match with pipe wall thickness	Nos.	8			
ii)	2" NB, RF End thickness to match with pipe wall thickness	Nos.	8			
b)	Blind Flanges (A105, 300#, B-16.5, 125AARH)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB, RF STD	Nos.	2			
ii)	2" NB, RF XS	Nos.	2			
1.3	Elbow (Seamless)					
a)	90° Elbow (A234 Gr. WPB, B-16.9, 1.5D)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB STD	Nos.	6			
ii)	2" NB XS	Nos.	4			
iii)	1" NB XS	Nos.	2			
b)	45° Elbow (A234 Gr. WPB, B-16.9, 1.5D)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB STD	Nos.	4			

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ii)	2" NB XS	Nos.	4			
1.4	Tees (Seamless)					
a)	Equal Tee (A234 Gr. WPB, B16.9)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB x 4" NB x 4" NB STD x STD	Nos.	2			
ii)	2" NB x 2" NB x 2" NB XS	Nos.	2			
b)	Unequal Tee (A234 Gr. WPB, B16.9)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB x 4" NB x 2" NB STD x XS	Nos.	2			
1.5	Sockolet (A105, B16.11, 3000# / 6000#)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" x 1" NB	Nos.	4			
ii)	4" x ¾" NB STD x S160	Nos.	4			
iii)	2" x ¾" NB XS x S160	Nos.	4			
1.6	Reducer (A234 Gr. WPB, B.16.9)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB x 2" NB STD x XS	Nos.	4			
	<u>Note:</u>					
i)	The quantities mentioned above are tentative.					

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	ii) For all the supply items mentioned above, procurement shall be made as per specification after due approval of Engineer-in-charge.					
2.0	Supply of valves					
	Complete work of supply of valves including all taxes, duties, transportation and inspection charges but not limited to, the following items in accordance with relevant Specifications & relevant Data Sheets indicated in scope of work indicated in SCC, drawings, specification and instructions of EIC and as per all provisions of the CONTRACT DOCUMENT.					
2.1	Flanged/ Welded Valves (Full Bore/ Reduced Bore)					
	Ball / Glove					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB RB 300#	Nos.	2			
ii)	2" NB FB 300#	Nos.	2			
2.2	Sockolet Welded Valve (Ball / Glove Valve)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	1" NB 800#	Nos.	2			
ii)	¾" NB 800#	Nos.	2			
iii)	½" NB 800#	Nos.	2			
3.1	Complete Carbon Steel aboveground Piping Work with painting including all fittings, flanges and supply of all required gaskets, studs bolts & nuts etc. as described under item 2.0 above					
	Carbon Steel Pipe (A 106, Gr. B, Seamless, B-36.10)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB, BE STD	Meter	100			

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ii)	2" NB, BE XS	Meter	20			
iii)	1" NB, PE XS	Meter	8			
iv)	¾" NB, PE S160	Meter	8			
<u>Note:</u> 1) Pipe Specification and thickness may vary depending upon availability of pipe. No extra payment shall be made for this. 2) All butt welded fittings end shall generally match with connecting pipe wall thickness. However, in case of misalignment, Contractor shall have to do end preparation without any extra cost. 3) All coupling, nipples stud, bolts, nuts and gaskets etc. as required shall be supplied by contractor but no separate payments shall be made as it is covered under erection rate.						
3.2	<u>RADIOGRAPHY</u>					
	Performance of radiographic inspection by gamma radiation as per scope of work and as per specifications in piping of all types and thickness including providing/hiring of all necessary equipments, supply of all consumables, and whatever else even though not expressly mentioned but required to perform the work as per specifications and instructions of Engineer-in-Charge (full circle re-radiography of the repaired joint and additional radiography necessitated due to poor performance of contractor's welder shall be carried out by the Contractor at his own cost and shall not be paid extra by Company). Radiographs shall be submitted to the Engineer-in-Charge for acceptance, whose decision shall be final and binding.					
	<u>Size</u>					
i)	4" NB	No.of	30			
		Joints				
ii)	2" NB	No.of	10			
		Joints				
	<u>Note:</u>					
i)	The quantities mentioned above are tentative.					
4.0	Aboveground erection of Valves					

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	Handling including lifting and transportation from COMPANY's warehouse to CONTRACTOR'S Stores and/or work site and installation of all types of valves, insulating joint, flow tee including assembly of valve accessories, (if any) by bolting, threading or welding, supply and insertion of gaskets, nuts & bolts, nipples, etc. at all elevations of pipe sleepers, supports or overhead on racks, equipments nozzle, skid & painting etc. supply of all consumables, manpower, equipment, etc. for completion of all works as per scope of work and as per drawings, specifications and instructions of Engineer-in-charge including servicing/ cleaning of valve wherever required.					
4.1	Flanged/ Welded Valves (Full Bore/ Reduced Bore)					
	Ball / Glove					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	4" NB 300# #	Nos.	1			
ii)	2" NB 300# #	Nos.	2			
4.2	Socket Welded Valve (Ball / Glove Valve)					
	<u>Size</u> <u>Rating/ Schedule</u>					
i)	1" NB 800#	Nos.	2			
ii)	¾" NB 800#	Nos.	2			
iii)	½" NB 800#	Nos.	2			
5	STRUCTURAL WORKS					
5.1	Pipe Supports & Other Structures	M.Ton.	1			
	Supply, fabrication and erection of all types of pipe supports like clamps, saddle, guide stops, cradles, turn buckles, anchors, T-posts; stockade/ trestle and pipe bridge for overhead piping; frames for canopy, approach ladders and platforms, crossover, cable tray supports, etc. including painting suitable for highly corrosive area as per specification labour and supervision & complete work as per drawings, specifications and instruction of Engineer-in-charge. (Bolts, nuts, washers, U-clamps etc. for supporting shall be supplied by the Contractor within the rates quoted. These items will not be measured and paid separately). The work is to be completed in all respect as per scope of work and specification.					
	<u>Notes:</u>					

Item No.	Description	Unit	Total QTY	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (in INR) (In Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (in INR) (In Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST
	i) The quantities indicated above are tentative estimated values and hence are approximate. Final payment will be made based on actual quantities to be certified by the Owner/Owner representative.					
	ii) The cost of MS bolts (permanent and service), washers, electrodes, putty, gases, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants etc., as required for the work shall be deemed to be included in the quoted rates.					
	iii) All handling and transport charges of raw materials and fabricated structures including double handling, as required, for completion of work in accordance with time schedule, are deemed to be included in the quoted rates.					
6.0	PRESSURE GAUGES					
	Supply, installation and calibration of pressure Gauges and their accessories inclusive of supply of necessary piping materials/tubings alongwith all necessary valves & fittings, fabrication and installation of impulse lines/manifolds as per D. S. No. MEC/23H7/05/E5/I/001/DS-PG.	No.	2			
	TOTAL FOR MECHANICAL WORKS					

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

SI No.	Item No.	Description	Unit	Quantity	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Total Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (in INR)
1	2	3	4	5	6	6	7
Part-III		STEEL STRUCTURAL WORKS					
		Canopy in Structural Steel					
1	ST-1	Supply, fabrication, erection and handing over of structural steel fabricated canopy [steel structures tentative weight @ 85 Kg/Sqm] with 0.6mm thick Zinalume/galvalume colour coated steel sheets for roof sheeting as per specification, including 0.6mm thk. cold rolled colour coated steel profile sheet of Trac (150F) Pre-Coated Steel false ceiling system, with powder coated finishes as per manufacturers instruction and specification, fascia, flashings, Rain Water Pipe, electrical cable pipe & Gutter, including surface preparation by mechanical cleaning including application of one coat of Zinc phosphate primer of DFT 35 microns at shop, second coat of Zinc phosphate primer of DFT 35 microns at site after erection and two coats of finishing paint of synthetic enamel of DFT 25 microns each per coat at site (Total DFT 120 microns). The work is to be completed in all respect as per technical specification of Canopy, scope of work, detailed construction drawings and directions of the Engineer-in-charge. (rectangular plan area shall be considered for measurement)	M ²	190			
	Notes:	1. The tentative weight of structural steel shall be 85 kg/m2 (only weight of Steel structures elements excluding sheeting and false ceiling) of canopy area. A variation of +/- 15% of structural steel weight shall be deemed included in the item. Any increase/decrease beyond this limit shall attract payment/deduction @ Rs. 80000/- per Tonne.					
		2. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as structural steel, purlins, nuts, bolts, washers, screws, seals, wire ropes, roof sheeting, flashing, fitting and fixtures, false ceiling system, gutter, rain water pipes, electrical cable pipe and bends, electrodes, edge colour coated sheets (for signage works), primer, paint and all consumables etc. with all bye works and sundry works complete in all respect.					
		3. Rate to exclude cost of electrical wiring for under lights and Signage works, supply & fixing of all electrical fixtures/materials, signage works & Civil Foundation.					

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2	ST-2	<p>Supply, fabrication & erection of Steel structure</p> <p>Supplying, Fabricating & Erecting in position steel structures fabricated from MS rolled section conforming to IS:2062 and/or from pipes conforming to IS:1161 for cascade supporting structures, loading/unloading platform, MS Gratings, Cat Ladder, handrails, hoardings for signages, LCV stand, etc. or any other structures required as per constructon drawings for completion of works, including surface preparation by mechanical cleaning including application of one coat of Zinc phosphate primer of DFT 35 microns at shop, second coat of Zinc phosphate primer of DFT 35 microns at site after erection and two coats of finishing paint of synthetic enamel of DFT 25 microns each per coat at site, including loading, transportation and unloading delivery at erection site of all fabricated structures, storage and handling at site, site assembly and finally erection of structures at appropriate location, alignment and welding of all structures true to line, level, plumb and dimension. The work shall be completed in all respect as per drawings, technical specification and direction of the Engineer-in-Charge.</p>	KG	5500			
3	ST-3	<p>Providing and Fixing Fencing Structure</p> <p>Supplying, fabricating & fixing of steel structural fencing fabricated from pipes conforming to IS:1161 and plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm bothways to structural steel frame by means of welding/bolting, including surface preparation by mechanical claeing including application of two coats of approved quality of synthetic enamel paint over a two coat of primer in approved shade including loading, transportation and unloading delivery at erection site, of all fabricated structures ,storage and handling at site, site assembly and finally erection of structures at appropriate location, alignment and welding of all structures true to line, level, plumb and dimension including making pokets & pouring with PCC (1:2:4) in of block 500x500x500 for fixing of posts etc complete as per drawing, technical specifications,scope of works and directions of the Engineer-In-Charge.</p>	RM	75			
		a) Fencing height 2.1m					

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4	ST-4	Providing and Fixing Fencing Gates					
		Supply, fabrication & fixing of fencing gates fabricated from pipes conforming to IS:1161, plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm bothways to structural steel frame by means of welding/bolting, locking arrangement, etc., including surface preparation by mechanical cleaning including application of two coats of approved quality of synthetic enamel paint over two coats of primer in approved shade including loading, transportation and unloading delivery at erection site of all fabricated structures, storage and handling at site, site assembly and finally erection of structures at appropriate location, alignment and welding of all structures true to line, level, plumb and dimension including making pockets & pouring with PCC (1:2:4) in block of size 500x500x500mm for fixing of posts etc. complete as per drawings, technical specifications, scope of works and directions of the Engineer-In-Charge.					
	a)	4m Wide x 2.1m High	Nos.	4			
	b)	2m Wide x 2.1m High	Nos.	1			
5	ST-5	Providing and fixing chequered plate covers					
		Providing and fixing chequered plate in panel over cable trench, man hole cover & over steel structure platform including cutting, welding of stiffeners, hoisting, fixing in position, and applying two or more coats of approved quality synthetic enamel over a priming coat of approved colour etc. complete as per scope, detailed drawings, technical specifications and directions of the Engineer-In-Charge.	KG	2100			
6	ST-6	Providing and fixing safety guard					
		Providing and fixing safety guard with 80 mm heavy duty G.I. Pipe (size 600 deep and 500 width inside) grouted with ready mix high strength grout mortar of approved manufacturer and painted with approved quality paint as per scope of work, detailed construction drawings, technical specifications and directions of Engineer-In-Charge.	Nos.	12			

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	TOTAL FOR STRUCTURAL WORKS						

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

Sl. No.	Facilities	Overall Dimension and location	Description	Unit	Quantity	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Total Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (in INR)
Part-IV	Arch. Part							
1	PYLON (Monolith Tower)	2 m X 7 m (from top of granite cladded pedestal ie, 1m above FFL), located midway between ingress and egress.	4mm thick ACM (Aluminium Composite Material) panel router cut cladding on M.S. framework (hollow steel sections as per design requirement) with company logo	Lot	1			
2	CANOPY FASCIA:	1000 mm wide (in corporate colours on canopy vertical faces.	4mm thick ACM (of approved make) cladding in a combination of corporate colours with the use of Retro Reflective Sheeting					
a			Retro Reflective Fascia	RM	56			
b			Non-lit Fascia	RM	40			
3	BUILDING FASCIA	700 mm wide on top of building faces in elevation.	4mm thick ACM (of approved make) cladding in a combination of corporate colours with the use of Retro Reflective Sheeting	RM	50			
4	SPREADER	1200 X 450 x 150 mm thick - rectangular or trapezoidal in shape and 100 mm away from column face.	4mm thick ACM (Aluminium Composite Material) cladding with the use of Retro Reflective Sheeting duly pasted on ACM in required size & shape on structural framework with back-lit panels in 10 mm thick Acrylic/ PC duly CNC Routed in require shape & Size as per direction of concerned engineer.	No.	10			

Sl. No.	Facilities	Overall Dimension and location	Description	Unit	Quantity	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Total Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (in INR)
5	MANDATORY SIGN	300X 750mm (on column); 300X 450mm (on toilets) & 300X 600mm (in compressor and LCV area) - rectangular or trapezoidal in shape.	4mm thick. ACM (Aluminum Composite Material) sheets cladded on structural framework. Matter/Logo in Retro Reflective Sheeting duly pasted on ACM in required size & shape, all complete with by works, as approved.					
a			300mm X 750mm	No.	10			
b			300mm X 450mm	No.	8			
c			600mm X 600mm	No.	10			
6	DIRECTION SIGN	800x400 mm rectangular or trapezoidal in shape, standing 325 mm above finished footing level.	4mm thick. ACM (Aluminum Composite Material) cladding on steel framework with the use of 3M (or approved equivalent make) Retro Reflective Sheeting duly pasted on ACM in require size & shap & back-lit panels in 10 mm thick Acrylic/ PC duly CNC Routed in require shape & Size as per direction of	No.	2			
7	CANOPY COLUMN CLADDING	250 mm X 500 mm & 200mm X 400mm	Cladding in white 4mm thick ACM (Aluminum Composite Material) on structural with suspension pin, fixed securely to existing canopy column by welding at site.					

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a			250 mm X 500 mm	Sqm	150			
b			200mm X 400mm	Sqm	10			
8	HOARDING	3000 mm wide	Printed Flex sheet (make LG or 3M) with approved Art work (suitable for front lit) to be Fitted to the steel sheet of existing Hoarding structure in aluminium frame	Sqm	36			
9	SPOT HALOGEN LIGHTS	At an interval of 2 m C/C on top of existing steel hoarding.	Supplying and fixing Spot halogen lights (150 watts of Philips make) at an interval of 2 m center to center on top of existing hoarding including supply with steel bracket and laying of cable	No.	6			
Total For Architectural Works								

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
 COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHLPARA, UDAIPUR (TRIPURA)
 Tender No.: 05/51/23V2/TNGCL/001-iv

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
Part-V-A :	ELECTRICAL WORKS (SUPPLY)					
1.0	Design, engineering, manufacture, shop testing, supply including packing and forwarding, transportation, delivery at storage of power distribution board (PDB) and Lighting Distribution Board (LDB) :					
1.1	415 V, 30 KA single front Floor mounted type indoor PDB to receive input power at CNG Station consisting of bus bar chamber, cable alley, complete with wiring, indication lamp, ammeter, voltmeter, MFM (Multi Function Meter) etc including all labour and materials with operating mechanism, all accessories, mandatory spares as per data sheet, auxiliaries etc complete in all respects as specified in technical specification, data sheet & SLD no. MEC/--/05/E9/E/1081A & as per standard Specification No. : MEC/TS/05/E9/076 .	No.	1			
	Main In-comer of 630 Amp (TPN ACB EDO)(with Micro processor based O/C,S/C & E/F)					
	Outgoing with 02 nos. 400 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE, LSIG & SHUNT TRIP)					
	Outgoing with 03 nos. 100 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
	Outgoing with 03 nos. 63 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
	Outgoing with 02 nos. 32 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
1.2	Floor mounted APFC panel of 80KVAR capacitor bank in steps of 4X2.5+4X5+3x10+1x20KVAR capacitor of 12 nos, consisting of bus bar chamber, cable alley, incoming(FSU,SFU with Fuse),all outgoing feeder(FSUs,SFU with Fuse) as specified in tender drg. no. MEC/-----/05/E9/E/1081B and as per specification no. MEC/TS/05/E9/076	No.	1			
1.3	Outdoor type dust & weather proof sheet steel (2 mm thick) enclosed MCCB of following rating for mounting on wall or pedestal. 630A, 415V, 3 Pole & Neutral AC-23 duty and suitable for termination of 3.5 x 185/240 sq.mm A2XFY cable on incomer terminals and outgoing terminals.	No.	1			
	LIGHTING DISTRIBUTION BOARDS					
2.0	Design, engineering, manufacture, shop testing, supply including packing and forwarding, transportation, delivery at storage of 415V/240V lighting/power panels, Surface/Recess mounting type in weather/flame proof (with hinged cover) sheet steel enclosure of approved make having 4 Pole MCCB(LSIG)/RCCB (MCB + ELCB) as incoming and SP/DP/TP MCB (9KA type) for out going circuit complete with wiring, indication lamp, ammeter etc including all labour and materials as per specification and the direction of Engineer-in-charge.					

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
2.1	Surface/Recess mounted Lighting Panel (I/E-LDB) for Building Lighting consisting of two incomer one is 63A,4P,RCCB and second is 40 Amp,DP,RCCB (300mA sensitivity) as incomer(Grid+Invertor supply) along with necessary interlock through contactor (4P ,63A Contactor) with two isolated Cu busbar and 4 Nos. 10A DP MCBs, 8 Nos.6A DP MCBs & 08 Nos. 12A DP MCBs as out goings complete with ammeter ,indication lamp etc.	Nos.	2			
2.2	Outdoor Lighting Panel (O-LDB) consisting of 100 Amp (300mA sensitivity) 4 Pole RCCB as incomer and 12 nos. 20A TPN MCBs,06 nos. 16A TPN MCBs as out goings complete with Contactor(4P ,63A Contactor with 24Hrs timer), timer, A/M switch, PB with timer and 5 Nos. 20 Amp TPN MCB, 2 Nos. 16A TPN MCB are without timer etc indication lamp.	Nos.	1			
2.3	Power Point Lighting Panel (PP-LDB) consisting of 100 Amp (300mA sensitivity) 4 Pole RCCB and 06 nos. 20A DP MCBs,06 nos. 16A DP MCBs as out goings complete with ammeter ,indication lamp etc.	Nos.	2			
3.0	Design, engineering,supply including packing and forwarding, transportation, delivery at storage, of the complete earthing and lightning protection system, earth electrodes/ pit, earth main ring, earthing of electrical equipments, instrument panels, field instruments, process equipments and pipes/ flanges including all associated civil work with all material (Like Bitumen coating) and labour as per specification and drawings approved by the company in with IS 3043.					
3.1	Earth Pits- GI PIPE Electrode with 6 mm thick chequered plate cover	Nos.	14			
3.2	Earth Pits- Copper plate Electrode with 6 mm thick chequered plate cover	Nos.	3			
3.3	GI Strip (50X6) mm	Mtrs	500			
3.4	GI Strip (25X3) mm	Mtrs	800			

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Sl. No	Description of Item					
3.5	GI lightning rod 25 mm dia. 1800 mm long including supply of all hardware bare copper rope labour etc. complete as per approved drawings, specifications and directions of Engineer-In-Charge.	Nos.	2			
3.6	Advance maintenance free earthing system with 3mtr earth electrode of low carbon steel with 250 micron copper coating with carbon based backfill compound as per IS 3043/IEEE-80.	Nos.	1			
3.7	Arrangement for Earthing of LCV with Flexible green Cu wire (10 sqmm of 30 Meter length) ,Clamp (including bolting arrangement) ,Flexible PVC and other item etc.	Sets	1			
4.0	Design, engineering,supply including packing and forwarding, transportation, delivery at storage, of the 1.1kV grade XLPE insulated, PVC sheathed, FRLS power and control cables (conforming to IS:7098 and specification) of following sizes in trenches/ excavated under ground trench /trays, pulling through pipes and its proper sealing, cutting of paved area, roads etc.					
4.1	3.5x 240 mm2 A2XFY	Mtrs.	300			
4.2	3.5 x 185 mm2A2XFY	Mtrs.	200			
4.3	3.5x 95 mm2 A2XFY	Mtrs.	50			
4.4	3.5x 50 mm2 A2XFY	Mtrs.	50			

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Sl. No	Description of Item					
4.5	3.5x 35 mm2 A2XFY	Mtrs.	10			
4.6	4x 25 mm2 A2XFY	Mtrs.	100			
4.7	4x10 mm2 2XWY	Mtrs.	200			
4.8	4x 6 mm2 2XWY	Mtrs.	100			
4.9	4x 2.5 mm2 2XWY	Mtrs.	1000			

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Sl. No	Description of Item					
5.0	Supply of Wiring for main/ submain with 4 x 6 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station.	Lumpsum	1			
6.0	Supply of Wiring for main/ submain with 4 x 4 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station..	Lumpsum	1			
7.0	Supply including packing and forwarding, transportation, delivery at storage of lighting fixtures complete with mounting bracket, flame proof/non flame proof, control gear box as per the type of fixture, lamps etc. including civil work with pipe inserts for cables and connecting work, with all material and labour as per specifications, drawings and instruction of Engineer-in-charge. Work to be completed in all respects.					
7.1	Street lighting, integral flame proof well glass fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire with flame proof control gear Model no. FLPW-1095 of Baliga make or equivalent)	Nos.	30			
7.2	Supply of Integral flame proof Flood Light for. Building/Structure fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire Baliga make or equivalent)	Nos	2			
7.3	Supply of Integral flame proof Flood Light fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire Baliga make or equivalent)	Nos.	2			
7.4	Supply of the underlights for the canopy as specified including lighting fixture flame proof enclosure for Bulk Head Fitting(BH/OA/124, 1 x LED, 150W)of Sudhir make or equivalent, junction boxes etc. as required.	Nos.	15			
7.5	Street lighting pole 6mtr high GI octagonal pole (Type BOP-6030 of Bajaj make or equivalent) complete with bracket, GI clamps for fixing flame proof control gear box as per standard drawing (MEC/SD/05/E9/77/04) & specification (MEC/TS/05/E9/077B).	Nos.	30			
8.0	Supply of all the items listed at (Sl. No. 10.1 to 10.4 below) all miscellaneous materials etc as required to complete the HT & LT installation as per the tender. (All electrical equipments shall be approved from State Electricity Board/MECON.)					
8.1	VOID	Set	0			
8.2	VOID	Mtrs	0			

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Sl. No	Description of Item					
8.3	Chain link fencing of (height 2.5 m) for the sub station area with ISA 50 x 50 x 6 mm angle and 4 mm thick welded wire mesh and 1 no. gate (3x3 mtr.) complete with all material, welding and labour etc(20 mtrs/set).	Set	1			
8.4	40 mm blue granite metal for spreading in the fenced area .	Cum	40			
9.0	Supply of point wiring as per details in construction drawing & specification includes PVC conduits in ceiling, complete wiring including flexible wire (FR PVC), switch boxes & switches (ANCHOR ROMA make or equivalent), Multi strand Flexible HR PVC insulated copper conductor wires/cables for following items- Light Point					
9.1	Surface/ recess mounted LED light fixrure with LED lamp (type LCTL-36 -CDL of CG make or equivalent).	Nos.	50			
9.2	Surface/ recess mounted LED light fixrure with LED lamp (type LCTL-18 -CDL of CG make or equivalent).	Nos.	50			
9.3	Industrial Flame proof fluorescent lamp/LED fitting with lamp (type EXTL 240 of CG make or equivalent).	Nos.	2			
9.4	Exhaust fan (Industrial type 300/450 mm) with louvers,950 rpm,55watt with flap.	Nos.	6			
9.5	Flame Proof (CMIFR approved) 12" Exhaust Fan.0.25HP motor,1440 rpm. (Preferred Make: Baliga, FCG, CGL, Prompt)	Nos.	2			
9.6	Socket outlet (5/15 Amp combination) of ANCHOR ROMA make or equivalent	Nos.	60			

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
9.7	20 Amp sheet steel enclosed industrial type socket with 20 Amp DP MCB for AC.	Nos.	20			
9.8	Ceiling fan with electronic regulator (Energy efficient, 50W, 1200 mm sweep)	Nos.	10			
9.9	Wall mounted fan with electronic regulator (Energy efficient, 50W,) etc complete in all respect for wall mounting	Nos.	10			
9.10	Wall mounted fixture above Mirror/Wash basin of 10/15W LED etc complete in all respect.	Nos.	8			
	UPS SYSTEM					
10.0	All interconnecting cables among UPS, Rectifier, battery stand, ACDB/DCDB etc (50 mtr shall be considered between battery bank and UPS panel, 30 mtr cable shall be considered between ACDB/DCDB and UPS panel).	Lot	1			
	11.0 Air Conditioners					
11.1	Supply of latest model (5 stars BEE certified) 2 T split inverter AC complete with remote, 5 KVA stablizer, 12 Hr timer, MS Stand for outdoor unit etc.	Nos.	8			
	12.0 Flame Proof Welding Socket					
12.1	Supply of Flame proof type 63 Amp. Welding socket	Nos.	1			

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
13.0	Supply of following sizes of GI With Class B (Medium Duty, For straight route length) / HDPE Pipe (for bend route) in required length ,supply of clamps, small iron structures, spacers plugs, sealent etc. and materials complete as per approved drawings and directions of Engineer-In-Charge.					
13.1	50 mm NB	Mtrs	1000			
13.2	100 mm NB	Mtrs	600			
14.0	Supply of following Hot Dip Galvanized Ladder/Perforated Type cable trays (as per IS 2629) including bends, tee, crosses, horizontal and vertical splices along with cable tray cover(Wherever required for Asthetic look) etc. as required including supply of all G.I hardwares, all labour and material as required as per standard drawings, specification and direction of Engineer-in-charge					
14.1	Perforated type, made from 50mm height and 2.5 mm thick sheet steel & galvanized (86 microns) of following sizes.					
a	150mm wide	Mtrs	80			
b	300mm wide	Mtrs	80			
15.0	Erection Material					
15.1	Supply of MS base frame support for switch gear and bracket for misc. electrical equipment,cable tray support out of roled MS section,pipes,plates etc including welding, bolting, reveting, supply of necessary anchor bolts and grouting etc supply of paints applying one coat of anti rust primer two finish coats of approved synthetic enamel paints including bracking walls, floors etc for structure as required including supply of all GI hardware materials including all labour and materials complete as required and the direction of Engineer-in-charge.					

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
a	For Mother Station	Lumpsum	1			
16.0	Supply of the following including the supply of necessary clamp, bolts, rawl plugs etc. breaking and making good of walls, if required , and including all labour and materials complete as per directions of Engineer-In-Charge, applicable standards and Indian Electricity rules.					
16.1	Shock hazard charts complete with frame and glass	Nos.	1			
16.2	First Aid Boxes	Nos.	1			
16.3	Carbon-di-oxide(CO2) type fire extinguisher 4.5 Kg capacity Complete with gunmetal valve conforming to IS : 3224 With ISI mark , Discharge horn with bend & wall fixing Bracket With Mfg. Test certificate	Nos.	1			
16.4	Caution boards (Danger, High Volatage) including supply of necessary clamps, bolts and other hardware.	Nos.	1			
16.5	Single Line Diagram complete in glass frame.	Nos.	1			
17.0	Supply of Insulating Mats 11KV grade (as per IS:15652 - 2006) of 1000mm width, required for maintenance of electrical equipment in substation as required including cutting to required shape in running length and including all labour and materials etc. complete and as per directions of Engineer-In-Charge as per applicable Indian or International standards and Indian Electricity Rules.	Mtrs	40			

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
18.0	Supply of electrical accessories including, cable tags, cable tie ,Flexible pvc conduit,cable marker, nickle plated lugs, double compressed brass cable glands,brass adaptor/reducers/nipples, fixing of metallic anchor fasteners for supporting of cable trays and misc. electrical switchgear including all labour and materials complete as required and as per directions of Engineer-In-Charge.					
a	For Mother Station	Lumpsum	1			
19.0	Telephone & LAN					
19.1	Supply of telephone sockets (Piano reed Type) in recess PVC conduit including PVC conduit,telephone socket,cable,accessories etc as required.	Nos.	15			
19.2	Supply of LAN sockets in recess PVC conduit including PVC conduit,telephone socket,cable,accessories etc as required.	Nos.	15			
19.3	Supply of 2 pairs,0.61mm, Telephone Cable/Wire, including accessories etc as required.	Mtrs	400			
19.4	Supply of UTP cable (CAT 6), Make : D Link/Amp/Lucent	Mtrs	400			
19.5	Supply of Main Distribution Frame - 12 pair	Nos.	1			
19.6	Supply of LAN switch with single incomer and min 10-port out going port complete in all respect.	Nos.	1			

		Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (In Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Sl. No	Description of Item					
20.0	Supply of 80KVA Automatic Voltage Regulator (AVR) (Input Voltage range 320V to 480V) along with suitable rating of I/O MCCB with metallic enclosure(IP-52),including two nos Change Over switch(COS) of rating 250A ,AC23 duty complete in all respect.	Set	1			
21.0	Supply of Cable Pit SFRC cover of Size					
21.1	500X500(of inside clearance)X 600(Depth)	Nos.	30			
21.2	750X750(of inside clearance)X800(Depth)	Nos.	15			
21.3	1000X1000(of inside clearance)X1000(Depth)	Nos.	4			
22.0	Supply of 50 KVA Prime Power Gas Genset including AMF Panel, Metering,PRV,Piping, hook from existing CNG pipe line of pressure range 16 KG to 25 KG flanges etc with Ethernet communication Latest CPCB normsas applicable during supply of equipment complete in all respect	Nos.	1			
TOTAL FOR ELEC. SUPPLY						

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

Sl. No	Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
Part-V-B:	ELECTRICAL WORKS (ERECTION)					
1.0	Erection, Testing and Commissioning of power distribution board (PDB) and Lighting Distribution Board (LDB) :					
1.1	415 V, 30 KA single front Floor mounted type indoor PDB to receive input power at CNG Station consisting of bus bar chamber, cable alley, complete with wiring, indication lamp, ammeter, voltmeter, MFM (Multi Function Meter) etc including all labour and materials with operating mechanism, all accessories, mandatory spares as per data sheet, auxiliaries etc complete in all respects as specified in technical specification, data sheet & SLD no. MEC/--/05/E9/E/1081A & as per standard Specification No. : MEC/TS/05/E9/076 .	No.	1			
	Main In-comer of 630 Amp (TPN ACB EDO)(with Micro processor based O/C,S/C & E/F)					
	Outgoing with 02 nos. 400 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE, LSIG & SHUNT TRIP)					
	Outgoing with 03 nos. 100 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
	Outgoing with 03 nos. 63 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
	Outgoing with 02 nos. 32 Amp TPN MCCB (with TM based O/C,S/C & E/F RELEASE)					
1.2	Floor mounted APFC panel of 80KVAR capacitor bank in steps of 4X2.5+4X5+3x10+1x20KVAR capacitor of 12 nos, consisting of bus bar chamber, cable alley, incoming(FSU,SFU with Fuse),all outgoing feeder(FSUs,SFU with Fuse) as specified in tender drg. no. MEC/----/05/E9/E/1081B and as per specification no. MEC/TS/05/E9/076	No.	1			
1.3	Outdoor type dust & weather proof sheet steel (2 mm thick) enclosed MCCB of following rating for mounting on wall or pedestal. 630A, 415V, 3 Pole & Neutral AC 23 duty and suitable for termination of 3.5 x 185/240 sq.mm A2XFY cable on incomer terminals and outgoing terminals.	No.	1			
	LIGHTING DISTRIBUTION BOARDS					
2.0	Erection, Testing and Commissioning of 415V/240V lighting/power panels, Surface/Recess mounting type in weather/flame proof (with hinged cover) sheet steel enclosure of approved make having 4 Pole MCCB(LSIG)/RCCB (MCB + ELCB) as incoming and SP/DP/TP MCB (9KA type) for out going circuit complete with wiring, indication lamp, ammeter etc including all labour and materials as per specification and the direction of Engineer-in-charge.					
2.1	Surface/Recess mounted Lighting Panel (I/E-LDB) for Building Lighting consisting of two incomer one is 63A,4P,RCCB and second is 40 Amp,DP,RCCB (300mA sensitivity) as incomer(Grid+Invertor supply) along with necessary interlock through contactor (4P ,63A Contactor) with two isolated Cu busbar and 4 Nos. 10A DP MCBs, 8 Nos.6A DP MCBs & 08 Nos. 12A DP MCBs as out goings complete with ammeter ,indication lamp etc.	Nos.	2			

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
2.2	Outdoor Lighting Panel (O-LDB) consisting of 100 Amp (300mA sensitivity) 4 Pole RCCB as in-comer and 12 nos. 20A TPN MCBs, 06 nos. 16A TPN MCBs as out-goings complete with Contactor (4P, 63A Contactor with 24Hrs timer), timer, A/M switch, PB with timer and 5 Nos. 20 Amp TPN MCB, 2 Nos. 16A TPN MCB are without timer etc indication lamp.	No.	1			
2.3	Power Point Lighting Panel (PP-LDB) consisting of 100 Amp (300mA sensitivity) 4 Pole RCCB and 06 nos. 20A DP MCBs, 06 nos. 16A DP MCBs as out-goings complete with ammeter, indication lamp etc.	No.	2			
3.0	Erection, Testing and Commissioning of the complete earthing and lightning protection system, earth electrodes/ pit, earth main ring, earthing of electrical equipments, instrument panels, field instruments, process equipments and pipes/ flanges including all associated civil work with all material (Like Bitumen coating) and labour as per specification and drawings approved by the company in with IS 3043.					
3.1	Earth Pits- GI PIPE Electrode with 6 mm thick chequered plate cover	Nos.	14			
3.2	Earth Pits- Copper plate Electrode with 6 mm thick chequered plate cover	Nos.	3			
3.3	GI Strip (50X6) mm	Mtrs	500			
3.4	GI Strip (25X3) mm	Mtrs	800			
3.5	GI lightning rod 25 mm dia. 1800 mm long including supply of all hardware bare copper rope labour etc. complete as per approved drawings, specifications and directions of Engineer-In-Charge.	Nos.	2			
3.6	Advance maintenance free earthing system with 3mtr earth electrode of low carbon steel with 250 micron copper coating with carbon based backfill compound as per IS 3043/IEEE-80.	Nos.	1			
3.7	Arrangement for Earthing of LCV with Flexible green Cu wire (10 sqmm of 30 Meter length), Clamp (including bolting arrangement), Flexible PVC and other item etc.	Sets	1			
4.0	Laying, termination, glanding, testing of the 1.1kV grade XLPE insulated, PVC sheathed, FRLS power and control cables (conforming to IS:7098 and specification) of following sizes in trenches/ excavated under ground trench /trays, pulling through pipes and its proper sealing, cutting of paved area, roads etc.					

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
4.1	3.5x 240 mm2 A2XFY	Mtrs.	300			
4.2	3.5x 185 mm2 A2XFY	Mtrs.	200			
4.3	3.5x 95 mm2 A2XFY	Mtrs.	50			
4.4	3.5x 50 mm2 A2XFY	Mtrs.	50			
4.5	3.5x 35 mm2 A2XFY	Mtrs.	10			
4.6	4x 25 mm2 A2XFY	Mtrs.	100			
4.7	4x10 mm2 2XWY	Mtrs.	200			
4.8	4x 6 mm2 2XWY	Mtrs.	100			
4.9	4x 2.5 mm2 2XWY	Mtrs.	1000			
5.0	Wiring for main/ submain with 4 x 6 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station..	Lumpsum	1			
6.0	Wiring for main/ submain with 4 x 4 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station..	Lumpsum	1			

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
7.0	Erection, Testing and Commissioning of lighting fixtures,Pole complete with mounting bracket, flame proof/non flame proof, control gear box as per the type of fixture, lamps etc. including civil work with pipe inserts for cables and					
7.1	Street lighting, integral flame proof well glass fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire with flame proof control gear Model no. FLPW-1095 of Baliga make or equivalent)	Nos.	30			
7.2	Integral flame proof Flood Light for Building/Structure (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire Baliga make or equivalent)	Nos	2			
7.3	Integral flame proof Flood Light fixture (CMIFR approved for Zone-1/2 gas group IIA & IIB) with 72 W LED luminaire Baliga make or equivalent)	Nos.	2			
7.4	Erection of the underlights for the canopy as specified including lighting fixture flame proof enclosure for Bulk Head Fitting(BH/OA/124, 1 x LED, 150W)of Sudhir make or equivalent, junction boxes etc. as required.	Nos.	15			
7.5	Street lighting pole 6mtr high GI octagonal pole (Type BOP-6030 of Bajaj make or equivalent) complete with bracket, GI clamps for fixing flame proof control gear box as per standard drawing (MEC/SD/05/E9/77/04) & specification (MEC/TS/05/E9/077B).	Nos.	30			
8.0	All the items listed at (Sl. No. 10.1 to 10.4 below) all miscellaneous materials etc as required to complete the HT & LT installation ,testing and commissionig as per the tender. (All electrical equipments shall be approved from State Electricity Board/MECON.)					
8.1	Chain link fencing of (height 2.5 m) for the sub station area with ISA 50 x 50 x 6 mm angle and 4 mm thick welded wire mesh and 1 no. gate (3x3 mtr.) complete with all material, welding and labour etc(20 mtrs/set).	Set	1			
8.2	40 mm blue granite metal for spreading in the fenced area .	Cum	40			
9.0	Erection, testing & Commissioning of point wiring as per details in construction drawing & specification includes PVC conduits in ceiling, complete wiring including flexible wire (FR PVC), switch boxes & switches (ANCHOR ROMA make or equivalent), Multi strand Flexible HR PVC insulated copper conductor wires/cables for following items-					
9.1	Light Point Surface/ recess mounted LED light fixrure with LED lamp (type LCTL-36 -CDL of CG make or equivalent).	Nos.	50			

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
9.2	Surface/ recess mounted LED light fixture with LED lamp (type LCTL-18 -CDL of CG make or equivalent).	Nos.	50			
9.3	Industrial Flame proof fluorescent lamp/LED fitting with lamp (type EXTL 240 of CG make or equivalent).	Nos.	2			
9.4	Exhaust fan (Industrial type 300/450 mm) with louvers,950 rpm,55watt with flap.	Nos.	6			
9.5	Flame Proof (CMIFR approved) 12" Exhaust Fan.0.25HP motor,1440 rpm. (Preferred Make: Baliga, FCG, CGL, Prompt)	Nos.	2			
9.6	Socket outlet (5/15 Amp combination) of ANCHOR ROMA make or equivalent	Nos.	60			
9.7	20 Amp sheet steel enclosed industrial type socket with 20 Amp DP MCB for AC.	Nos.	20			
9.8	Ceiling fan with electronic regulator (Energy efficient, 50W, 1200 mm sweep)	Nos.	10			
9.9	Wall mounted fan with electronic regulator (Energy efficient, 50W,) etc complete in all respect for wall mounting	Nos.	10			
9.10	Wall mounted fixture above Mirror/Wash basin of 10/15W LED etc complete in all respect.	Nos.	8			
10.0	UPS SYSTEM					
10.1	All interconnecting cables among UPS, Rectifier, battery stand, ACDB/DCDB etc (50 mtr shall be considered between battery bank and UPS panel, 30 mtr cable shall be considered between ACDB/DCDB and UPS panel).	Nos.	1			
11.0	Air Conditioners					

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
11.1	Erection, Testing and Commissioning of latest model (5 stars BEE certified) 2 T split inverter AC complete with remote, 5 KVA stabilizer, 12 Hr timer, MS Stand for outdoor unit etc.	Nos.	8			
12.0	Flame Proof Welding Socket					
12.1	Erection, Testing and Commissioning of Flame proof type 63 Amp. Welding socket	Nos.	1			
13.0	Erection of following sizes of GI With Class B (Medium Duty, For straight route length) / HDPE Pipe (for bend route) in required length ,supply of clamps, small iron structures, spacers plugs, sealent etc. and materials complete as per approved drawings and directions of Engineer-In-Charge.					
13.1	50 mm NB	Mtrs	1000			
13.2	100 mm NB	Mtrs	600			
14.0	Erection, Testing and Commissioning of following Hot Dip Galvanized Ladder/Perforated Type cable trays (as per IS 2629) including bends, tee, crosses, horizontal and vertical splices along with cable tray cover (Wherever required for Asthetic look) etc. as required including supply of all G.I hardwares, all labour and material as required as per standard drawings, specification and direction of Engineer-in-charge					
14.1	Perforated type, made from 50mm height and 2.5 mm thick sheet steel & galvanized (86 microns) of following sizes.					
a	150mm wide	Mtrs	80			
b	300mm wide	Mtrs	80			
15.0	Erection Material					

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
15.1	Erection, Fixing and Commissioning of MS base frame support for switch gear and bracket for misc. electrical equipment,cable tray support out of roled MS section,pipes,plates etc including welding, bolting, reveting, supply of necessary anchor bolts and grouting etc supply of paints applying one coat of anti rust primer two finish coats of approved synthetic enamel paints including bracking walls, floors etc for structure as required including supply of all GI hardware materials including all labour and materials complete as required and the direction of Engineer-in-charge.					
a	For Mother Station	Lumpsum	1			
16.0	Erection and Commissioning of the following including necessary clamp, bolts, rawl plugs etc. breaking and making good of walls, if required , and including all labour and materials complete as per directions of Engineer-In-Charge, applicable standards and Indian Electricity rules.					
16.1	Shock hazard charts complete with frame and glass	Nos.	1			
16.2	First Aid Boxes	Nos.	1			
16.3	Carbon-di-oxide(CO2) type fire extinguisher 4.5 Kg capacity Complete with gunmetal valve conforming to IS : 3224 With ISI mark , Discharge horn with bend & wall fixing Bracket With Mfg. Test certificate	Nos.	1			
16.4	Caution boards (Danger, High Volatage) including supply of necessary clamps, bolts and other hardware.	Nos.	1			
16.5	Single Line Diagram complete in glass frame.	Nos.	1			
17.0	Laying and pasting of Insulating Mats 11kV grade (as per IS:15652 - 2006) of 1000mm width, required for maintenance of electrical equipment in substation as required including cutting to required shape in running length and including all labour and materials etc. complete and as per directions of Engineer-In-Charge as per applicable Indian or International standards and Indian Electricity Rules.	Mtrs	40			

Sl. No	'Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
18.0	Erection, Commissioning and fixing of electrical accessories including, cable tags, cable tie ,Flexible pvc conduit,cable marker, nickle plated lugs, double compressed brass cable glands,brass adaptar/reducers/nipples, fixing of metallic anchor fasteners for supporting of cable trays and misc. electrical switchgear including all labour and materials complete as required and as per directions of Engineer-In-Charge.					
a	For Mother Station	Lumpsum	1			
19.0	Telephone & LAN					
	Erection, Testing and Commissioning of following items at site as per specification :					
19.1	Telephone sockets (Piano reed Type) in recess PVC conduit including PVC conduit,telephone socket,cable,accessories etc as required.	Nos.	15			
19.2	LAN sockets in recess PVC conduit including PVC conduit,telephone socket,cable,accessories etc as required.	Nos.	15			
19.3	Four pairs,0.61mm, Telephone Cable/Wire, including accessories etc as required.	Mtrs	400			
19.4	UTP cable (CAT 6), Make : D Link/Amp/Lucent	Mtrs	400			
19.5	Main Distribution Frame - 12 pair	Nos.	1			
19.6	LAN switch with single incomer and min 10-port out going complete in all respect.	Nos.	1			
20.0	Erection, Testing and Commissioning of 80KVA Automatic Voltage Regulator (AVR) (Input Voltage range 320V to 480V) along with suitable rating of I/O MCCB with metallic enclosure(IP-52),including two nos Change Over switch(COS) of rating 250A ,AC23 duty complete in all respect.	Set	1			
21.0	Construction of Cable Pit of all side brick wall (230mm th) with SFRC cover of Size					

Sl. No	Description of Item	Unit	Total QTY.	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Figures)	Unit Rate inclusive of all applicable taxes, duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR) (in Words)	Amount inclusive of all applicable taxes & duties & other levies [if any] payable by the Contractor under the Contract, or for any other cause except final GST (In INR)
21.1	500 mm X500 mm (of inside clearance) X 600 (Depth)	Nos.	30			
21.2	750 mm X 750 mm (of inside clearance) X 800 mm (Depth)	Nos.	15			
12.3	1000 mm X1000 mm (of inside clearance) X 1000 mm (Depth)	Nos.	4			
22.0	Installation ,testing & Commissioning of 50 KVA Prime Power Gas Genset including AMF Panel, Metering,PRV,Piping, hook from existing CNG pipe line of pressure range 16 KG to 25 KG flanges etc with Ethernet communication Latest CPCB normsas applicable during supply of equipment complete in all respect	Nos	1			
23	All works relating to statutory approvals of the installation from competent authority like Electrical Inspectorate, CEA, DGMS, SEB etc. including carrying out of all required modifications in design / Manufacturer / Installation to meet the requirement of Indian Electricity rules and other statutory regulations in force, carrying out necessary paper work and liasion with the authorities to obtain all necessary clearances for charging of installation as per relevant national standards for Mother CNG station. However the official fees towards the approvals shall be reimbursed by the client.	Lumpsum	1			
TOTAL FOR ELEC. ERECTION						

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

		Bidder's Name		
Sl. No.	Description		In INR	
			(In Figures)	(In Words)
1	Total amount of quoted price for Civil Works (Part-I) SOR			
2	Total amount of quoted price for Mechanical & Piping Works (Part-II)SOR			
3	Total amount of quoted price for Structural Works (Part-III) SOR			
4	Total amount of quoted price for Architectural Works (Part-IV) SOR			
5	Total amount of quoted price for Electrical (Part-V-A)- Supply SOR			
6	Total amount of quoted price for Electrical (Part-V-B)- Erection SOR			
7	Gross Total Amount (inclusive of all applicable taxes & duties) [1+2+3+4+5+6]			
8	Rebate (if any) offered on gross total amount (Sl.No. 7) above. (which will be applicable on each item of Schedule of Rate)		_____ % of total quoted amount	_____ Percent of total quoted amount
9	Amount of Rebate as per Sl.No. 8 above			
10	NET TOTAL AMOUNT {7-9} (after considering rebate indicated at Sl.No. 8)			
11	Applicable rate & amount of GST (CGST&SGST/ UTGST or IGST) & amount on the Total Amount mentioned at Sl. No. 10 above-Refer Note 1) below.	18%		
12	Total Amount (Sl. No. 10 + 11)			
13	Loading against Extended Stay Compensation			
14	Gross Total Amount (Sl. No. 12 + 13)			
15	Service Accounting Code (SAC)-Refer Note 2) below.		995414	

Notes: Note: 1) Rate of GST indicated against sl. no. 11 above is the rate in general applicable on similar nature of work. Bidder must ascertain applicability of tax and it's percentage while submitting the bid. Any errors of interpretation of applicability of taxes/ duties by Bidders shall be to their account.
2) Service Accounting Codes (SAC) indicated against sl. no. 15 above is the code in general applicable for similar nature of work. Bidder must ascertain correctness of the same while submitting the bid. Any errors of the same by Bidders shall be to their account.
3) In case of any item(s) provided by owner as free issue, the implication of GST on free issue items, if applicable, shall be borne by owner.

Place : _____
Date : _____

Signature of Authorised Signatory
Name : _____
Designation : _____
Seal : _____

Tender No.: _____
Offer No. & Date : _____

SCHEDULE OF RATES

PROFORMA FOR EXTENDED STAY COMPENSATION

SCHEDULE OF RATES Rev.1 (UNPRICED BID)
COMPOSITE WORKS FOR CGS CUM CNG MOTHER STATION AT KHILPARA, UDAIPUR (TRIPURA)
Tender No.: 05/51/23V2/TNGCL/001-iv

Bidder's Name:

1.00 Rate of extended stay compensation beyond the time schedule and grace period mentioned in bidding document for reasons solely attributable to Owner.

		In INR		
			In Figures	In Words
1a	Extended Stay compensation (per month) excluding GST (CGST&SGST/UTGST or IGST)			
1b	GST (CGST&SGST/UTGST or IGST) applicable on 1a above in % (*)	18.00%	0.00	
1c	Total Extended Stay Compensation including GST (CGST&SGST/UTGST or IGST) per month		0.00	

Notes:

- 1) **Currency must be Indian Rupees (INR) only in above format.**
- 2) Bidder shall submit this format in Un-priced part duly stamped and signed without indicating the price. The price shall be submitted in the price part only.
- 3) Extended stay compensation shall be loaded on the quoted prices as per ITB/ Special Conditions of Contract (SCC).

(*): Rate of GST indicated above is the rate in general applicable on similar nature of work. Bidder must ascertain applicability of tax and it's percentage while submitting the bid. Any errors of interpretation of applicability of taxes/ duties by Bidders shall be to their account. Vendor has to take due care while filling the rates, as required in Schedule of Rates (SOR). In case any error occurs due to auto-calculation mode, same shall be rectified and shall be binding.

Place _____
 Date _____
 Tender No.: _____
 Offer No. & Date : _____

Signature of Authorised Signatory
 Name : _____
 Designation : _____
 Seal : _____