



मेकॉन लिमिटेड (भारत सरकार का संस्थान) MECON LIMITED (A GOVT. OF INDIA ENTERPRISES)



13वां एवं 15वां तल, नार्थ टॉवर, स्कोप मीनार, लक्ष्मी नगर व्यवसायिक केन्द्र, दिल्ली-110092, (भारत)
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स्वीकृति का फैक्स / FAX OF ACCEPTANCE (FOA)

FOA NO. 05/51/Q7NT/GAIL/001-IV-07/FOA-953

DATE: 07.07.2023

TO : M/S SHRI RAM SAGAR CONSTRUCTION
PHONE : +91- 0731-4009516, 8770055711, 8889912244
EMAIL : shreeramsagarconstruction@gmail.com
ATTN : MR. SANJEEV KR. CHOUDHARY, PARTNER
FROM : SR. GM (CONTRACTS), MECON LIMITED, DELHI

PLEASE REFER TO YOUR OFFER NO. NIL DTD. NIL (NIC BID ID: 553882) AND ALL OTHER SUBSEQUENT CORRESPONDENCE AGAINST BIDDING DOCUMENT NO. 05/51/Q7NT/GAIL/001-IV-07 DATED 17.04.2023 (TENDER ID: 2023_GAIL_150860) & COMMERCIAL CORRIGENDUM #1 DATED 09.05.2023 FOR CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC) FOR CGD PROJECT AT SIX GAS FOR GAIL (INDIA) LIMITED (.)

WE HEREBY ISSUE THIS FAX OF ACCEPTANCE (FOA) FOR AWARD FOR COMPLETE SCOPE OF WORK OF TENDER AT AN ESTIMATED CONTRACT VALUE OF RS. 7,30,22,636/- (INDIAN RUPEES SEVEN CRORES THIRTY LAKHS TWENTY-TWO THOUSAND SIX HUNDRED THIRTY-SIX ONLY) EXCL. GST. GST SHALL BE PAYABLE EXTRA AS PER TENDER PROVISIONS. (PRESENT RATE OF GST@18%).

THE DETAILED BREAKUP OF ABOVE ORDER VALUE IS ENCLOSED AS ANNEX-1(.)

THE COMPLETION PERIOD SHALL BE AS PER TENDER DOCUMENT(.)

PLEASE SUBMIT CONTRACT PERFORMANCE BANK GUARANTEE@ 10% OF ANNUALISED CONTRACT/ORDER VALUE [EXCLUDING GST] AS PER CL. NO.38 OF ITB OR AS PER BDS (ANNEXURE-IV TO SECTION-III OF VOL 1 OF II) AND CONTRACT AGREEMENT AS PER CL. NO.37 OF ITB OF TENDER DOCUMENT (.)

YOU ARE REQUESTED TO CONTACT PROJECT COORDINATOR (MR. PRATEEK MAHESHWARI, MANAGER (CGD), MECON LIMITED, EMAIL ID: pmaheshwari@mecon.co.in) FOR FURTHER INSTRUCTIONS (.)

ALL OTHER TERMS AND CONDITIONS SHALL BE AS PER BIDDING DOCUMENT & CORRIGENDUM THERE OF AS STATED ABOVE AND AS AGREED TILL DATE (.)

A DETAILED ORDER SHALL FOLLOW (.)

FOR & ON BEHALF OF GAIL (INDIA) LIMITED

राकेश शर्मा / RAKESH SHARMA
वरि. महाप्रबंधक (अनुबंध) / SR. GM (CONTRACTS)
मेकॉन लिमिटेड, दिल्ली / MECON LIMITED, DELHI

CC: BY COURIER TO:

M/s Shri Ram Sagar Construction

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SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-IV-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

Annex-I to RFA

NO. GS/51/Q7NT/

GAIL/001-IV-07/FA-95

Date: 07/07/23

Sl. No.	Item Description	Quantity	Units	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 Rs.)	TOTAL AMOUNT Without Taxes (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)
1	PART - I : CIVIL WORKS				
2	SITE CLEARANCE				
3	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.	50	CUM	1,494.00	74,700
4	Note:				
5	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.				
6	2. Demolition of RCC/PCC/Brick Masonry/Road will be paid in NET CUM after deductions for air voids as demolished.				
7	CLEANING VEGETATION Cleaning bushes including uprooting of rank vegetation, green bush wood, trees and saplings of girth upto 30cms (measured at a height of 1m above ground), stacking the serviceable materials and disposal of the same including rubbish etc. upto any lead and all lift as per specification and direction of the Engineer-in-charge. (payment will be made for actual site clearance area only).	3500	SQM	29.05	101,675
8	TREE CUTTING Tree cutting (only of girth more than 30 cm above 1m above ground) along with removal of roots and stumps and handing over the same to Owner / Owner's Representative including paying royalties, disposal, taking approval from competent authorities etc. all complete, as per technical specifications and direction of Engineer-in-charge.	5	Nos.	2,905.00	14,525
9	Note:				
10	1. Rate includes cost of all labour, tools, tackles, hire charges, royalties, levies, loading/unloading, transportation, electric power, illumination and cost of handingover to owner/for his representative etc. complete in all respects as per scope of work and direction of Engineer-in-charge.				
11	EARTH WORK IN EXCAVATION AND BACKFILLING				
12	Earthwork in excavation for foundations in ordinary soils including soft rock / disintegrated rock in both dry and wet conditions including pumping and bailing out surface and subsoil water, shoring, strutting, slush removal including backfilling in all positions in layers of 300mm at all heights and depths as per drawings and specifications wherever required, in Foundation pits and other places with excavated suitable surplus earth including reclaiming from spoil heaps kept within the plot including dressing and levelling, watering and mechanical compaction etc., transporting surplus unserviceable soil upto any lead and spreading in layers and as per specifications and direction of Engineer in charge. The Measurement for payment shall be for the theoretical volume only and it shall be the volume of the block of the excavation having maximum bottom dimension of the levelling course/PCC as per drawing and to actual depth.				
13	For depth upto 2.0 m.	2200	CUM	332.00	730,400
14	For depth beyond 2.0 m	100	CUM	373.50	37,350
15	Note:				
16	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.				
17	EARTH WORK IN EXCAVATION/ SITE GRADING IN HARD ROCK				
18	Earth work in excavation in hard rock for all type and size of foundations in any plan dimension up to required depth including disposal of excavated material up to any lead in all conditions, and disposal of surplus and unserviceable material. Surface to be leveled and neatly dressed complete in all respect as per scope of work, detailed construction drawings and directions of the Engineer-in-charge. The Measurement for payment shall be for the theoretical volume only and it shall be the volume of the block of the excavation having maximum bottom dimension of the levelling course/PCC as per drawing and to actual depth.	500	CUM	1,079.00	539,500
19	Note:-				
20	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 as per requirement.				
21	EARTH WORK IN FILLING				
22	Supply and Controlled earth filling with good quality imported earth from approved source under floors and other places with special compaction to achieve dry density of 95% standard proctor density as per instruction of the Engineer at all heights/depths upto any lead transporting, depositing, compacting and dressing, trimming complete as desired in layers not exceeding 30cm including watering, consolidating by mechanical means as per specifications and instructions of the Engineer.	9500	CUM	477.25	4,533,875
23	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of sand, right of way, cess, and backfilling using sand in all conditions, etc.				
24	SAND FILLING				
25	Supplying and filling approved quality coarse sand/M sand (Zone II or Zone III) in foundation or under floor, trenches, pits and other places, at all locations in layers of 150 mm thickness including watering and ramming, all lead, lift and depth complete as per drawing and specification and direction of the Engineer.	50	CUM	1,494.00	74,700
26	Note:				
27	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, cost of sand, right of way, cess, and backfilling using sand in all conditions, etc.				

SCHEDULE OF RATES
CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

28	PLAIN CEMENT CONCRETE				
29	Supplying and laying plain cement concrete of grade 1:2:4 (M 15) with stone aggregate 20mm down grade (including shuttering if required) in foundations, floors, roof screed, aprons, pits, drains and other mass concrete works, steps, coping of wall, sill etc., at all depths and heights/levels as per drawings, specifications and directions of the Engineer-in-charge.	75	CUM	6,142.00	460,650
30	Note:				
31	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, OPC/PPC cement, shuttering in all conditions etc. with all bye works and sundry works.				
32	Supplying and laying plain cement concrete of grade 1:3:6 (M 10) with stone aggregate 40mm down grade (including shuttering if required) in all levelling courses under foundations, mass concrete works, road works, chambers, trenches, floors and any other locations at all depths complete in all respects as per drawings, specifications and directions of the Engineer-in-charge.	650	CUM	5,727.00	3,722,550
33	Note:				
34	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, OPC/PPC cement, shuttering in all conditions etc. with all bye works and sundry works.				
35	REINFORCED CEMENT CONCRETE IN SUBSTRUCTURE				
36	Providing and Laying in position Machine batched and machine mixed Design mix/ Ready mixed for Reinforced Cement Concrete work of grade M-25 using 20mm down size graded aggregate at all depths and heights in substructure using cement content as per approved design mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of RMC as applicable, including cost of centering, shuttering and admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of concrete (improve workability without impairing strength and durability) but excluding cost of reinforcement as per direction of Engineer-in-charge. Mechanical mixers with Hopper along with Weigh Batchers shall also be permitted for use at site with the approval of Engineer-In-charge to produce Design Mix Concrete of specified grade.	1250	CUM	7,719.00	9,648,750
37	Note:				
38	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as, minimum 43 grade OPC cement/PPC cement including sulphate resistant cement if required, coarse and fine aggregates, admixtures, other minor construction materials, testing of concrete, curing etc. with all bye works complete.				
39	2. The reinforcement shall be paid separately vide respective item.				
40	REINFORCED CEMENT CONCRETE IN SUPERSTRUCTURE				
41	Providing and Laying in position Machine batched and machine mixed Design mix/ Ready mixed for Reinforced Cement Concrete work of grade M-25 using 20mm down size graded aggregate at all depths and heights in superstructure using cement content as per approved design mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads, having continuous agitated mixer, manufactured as per mix design of specified grade for reinforced cement concrete work including pumping of RMC as applicable, including cost of centering, shuttering and admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of concrete (improve workability without impairing strength and durability) but excluding cost of reinforcement as per direction of Engineer-in-charge. Mechanical mixers with Hopper along with Weigh Batchers shall also be permitted for use at site with the approval of Engineer-In-charge to produce Design Mix Concrete of specified grade.	60	CUM	8,134.00	488,040
42	Note:				
43	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as, minimum 43 grade OPC cement/PPC cement including sulphate resistant cement if required, coarse and fine aggregates, admixtures, other minor construction materials, testing of concrete, curing etc. with all bye works complete.				
44	2. The reinforcement shall be paid separately vide respective item.				
45	REINFORCEMENT STEEL				
46	Supplying, Fabricating and Fixing in position TMT Grade Fe 500D reinforcement conforming to IS1786 at all levels and positions including the cost of transport, straightening, cutting, bending, cranking, 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, testing etc., all complete in all respects as per detailed construction drawings, technical specifications and direction of Engineer-in-charge. The chairs and spacer bars provided will not be measured for payment.	140	MT	71,380.00	9,993,200
47	Note:				
48	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.				
49	2. Chairs, Unauthorised Laps, Spacers, Binding wire, Wastage etc. shall be to contractor's account.				
50	BRICK WORK IN SUBSTRUCTURE				
51	Providing and laying BRICK WORK straight or curved on plan to any radius using best quality bricks with frog/indent, conforming to sub-class A as per IS:1077 having crushing strength of not less than 50 kg/cm ² in cement mortar 1 : 4 (1 Cement : 4 Coarse Sand) in all types of foundation and substructure work at all depths/heights including projections, pillars, parapets, ornamentals of any shape, cornices, all complete including cut work, curing, scaffolding, including filling of joints with Cement Mortar 1:4 and racking of joints, etc. as per specifications, drawings and directions of the Engineer.	175	CUM	5,561.00	973,175
52	Note:				
53	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC/PPC), bricks, finishes, weep holes, other minor construction materials, shuttering, staging, masonry work, etc. as per requirement with all bye-works and sundry works complete as per drawings.				



SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

54	BRICK WORK IN SUPERSTRUCTURE				
55	Providing and laying BRICK WORK straight or curved on plan to any radius using best quality bricks with frog/indent, conforming to sub-class A as per IS:1077 having crushing strength of not less than 50 kg/cm ² in cement mortar 1:4 (1 Cement : 4 Coarse Sand) in all types superstructure work at all depths/heights including projections, pillars, parapets, ornamentals of any shape, cornices, all complete including cut work, curing, scaffolding, including filling of joints with Cement Mortar 1:4 and racking of joints, etc. as per specifications, drawings and directions of the Engineer.	25	CUM	5,810.00	145,250
56	Note:				
57	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC/PPC), bricks, finishes, other minor construction materials, shuttering, staging, masonry work, as per requirement with all bye-works and sundry works complete as per drawings.				
58	BOUNDARY WALL (Superstructure)				
59	Providing, constructing and finishing of compound wall in RCC frame structure with 300mmx350mm column size at an interval of 3.0 m or as specified and height 2.1m with infill brick masonry 230 thk, 900mm 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. 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, Reinforcement steel, 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 vide respective item. 3. To be read with in conjunction with Particular Job Specification and tender drawing no. MEC/05/11/C/STD/CGD/002.	530	RM	11,620.00	6,158,600
60	BUILDING WORKS (Superstructure)				
61	Construction & handing over of RCC framed structure Utility/Office building/Control room building complete in all respect as per drawings (to be supplied by Owner) and as per scope, technical specification and directions of Engineer-in-charge. 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/PPC cement, brick crushing strength of not less than 50 kg/cm ² , RCC/R/F steel, inserts, chequered plate, bolts, conduits, finishes, other minor construction materials, shuttering, staging etc. shoring/strutting, bailing and pumping out water, masonry work, DPC, plastering, painting, false ceiling, flooring/ false flooring & electrical trench, water proof treatment on roof, anti termite treatment below foundation and floors, plumbing, sanitation, Door & Window, all finishing work etc. with all bye works and sundry works complete in all respects. 2. Foundation/ sub-structure to be paid separately vide respective item 3. To be read in conjunction with relevant clause of PJS.	220	SQM	24,900.00	5,478,000
62	PAYMENTSCHEDULE: The payment schedule for this item shall be as follows: 1.40% on casting of roof and completion of brickwork up to roof level. 2.15% on completion of all plumbing, sanitation, water proof treatment on roof, sewerage works inside and outside of the building. 3.35% on completion of all electrical, false ceiling, flooring & finishing works inside and outside of the building. 4.10% on handing over of the completed building to the owner.				
63	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/PPC cement, brick crushing strength of not less than 50 kg/cm ² , RCC/R/F steel, inserts, chequered plate, bolts, conduits, finishes, other minor construction materials, shuttering, staging etc. shoring/strutting, bailing and pumping out water, masonry work, DPC, plastering, painting, false ceiling, flooring/ false flooring, water proof treatment on roof, anti termite treatment below foundation and floors, plumbing, sanitation, Door & Window, all finishing work etc. with all bye works and sundry works complete in all respects. 2. Foundation/ sub-structure to be paid separately vide respective item 3. To be read in conjunction with relevant clause of PJS.				
64	PAVER BLOCK FLOORING				
65	Supplying and placing in position as per approved pattern of Cement Concrete Inter locking/grass jointed paver block 80 mm thick of approved shape, rough finish, M-40 strength of approved brand laid over the sand bed of minimum 50 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.	5300	SQM	1,037.50	5,498,750
66	Note :-				
67	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as paver blocks, sand, earth work in excavation in cutting earth in all conditions, shuttering with all bye works and sundry works.				
68	2.PCC below paver shall be paid separately vide respective item.				
69	SINGLE S.S.TUBE TRENCH IN FORECOURT				
70	Providing and construction of Single SS tube trench in brick masonry over the 100 mm thick PCC (1:3:6) base with precast SFRC covers 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 1:4 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.	250	RM	7,262.50	1,815,625
71	Note:				
72	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].				

SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

73	DOUBLE S.S.TUBE TRENCH IN FORECOURT				
74	Providing and construction of double SS tube trench in brick masonry over the 100 mm thick PCC (1:3:6) base with precast SFRC covers 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 1:4 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.	60	RM	9,545.00	572,700
75	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.				
76	PLASTERING				
77	Providing and applying 15 mm thick cement plaster 1 : 4 (1 cement : 4 medium coarse sand) smooth finish at all depths & heights on faces of walls, pillars, projection, bands, etc., including raking out joints if any left out, necessary dabbings, curing, scaffolding complete at all heights as per specification and drawings.	750	SQM	290.50	217,875
78	Note:-				
79	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement (OPC)/PPC cement, coarse sand and other minor construction materials as per requirement with all bye-works and sundry works complete as per drawings.				
80	DAMP PROOF COURSE				
81	Providing 40 mm thick Damp proof course over plinth with cement concrete grade 1:1.5:3 using aggregate of 10 mm and down graded and mixing approved water proof admixture with cement as per manufacturer's specification including necessary formwork/ shuttering, one coat of hot bitumen of grade VG-10 over the top surface of Damp proof course and all necessary byeworks complete as per specification, drawing and as directed by the Engineer.	50	SQM	539.50	26,975
82	PLINTH PROTECTION				
83	Providing & laying 100 mm thick plinth protection in PCC M15 with 20 mm nominal size aggregate including finishing the top smooth and in required slope, excavation, disposal of earthwork etc over a layer of 100 mm thick compacted sand over compacted earth.	75	SQM	1,162.00	87,150
84	PRE CAST COVERS				
85	Providing, hoisting and fixing up precast reinforced cement concrete of M-25 grade (20mm nominal size) in trenches, pits, tanks and the like including the cost of required centering, shuttering (with smooth surface) complete but excluding cost of reinforcement.	5	CUM	12,450.00	62,250
86	Note :-				
87	1. The reinforcement shall be paid separately vide respective item.				
88	INSERTS				
89	Supplying, Fabricating, Fixing at all levels and positions Steel embedments/ Inserts like Plates, Angle, Channels, Anchor boxes, MS pipe Sleeves including threading etc., including two coats of approved quality Synthetic enamel paint over a primer coat on the exposed Surfaces wherever necessary, complete as per Drawings, Specifications and directions of the Engineer-in-charge. (Jigs, Templates and Fixtures will not be paid separately).	1250	KG	103.75	129,688
90	BOLTS				
91	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(PCC blocks, jigs and fixtures will not be paid extra) and protecting the same till final erection.	1800	KG	128.65	231,570
92	CONTRACTION JOINTS				
93	Providing 5mm wide 12mm deep groove by groove cutting machine in construction joint in RCC flooring, providing and filling with bituminous sand sealant including approved primer all complete as per drawing, specification and instruction of Engineer.	350	RM	290.50	101,675
94	EXPANSION JOINTS				
95	Providing and laying 25 mm thick 150 mm deep expansion/separation joint along the periphery of pump foundations, pedestals, flooring with approved bituminous impregnated fibre board conforming to IS 1838 including sealing the top 20mm depth with bituminous mastic sealant at all heights and locations with all bye-works complete as per drawing, standard practice as directed by engineer	75	RM	415.00	31,125
96	PROVIDING AND LAYING CAP CELL BOARD				
97	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.				
98	25 mm thickness	15	SQM	1,079.00	16,185
99	12 mm thickness	15	SQM	830.00	12,450
100	GROUTING				
101	Providing & Grouting (including tamping) M-30 Grade Design Mix Concrete using 12 mm down graded coarse aggregate for Structures, Foundations, Baseplates, Anchor holes etc., with Cement Concrete including Shuttering wherever necessary at all levels and as per Drawings, Specifications and direction of the Engineer.	5	CUM	20,750.00	103,750
102	Providing and laying a ready mix non-shrink cementitious grout of compressive strength of 30 N/mm2 under equipment base plate, anchor holes, etc. at all levels complete in all respects as per specifications, drawing and direction of the Engineer.	150	BAG	830.00	124,500
103	G.I.PIPES				
104	Providing and fixing of following size of G.I. pipes (medium duty) as per IS 1239 complete with G.I. fittings and clamps including cutting by hack saw, bending by hydraulic machine, trenching and refilling etc. including all labour and material complete as per approved drawing and direction of EIC.				
105	100 mm nominal bore	75	RM	1,328.00	99,600
106	150 mm nominal bore	75	RM	1,992.00	149,400
107	CONCRETE PIPES (NP3 TYPE)				
108	Providing and laying non-pressure NP3 class (medium duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement : 2 fine sand) including trenching and filling complete as per direction of Engineer in charge.				
109	150 mm dia	30	RM	1,245.00	37,350

SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

110	300 mm dia	30	RM	1,826.00	54,780
111	600 mm dia	15	RM	2,490.00	37,350
112	RAIN WATER HARVESTING PIT				
113	Providing, constructing and finishing of rain water harvesting pit including boring up to ground water table, provision of filter media and construction of pit complete as per scope of work, detailed construction drawings and directions of the Engineer-in-charge.	3	Nos.	232,400.00	697,200
114	[Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials, such as minimum 43 grade OPC cement, bricks of class designation M-7.5 of IS: 1077 in CM 1:4 (1 cement : 4 sand), bitumen, other minor construction materials, shuttering, staging, providing and placing R/F steel, inserts etc. with all by works and sundry works complete.				
115	BOULDER SOLING				
116	Providing and laying 115 to 150 mm thickness dry trap rubble stone (granite/basalt) soling at all depths, including hand packing, filling the interstices with chips, spalls and binding with grit and selected murum, watering, compaction by hand ramming & rolling with 1 MT hand roller etc. complete as per attached job procedures, technical specification and as per direction of EIC.	50	CUM	2,075.00	103,750
117	STONE AGGREGATE				
118	Supplying, stacking and spreading of stone aggregate of size 53 mm to 22.4 mm at desired locations inside the plot over well compacted earth complete as per construction drawing and as directed by Engineer-in-charge.	20	CUM	2,075.00	41,500
119	KERB STONE FIXING				
120	Providing and fixing precast concrete Kerb stones (125 wide X 300 deep approx.) 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 (1 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.	250	RM	809.25	202,313
121	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.				
122	GULLY TRAP				
123	Providing and fixing square mouth S.W. 100x100 mm size P type gully trap class SP-1 complete with C.I. grating brick masonry chamber with water tight C.I. cover with frame of 300x300 mm size (inside) the weight of cover to be not less than 4.5 kg and frame to be not less than 2.70 kg as per standard design with common burnt clay bricks of class designation 5.0	4	NOS.	2,490.00	9,960
124	BRICK MASONRY MANHOLES				
125	Constructing brick masonry manhole in cement mortar 1:4 (1 cement : 4 coarse sand) with RCC top slab with 1:2.4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation, concrete 1:4.8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2.4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design including excavation, backfilling and disposal of surplus earth complete as per specifications, drawings and direction of Engineer-in-Charge.	4	EACH	12,035.00	48,140
126	Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg with common burnt clay bricks of class designation 5.0				
127	Extra for depth for manholes	4	RM	6,640.00	26,560
128	GLAZED STONEWARE PIPES				
129	Providing, laying and jointing glazed stone ware pipe class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 Cement : 1 Fine Sand) including embedding in PCC M-10, making haunches, necessary excavation, backfilling and testing of joints etc complete as per specification and upto 1.5m depth. (PCC shall be paid separately).				
130	100 mm dia	20	RM	747.00	14,940
131	150 mm dia	30	RM	996.00	29,880
132	SEPTIC TANK				
133	Providing and construction of septic tank in brick masonry with common burnt clay bricks of class designation 5.0 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.				
134	TYPE-I for 20 Users	3	NOS.	124,500.00	373,500
135	Note:				
136	Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade cement including CI vent, CI manhole cover, SW fittings, PVC coated rungs, brick, inserts, bolts covers, aggregates / sand fill conduits finishes in excavation and backfilling using strutting, bailing and pumping out water, masonry work, plastering, plumbing, sanitation, etc. with all bye works and sundry works. Scope of construction is from inlet chamber to outlet chamber. Over all depth of chamber may vary as per site condition.				
137	SOAK PIT				
138	Making soak pit 2.5 m outside diameter and effective depth of 2.5m with 45 x 45 cm dry brick honey comb shaft with bricks and S.W. drain pipe 100 mm diameter, 1.8 m long complete as per standard design with common burnt clay bricks of class designation 7.5.	3	NOS.	103,750.00	311,250
139	BORE WELL				
140	Supply, laying, drilling and commissioning of G.I. Bore well of 150 mm diameter and up to 50 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.	3	Nos.	290,500.00	871,500
141	Extra over and above for more than 50 M depth.	50	RM	2,075.00	103,750
142	PROVIDING AND FIXING GRANITE STONE OVER DISPENSOR ISLAND				
143	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.	75	SQM	3,527.50	264,563
144	Note: 1. Rate to include all labour, tools, tackles, hire charges, water charges etc complete.				

SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

145	Painting (APEX / Weather coat / Weather shield)				
146	Supplying and applying 3 coats of Apex paint of Asian paints/ Weather coat of Berger paints/ Weather shield 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.	150	SQM	273.90	41,085
147	[Rate to include priming coat of putty, scaffolding, tools & tackles consumables etc complete.]				
148	Painting (OBO)				
149	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.	150	SQM	153.55	23,033
150	[Rate to include priming coat putty, POP punning, scaffolding, tools & tackles etc complete.]				
151	White washing				
152	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.	150	SQM	74.70	11,205
153	[Rate to include whitening, scaffolding, tools & tackles etc complete.]				
154	EXTERNAL DEVELOPMENT				
155	Preparing the bed by scarifying and dewatering 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.	250	SQM	560.25	140,063
156	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 relevant clause of PJS.				
157	Speed Breaker				
158	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	30	NOS	9,130.00	273,900
159	Portable cabin				
160	Supply, Erection and commissioning of portable cabin of size (approx.) 9 m X 3 m X 3 m, all complete as per specification Size as per the drawing attached in tender document.	2	LUMPSUM	498,000.00	996,000
161	ROAD WORKS				
162	Providing, laying, spreading, and compacting graded stone aggregate Granular Sub Base over subgrade, aggregate gradation shall be as per Table No 400 - 1 of Grading 1 of MORTH specifications (See Note 1) including transportation of material to site, laying in uniform layers with well prepared surface and compacting with vibratory roller to achieve the desired density as per specifications complete in all respect. Same shall be laid in layers of 200 mm thickness each. Rate to include preparation of existing subgrade surface to the proper line and level and compacted as directed by Engineer in charge.	300	CUM	1,826.00	547,800
163	Note 1:				
164	IS Sieve Designation % Passing 75.0 mm 100 53.0 mm 80-100 26.5 mm 55-90 9.50 mm 35-65 4.75 mm 25-55 2.36 mm 20-40 0.425 mm 10-25 0.075 mm 3-10				
165	Providing, laying, spreading, and compacting graded stone aggregate to wet mix macadam specifications as per Table no 400 - 11 of MORTH specifications (See Note 1) including the premixing the material with water at OMC in mechanical mix plant, carriage of mixed material by tipper to site, laying in uniform layers with paver/grader/manual in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density as per specifications complete in all respect. Same shall be laid in a layer of 100mm thickness over GSB Layer.	150	CUM	1,909.00	286,350
166	Note 1:				
167	IS Sieve Designation % Passing 53.0 mm 100 45.0 mm 95-100 26.5 mm --- 22.40 mm 60-80 11.20 mm 40-60 4.75 mm 25-40 2.36 mm 15-30 0.06 mm 8-22 0.075 mm 0-8				

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SCHEDULE OF RATES
CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

168	REINFORCED CEMENT CONCRETE IN PAVING/GRADE SLAB WITH VACUUM DEWATERED CONCRETING USING TREMIX OR EQUIVALENT METHOD				
169	Providing and Laying in position machine batched and machine mixed Design mix / Ready mixed M-30 grade concrete for slab/paving work at all depths and heights using 20 mm down size graded aggregate in panels of 4.0m x 4.0 m or as per approved drawing by using vacuum dewatering method (tremix flooring or equivalent) using cement content as per approved design mix manufactured in fully automatic batching plant and transported to site of work in transit mixer for all leads having continuous agitated mixer and providing necessary formwork with MS Channel sections, curing, edge treatment, making necessary slope, vibrating with needle and surface vibrators and finishing with broom finish including cost of centering & shuttering, admixtures in recommended proportions as per IS: 9103 to accelerate/retard setting of concrete (improve workability without impairing strength and durability) but excluding cost of reinforcement all complete in all respects and as per direction of Engineer-in-Charge. Cost of providing and laying 12 mm wide 25 mm deep polysulphide sealant in contraction joint in RCC floor including groove cutting is included within this SOR Item. Mechanical mixers with Hopper along with Weigh Batchers shall also be permitted for use at site with the approval Of Engineer-in-Charge to produce Design Mix Concrete.	200	CUM	8,134.00	1,626,800
170	Note:				
171	1. Rate to include cost of all labour, tools, tackles, equipment, hire charges, supply of all materials such as minimum 43 grade OPC cement, coarse and fine aggregates, admixtures, other minor construction materials, testing of concrete, curing etc. with all bye works and sundry works complete.				
172	2. Reinforcement & Expansion Joints shall be paid separately vide respective item.				
173	EXPANSION JOINTS FOR ROADS				
174	Providing 25mm wide 200 deep expansion joint with 25 thick PUF filler board, top filled with 15 mm x 25 mm polysulphide sealant, 32mm dia medium grade PVC sleeve with end cap at one end with 20mm dia plain MS bar @ 500mm c/c etc all complete as per drawing, specification and instruction of Engineer.	30	RM	415.00	12,450
175	STRUCTURAL WORKS				
176	Canopy in Structure Steel				
177	Supply, fabrication, erection and handing over of structural steel fabricated canopy [steel structures tentative weight @ 85 Kg/Sqm] with 0.6mm thick Zincalume/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)	565	SQM	9,545.00	5,392,925
178	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% structural weight shall be deemed included in the item. Any increase/ decrease beyond this limit shall attract payment/rebate @ 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, wire ropes, roof sheeting, flashing, fitting and fixtures, false ceiling system, gutter, rain water pipes and bends, electrodes, edge colour coated sheets for sinage 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 Sinage works, supply & fixing of all electrical fixtures/materials, signage works & Civil Foundation.				
179	Supply, fabrication & erection of Steel structures				
180	Supplying, Fabricating & Erecting in position steel structures fabricated from MS rolled section/plate section conforming to IS:2062 and/or from pipes conforming to IS:1161 for hoardings for signages, LCV stand, Monolith Structures, Pump House, cascade supporting structures, loading/unloading platform, MS Gratings, Cat Ladder, stair case, handrails, etc. or any other structures required as per construction 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.	19000	KG	91.30	1,734,700
181	Providing and Fixing Fencing Structure				
182	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 both ways to structural steel frame by means of welding/bolting, including applying two coats of approved quality of synthetic enamel paint over a priming coat of in approved shade including supply of all raw materials, bolts, electrodes, transportation, including making pokets & pouring with PCC (1:2:4) in of block 500x500x500 for fixing of posts etc complete as per enclosed drawing, technical specifications, scope of works and directions of the Engineer-In-Charge.				
183	Fencing height 2.1m	75	RM	3,569.00	267,675
184	Providing and fixing Fencing Gates				
185	Supplying, fabricating & fixing fencing gates fabricated from pipes conforming to IS:1161 and plates conforming to IS:2062 & fixing of GI weldmesh made from 3mm GI wire @ 75 mm both ways to structural steel frame by means of welding/bolting, painting with enamel paint in approved shade including supply of all raw materials, bolts, electrodes, transportation etc complete as per enclosed sketch, technical specifications and directions of the Engineer-In-Charge.				
186	4m Wide x 2.1m High	4	Nos.	58,100.00	232,400
187	2m Wide x 2.1m High	2	Nos.	24,900.00	49,800

SCHEDULE OF RATES
CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

188	Providing and fixing chequered plate covers				
189	Providing and fixing chequered plate in approved panel or over steel structure including cutting, welding, hoisting, fixing in position, and applying two or more coats of approved quality synthetic enamel over a priming coat of approved steel primer etc complete as per scope detailed drawings , technical specifications and directions of the Engineer-In-Charge.	8000	KG	87.15	697,200
190	Providing and fixing safety guard				
191	Providing and fixing safety guard with 80 mm heavy duty G.I. Pipe (size 450 deep and 300 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. [Rate to include cost of all labour , tools , tackles etc. complete]	20	Nos.	4,980.00	99,600
192	Supply and erection of Zincalume high tensile colour coated sheet on roof and sides:				
193	Preparation of sheeting drawings, bill of materials, including Procurement of 0.5mm TCT zincalume/Galvalume high tensile colour coated steel sheets (fy=550MPa) conforming to IS:15965, having trapezoidal profile with a cover width of 930-1020 mm and 28-32 mm deep crest at pitch of 186-250mm/c with min two ribs at centre for stiffening, with zincalume coating 150gsm and 35µ super polyester colorbond XRW / SMP (Silicon Modified Polyester) quality paint system or equivalent, anti-capillary groove to avoid any seepage of water through lateral over lap, compatible flashing, Trims, ridge panel, curved panel, fittings and fixtures, accessories, sealing tape, transportation and delivery at site, storage and handling at site, cutting and bending of sheets to required shapes and sizes and erecting them on roof and sides using self-drilling, self-tapping fasteners which shall be hot dip galvanized with Xylon coated with EPDM Seals conforming to AS: 3566 class 3 with colour coated to match sheet panel at proper position. Roof and side sheet shall be laid in combination of colours as per approved colours scheme. All works shall be completed in all respect as per specification, scope and description of works and as per direction of the Engineer-In-Charge (only net laid area to be measured for payment)	190	SQM	913.00	173,470
194	Providing and fixing of chain link fencing				
195	Supply, fabrication and erection of structures such as angle iron post , Channel post,Strainer and strut,etc.with necessary holes for fixing the chain link fencing,site assembly and finally erection of structures at appropriate location including surface preparation with painting as per specification,including 2.4m high G.I. Chain link fabric fencing mesh size 50x50x3.15 mm dia, with 0.6 m high barbed wire (type-A) as per IS:278-1978 shall be made from two strands of galvanized steel wire of nominal dia 2.5 mm twisted together fixed on angle iron posts with GI staples, turn buckles,all necessary fitting etc, including strengthening with 4 mm dia wire Nuts bolts and washer complete in all respects.All work as per Specification and drawings and as direction of the Engineer-In-Charge. (excluding foundation, Refer Tender drawing)	65	RM	3,112.50	202,313
196	Providing and fixing of chain link Fencing Gates				
197	Supply, fabrication & fixing of fencing Mild steel gate 3.0m high with Chain link fencing mesh (as per detail in item no 2 above) upto 2.4m height and 0.6m barbed wire fencing including all fixtures like MS Pivot, locking arrangement, tower bolt etc., complete in all respects including surface preparation, painting as per specification. The work is to be completed in all respect as per drawings, technical specification and direction of the Engineer-In-Charge (excluding foundations)				
198	2m Wide Gate	1	Nos.	41,500.00	41,500
199	Supply, fabrication & erection of MS Gate for Boundary Wall				
200	Supply, fabrication and fixing in position steel entrance gate (as per the design shown in the tender drawing) supply of raw materials, transportation and delivery at site, unloading, storage and handling at site, site assembly and finally erection at appropriate locations. gates shall be fabricated out of channel and Sq Bar with all fixtures like MS Pivot, M.S sheet boxing ,locking arrangement, MS tower bolts, gate stopper, hold fast, MS wheel with ball bearing , MS tee bend to shape and embedded in the road surface for gate opening track , etc. including painting as per specification. The work is to be completed in all respect as per drawings and technical specification and direction of the Engineer-in-Charge				
201	6.0 m wide Gate	2	Nos.	124,500.00	249,000
202	4.0 m wide Gate	1	Nos.	99,600.00	99,600
203	1.2 m wide emergency Gate	1	Nos.	33,200.00	33,200
204	Notes: 1) The quantities indicated are estimated, hence are approximate. Final payment will be made based on actual quantities as per bill of materials. 2) The cost & weight of bolts (permanent and service), washers, electrodes, putty, gases, shims, packs, cost of straightening the raw materials, cutting of flats from plates and providing splices, paints, tools, plants, testing of materials, Inspection, etc. and all other consumables as required for completion the work shall be deemed to be included in the quoted rates. 3) All handling and transport charges of raw materials and fabricated structures including re-handling, as required, for completion of work in accordance with execution schedule, are deemed be included in the quoted rates. 4) All accessories like MS tower bolts, MS Pivot, MS Wheels, MS Tee section, locking arrangement etc. shall be measured by weight only. 5) Contractor shall ensure proper alignment and smooth operation of Gate. 6) The quoted rates shall be inclusive of all applicable taxes and duties, octroi, etc.				
205	ELECTRICAL WORKS (SUPPLY & ERECTION)				
206	LIGHTING DISTRIBUTION BOARDS				
207	Design, engineering, manufacture, shop testing, Supply, erection testing and commissioning including packing and forwarding, transportation, delivery at storage of 415V/240V lighting/power panels, Surface/Recess mounting type in weather/flamm 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.				
208	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+Inverter Supply, erection testing and commissioning) 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.	2	Nos.	70,550.00	141,100

SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

209	Power Point Lighting Panel (PP-LDB) consisting of 63 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.	2	Nos.	29,050.00	58,100
210	Supply, erection testing and commissioning including packing and forwarding, transportation, delivery at storage of 1500VA sine wave Inverter system with 1x150Ah Battery backup, completely maintenance free lead-acid battery for critical lighting in control room building & outdoor area (Make Inverter: Su-Kam, Genius, Microtek, Battery: Exide, Amaraaja).	2	Nos.	58,100.00	116,200
211	Design, engineering, Supply, erection testing and commissioning 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.				
212	Earth Pits- GI PIPE Electrode with 6 mm thick chequered plate cover	8	Nos.	16,185.00	129,480
213	GI Strip (50X6) mm	200	Mtrs	257.30	51,460
214	GI Strip (25X3) mm	200	Mtrs	149.40	29,880
215	GI lightning rod 25 mm dia. 1800 mm long including Supply, erection testing and commissioning of all hardware bare copper rope labour etc. complete as per approved drawings, specifications and directions of Engineer-In-Charge.	2	Nos.	6,540.00	13,280
216	Supply, erection testing and commissioning of Wiring for main/ submain with 4 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station.	2	Lumpsum	20,750.00	41,500
217	Supply, erection testing and commissioning of Wiring for main/ submain with 6 sq.mm FR PVC insulated copper conductor single core cable/ wire in PVC conduit in recess/ trench as required for Mother CNG station.	2	Lumpsum	16,600.00	33,200
218	Supply, erection testing and 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-				
219	Light Point				
220	Surface/ recess mounted LED light fixture with LED lamp (type LCTL-36 -CDL of CG make or equivalent).	40	Nos.	7,470.00	298,800
221	Surface/ recess mounted LED light fixture with LED lamp (type LCTL-18 -CDL of CG make or equivalent).	20	Nos.	5,810.00	116,200
222	Industrial Flame proof fluorescent lamp/LED fitting with lamp (type EXTL 240 of CG make or equivalent).	6	Nos.	9,130.00	54,780
223	Exhaust fan (Industrial type 300/450 mm) with louvers, 950 rpm, 55watt with flap.	10	Nos.	3,735.00	37,350
224	Flame Proof (CMIFR approved) 12" Exhaust Fan, 0.25HP motor, 1440 rpm. (Preferred Make: Baliga, FCG, CGL, Prompt)	4	Nos.	9,960.00	39,840
225	Socket outlet (5/15 Amp combination) of ANCHOR ROMA make or equivalent	30	Nos.	1,494.00	44,820
226	20 Amp sheet steel enclosed industrial type socket with 20 Amp DP MCB for AC.	10	Nos.	1,328.00	13,280
227	Ceiling fan with electronic regulator (Energy efficient, 50W, 1200 mm sweep)	10	Nos.	2,075.00	20,750
228	Wall mounted fan with electronic regulator (Energy efficient, 50W,) etc complete in all respect for wall mounting	12	Nos.	2,490.00	29,880
229	Wall mounted fixture above Mirror/Wash basin of 10/15W LED etc complete in all respect.	10	Nos.	1,245.00	12,450
230	Air Conditioners				
231	Supply, 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.	4	Nos.	66,400.00	265,600
232	Supply, laying and commissioning including Civil work of following sizes of HDPE Pipe (for bend route) in required length, Supply, erection testing and commissioning of clamps, small iron structures, spacers, plugs, sealant etc. and materials complete as per approved drawings and directions of Engineer-In-Charge.				
233	50 mm NB	4	Mtrs	381.80	1,527
234	100 mm NB	4	Mtrs	589.30	2,357
235	Supply, erection 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, erection testing and commissioning of all G.I hardware, all labour and material as required as per standard drawings, specification and direction of Engineer-in-charge				
236	Perforated type, made from 50mm height and 2.5 mm thick sheet steel & galvanized (86 microns) of following sizes.				
237	150mm wide	10	Mtrs	713.80	7,138
238	Supply, erection and fixing of the following including the Supply, erection testing and commissioning 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.				
239	Shock hazard charts complete with frame and glass	2	Nos.	1,411.00	2,822
240	First Aid Boxes	2	Nos.	3,652.00	7,304
241	Carbon-di-oxide(CO2) type fire extinguisher 4.5 Kg capacity Complete with gun/metal valve conforming to IS : 3224 With ISI mark , Discharge horn with bend & wall fixing Bracket With Mfg. Test certificate	2	Nos.	7,096.50	14,193
242	Caution boards (Danger, High Volatage) including Supply, erection testing and commissioning of necessary clamps, bolts and other hardware.	2	Nos.	1,411.00	2,822
243	Single Line Diagram complete in glass frame.	2	Nos.	4,108.50	8,217
244	Supply, 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.	4	Mtrs	1,452.50	5,810
245	Supply, erection testing and commissioning 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.	2	Lumpsum	41,500.00	83,000

SCHEDULE OF RATES
CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

246	Telephone & LAN				
247	Supply, erection testing and commissioning of telephone sockets (Piano reed Type) in recess PVC conduit including PVC conduit, telephone socket, cable, accessories etc as required.	12	Nos.	1,203.50	14,442
248	Supply, erection testing and commissioning of LAN sockets in recess PVC conduit including PVC conduit, telephone socket, cable, accessories etc as required.	12	Nos.	1,245.00	14,940
249	Supply, erection testing and commissioning of 2 pairs, 0.61mm, Telephone Cable/Wire, including accessories etc as required.	200	Mtrs	141.10	28,220
250	Supply, erection testing and commissioning of UTP cable (CAT 6), Make : D Link/Amp/Lucent	200	Mtrs	141.10	28,220
251	Supply, erection testing and commissioning of Main Distribution Frame - 12 pair	2	Nos.	3,942.50	7,885
252	Supply, erection testing and commissioning of LAN switch with single incomer and min 10-port out going port complete in all respect.	2	Nos.	4,772.50	9,545
253	ARCHITECTURAL WORKS				
254	PYLON (Monolith Tower)				
255	1.5 m X 5 m, located midway between ingress and egress.				
256	Supplying & Installing Monolith as per enclosed drawings. The item is lump sum and shall include all relevant costs associated with putting up such facility including supply, fabrication, erection, assembly, commissioning the MONOLITH (with client's name & logo) including electrical cabling and lighting etc. for the same. The specifications are as follows: • Made out of MS hollow pipe framework (hollow steel sections as per design requirement) with epoxy primer and paint. • Structure covered with PVDF coated 4 mm thick ACM (Alstrong/ Aludecor/ Alucobond) sheet cladding duly by cold forming. CNC machine routed and fold with retro reflective graphics and vinyl for backlit purpose. • ACM shall have a Total Thickness of 4mm : Top Coil 0.5mm (3003/3105 Grade as per IS - 737 1986 with minimum 25 microns PVdF Coating on top coil and Polyester / Epoxy coating on Back Coil (4 -7 microns PVDF ACM in colour and shape as per approved design. ACM to be cut in shapes as indicated. • COMPANY LOGO: 770mm in ht. & 50mm projected Acrylic / PETG (Eastman / Bayer / equ.) thermoformed shape & letters (as per art work) covered with vinyl of approved make with the provisions of illuminations during night with LED lights (Osram / Neenja / equ.) with necessary electrical fittings. • CNG LOGO: 440mm in ht. & 50 mm projected Acrylic / PETG thermoformed letters (as per art work) covered covered with vinyl of approved make with the provisions of illuminations during night.	2	Lot	199,200.00	398,400
257	• Cut Retro reflective vinyl (Avery / 3M / equ.) on ACM top to be paste as per artwork and fixed as per the details on both sides with provision of the LED numbers for rate indication. • Retro Reflective Sheeting shall be Type XI DG3 Microprismatic as per ASTM D 4956-09 in required colour & Size on both sides and cutouts for product names, logos, etc. duly CNC Plotted. • Special spot lights (2 nos.- 400 watts with metal halide lights of Philips make) to be incorporated in design to light up the entire tower with throw from base. • The backlit portion of the monolith to be lit with sufficient numbers T5 (28 W) tube lights (Philips make) with electronic choke, mounted on MS tube frames with plastic holders. • Multi-strand copper conductors with PVC insulation to be used. • Steel structural frame to be installed on RCC foundations. Top and exposed sides of the foundation to be clad in 18 mm thick black polished granite. • All work to be done in line, level and plumb, all complete with by works, as approved.				
258	CANOPY FASCIA:				
259	800 mm wide (in corporate colours on canopy vertical faces.				
260	Supplying & Installing Canopy Fascia with following specifications: • 900 mm height canopy fascia with PVDF coated 4 mm thick ACM sheet cladding duly CNC machine machine routed and fold as per drawing mounted on 150 mm depth box made out of 25 mm x 25 mm MS hollow pipe frame with powder coating and top GI sheet cover. • 4mm thick ACM (Alstrong/ Aludecor/ Alucobond) cladding in a combination of corporate colours with the use of Retro Reflective Sheeting (Avery / 3M / equ.) Type XI DG3 Microprismatic duly pasted on ACM in required size & shape (colour scheme and design to be approved) on mild steel framework with part backlit for company logo and name. • LED Lighting modules or encased LED light strips (Osram / Neenja / equ.) and power supply. • The letters shall be in 30 mm thick Acrylic/ PC duly CNC Routed in require shape & Size as per direction of concerned engineer. • Structural frame to be welded rigidly/ Bolted to the structural member of existing canopy structures. • COMPANY LOGO: 900mm in ht. Acrylic / PETG (Eastman / Bayer / equ.) thermoformed shape & letters (as per art work) covered with vinyl of approved make with the provisions of illuminations during night. Logo on all 4 sides.	180	RM	4,399.00	791,820
261	• Company Name: 400mm in ht. 040 white Acrylic / PETG thermoformed letters (as per art work) covered with vinyl of approved make with the provisions of illuminations during night. Logo on front right as per DWG. • Canopy fascia to be made in 12 m. (min.) long straight panels factory plan/processed at converters factory and assembled/installed at site. • All work to be done in line, level and plumb. • The top of the fascia shall have 4 mm thick ACM with hinged GI service door in backlit part. The back of the fascia to have 18 gauge GI sheets. • Multi-strand copper conductors with PVC insulation to be used. • The bottom and top of the fascia shall have a white ACM trim to cover the gap between the canopy and fascia. • The contractor should make suitable fixing arrangement, which should be duly vetted by a certified structural engineer as per the actual dimensions of the canopy structure.				

SCHEDULE OF RATES

CIVIL WORKS FOR CONSTRUCTION OF CNG STATIONS AT BHUBANESWAR AND CUTTACK (1.5 YEARS ARC)

Tender No.: 05/51/Q7NT/GAIL/001-iv-07, Tender ID: 2023_GAIL_150860

M/s Shri Ram Sagar Construction, Indore

262	CANOPY COLUMN CLADDING				
263	Supplying & Installing Column Cladding: • Using PVDF coated 4 mm ACM (Alstrong/ Aludecor/ Alucobond), mounted on box made out of 20 mm x 20 mm MS square pipe hollow section with powder coating. • Backlit design band in the centre in PET G (Eastman / Bayer / equ.) with yellow vinyl, LED lighting modules (Osram / Neenja / equ.) and power supply according to the design. • The structural framework shall be fixed securely to existing canopy column by welding at site. • ACM panel fixing to ensure consistent joint gaps and panel size. • All grooves shall be sealed with sealant material of approved colour, all complete with by works, as approved.	100	Sqm	3,569.00	356,900
264	SAFETY SIGN				
265	200 mm X 200 mm				
266	Supplying & Installing safety sign stickers of retro reflective vinyl (Avery / 3M / equ.) as per design pasted on column cladding.	60	No.	1,245.00	74,700
267	DISPENSER STICKER				
268	Supplying & Installing stickers of retro reflective vinyl (Avery / 3M / equ.) as per design pasted on dispensers.	40	No.	1,660.00	66,400
269	SPREADER				
270	450 mm X 450 mm				
271	Supplying & Installing Pump Spreader: • Made of 25 mm x 25 mm MS hollow pipe frame box with powder coating & cladding on both sides of PVDF coated 4 mm ACM (Alstrong/ Aludecor/ Alucobond) • CNC Router cut graphics in 040 white acrylic with LED modules (Osram / Neenja / equ.) for lighting • Spreader frame to be fixed securely to canopy columns with box & cap arrangement. • Sufficient no. of LED/ CFL lights and electronic chokes fixed with plastic holders. • Multi-strand copper conductors with PVC insulation to be used. • All work to be done in line, level and plumb, all complete with by works, as approved.	20	No.	6,225.00	124,500
272	CRASH GUARD				
273	Supplying & Installing 80mm dia MS pipe or as per design with two coat of zinc oxide primer and metallic paint as per the design.	20	No.	3,320.00	66,400
274	BUILDING FASCIA				
275	700 mm wide on top of building faces in elevation.				
276	Supplying & Installing Building Fascia with following specifications: • 4mm thick ACM (Alstrong/ Aludecor/ Alucobond) cladding in a combination of corporate colours with the use of Retro Reflective Sheeting (Avery / 3M / equ.) Type XI DG3 Microprismatic as per ASTM D 4956-09 duly pasted on ACM in required size & shape (colour scheme to be approved) on mild steel framework. • Structural frame to be fasteners/ Nut Bolted to the building walls with dash fasteners and leveling arrangement. • Building fascia to be made in maximum length of straight panels (with minimum no. of joints) straight panels factory plan/processed at converters factory and assembled/installed at site. • Corner piece (1 metre both sides) on both sides, also to be factory plan/processed/assembled and installed at site. • Only bottom trim and top flashing is to be Plan/processed and installed at site. • All work to be done in line, level and plumb, all complete with by works, as approved.	50	RM	3,320.00	166,000
277	MANDATORY SIGN				
278	300X 450mm (on toilets) & 300X 600mm (in compressor and LCV area) -rectangular or trapezoidal in shape.				
279	Supplying and Installing Mandatory Sign made of 4mm thick ACM (Alstrong/ Aludecor/ Alucobond) sheets cladded on structural framework. Matter/Logo in Retro Reflective Sheeting (Avery / 3M / equ.) Type XI DG3 Microprismatic as per ASTM D 4956-09 duly pasted on ACM in required size & shape, all complete with by works, as approved.				
280	300mm X 450mm	8	No.	1,494.00	11,952
281	300mm X 600mm	16	No.	1,909.00	30,544
282	DIRECTION SIGN				
283	400 mm X 1000 mm height				
284	Supplying & Installing Entry-Exit sign: • Made out of 25 mm x 25 mm MS hollow pipe frame box with powder coating and covered with 4 mm thick ACM sheet (Alstrong/ Aludecor/ Alucobond) and CNC router cut graphics in 040 white acrylic with LED modules (Osram / Neenja / equ.) for lighting and base foundation. • The sign frame to be fixed securely to CC foundation. • The CC foundation shall have 8mm thick polished black granite tiles cladding on top and all exposed side surfaces. • All work to be done in line, level and plumb, all complete with by works, as approved.	4	No.	7,470.00	29,880
285	HOARDING				
286	3000 mm wide				
287	Supplying and installing Printed Flex sheet (make LG / 3M / Avery) with approved Art work (suitable for front lit) to be Fitted to the steel sheet of existing Hoarding structure in aluminium frame using Klick Rail System & as per direction of concerned Engineer/ client.	72	Sqm	1,909.00	137,448
288	SPOT HALOGEN LIGHTS				
289	At an interval of 2 m C/C on top of existing steel hoarding.				
290	Supplying and installing 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 upto electrical panel of Electrical room (in Utility building) complete in all respect.	12	No.	5,395.00	64,740
	Total Excluding GST				73,022,636
	Total Including 18% GST				86,166,711