

**GOA STATE INFRASTRUCTURE DEVELOPMENT CORPORATION LTD.**

*Construction of Shri. Manohar Parrikar's Smriti Sthal at Miramar, Goa*

**Notice Inviting Tender No.: GSIDC/ENGG./NIT-93/2019-2020 DATED 23/11/2019**

**CORRIGENDUM – III**

Date: 6<sup>th</sup> December 2019

<b>SR. NO.</b>	<b>VOL NO.</b>	<b>CHAPTER / CLAUSE NO. / ITEM NO.</b>	<b>PRESENT CLAUSE / CONDITION</b>	<b>MODIFIED CLAUSE / CONDITION</b>
(1)	Volume No. 2	Section F : Flooring Works	Granite Flooring	Reference images for Granite as given in <b>Annexure A</b> to be followed for execution.
(2)	Volume No. 2	Section N : Electrical & CCTV Works	Lighting	<b>LIGHTING AUTOMATION TO INCLUDE:</b>  1. 12Ch 10Amp Relay Controller- 2 Nos 2. 12Ch 20Amp Relay Controller - 2 Nos 3. 8Ch 2Amp Trailing edge dimmer- 1 Nos 4. 8Ch Multi-controller with control card- 2 Nos 5. 8/7/5/4 Key Keypad - 4 Nos 6. Ipad Interface Controller with App - 1 Nos 7. Control DB - 2 Nos 8. Installation & testing Programming Commissioning - 1 Set 9. Cat 6 Control Cable - 100M

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(3)	Volume No. 2	Section P : HVAC	Floor Diffusers	Reference images for Floor Diffusers as given <b>Annexure A</b> to be followed for execution.
(4)	Volume No. 3	Item No. C2.2	Supplying, cutting in a controlled environment in a factory that has an established Quality Management System and a programmable CNC Machine for cutting in the desired profile, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work of steel grade FY 250 N/mm2 for tubular circular / tapering conical columns, beams, trusses, purlins, etc. (round, square or rectangular hollow tubes standard sections if available or built up sections from flat plates, Electric resistance or induction butt welded tubes), to detail GMI Welding constructions comprising R.S. joists, channels, angles, plates or any MS rolled section, including necessary permanent rivets, bolts & nuts, connection bolts of grade 8.8 High Strength Bolts, handling straightening, cutting with programmable CNC profile cutting machine, tapering, making conical, making holes, shop/ site assembly, finishing all member joints with buffing, erection, (including preparation of template) transport to site, storing, etc., and 100% ultrasound testing of welded joints, sandblasting and painting with shop/ site primer coat prior to erection at all heights including necessary double scaffolding/ staging, as required complete as directed. (Payment will be made on the basis of standard section weights for net weight erected in position including permanent bolts, nuts, and washers, etc.) (Sandblasting and shop/site primer shall be paid under separate items) (Providing Tekla Model and Shop drawings in ACad and .pdf format in soft and hard copies along with BoM and .dxf files which includes providing detailed assembly drawings, single part drawings for fabrication and erection drawings with material listing.) NOTE: ALL COST FOR MOCKUP, TEMPORARY BOLTS ARE DEEMED TO BE INCLUDED IN THE QUOTED RATES.	Supplying, cutting in a controlled environment in a factory that has an established Quality Management System and a programmable CNC Machine for cutting in the desired profile, fabricating, assembling, hoisting and fixing in position to alignments & levels as per approved drawings, structural steel work of steel grade FY 250 N/mm2 for tubular circular / tapering conical columns, beams, trusses, purlins, etc. (round, square or rectangular hollow tubes standard sections if available or built up sections from flat plates, Electric resistance or induction butt welded tubes), to detail GMI Welding constructions comprising R.S. joists, channels, angles, plates or any MS rolled section, including necessary permanent rivets, bolts & nuts, connection bolts of grade 8.8 High Strength Bolts, handling straightening, cutting with programmable CNC profile cutting machine, tapering, making conical, making holes, shop/ site assembly, finishing all member joints with buffing, erection, (including preparation of template) transport to site, storing, etc., and 100% ultrasound testing of welded joints, sandblasting and painting with shop/ site primer coat prior to erection at all heights including necessary double scaffolding/ staging, as required complete as directed. (Payment will be made on the basis of standard section weights for net weight erected in position including permanent bolts, nuts, and washers, etc.) (Sandblasting and shop/site primer shall be paid under separate items) (Includes providing Tekla Model and Shop drawings in AutoCAD and .pdf format in soft and hard copies along with BoM and .dxf files which includes providing detailed assembly drawings, single part drawings for fabrication and erection drawings with material listing.) Note: All cost for mockup, temporary bolts are deemed to be included in the quoted rates & shall not be paid for separately.
(5)	Volume No. 3	Item No. C2.3	Supplying, cutting in a controlled environment in a factory that has an established Quality Management System and a programmable CNC Machine for cutting in the desired profile, fabricating, assembling, hoisting and fixing in position to	Supplying, cutting in a controlled environment in a factory that has an established Quality Management System and a programmable CNC Machine for cutting in the desired profile, fabricating, assembling,

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			<p>alignments &amp; levels as per approved drawings, structural steel work of SS 316 Annealed for tubular circular / tapering conical columns, beams, trusses, purlins, etc. (round, square or rectangular hollow tubes standard sections if available or built up sections from flat plates, Electric resistance or induction butt welded tubes), to detail GMI Welding constructions comprising R.S. joists, channels, angles, plates or any MS rolled section, including necessary permanent rivets, bolts &amp; nuts, connection bolts of grade 8.8 High Strength Bolts, handling straightening, cutting with programeable CNC profile cutting machine, tapering, making conical, making holes, shop/ site assembly, finishing all member joints with buffing, erection, (including preparation of template) transport to site, storing, etc., and 100% ultrasound testing of welded joints, sandblasting and painting with shop/ site primer coat prior to erection at all heights including necessary double scaffolding/ staging, as required complete as directed. (Payment will be made on the basis of standard section weights for net weight erected in position including permanent bolts, nuts, and washers, etc.) (Sandblasting and shop/site primer shall be paid under separate items) (Providing Tekla Model and Shop drawings in ACad and .pdf format in soft and hard copies along with BoM and .dxf files which includes providing detailed assembly drawings, single part drawings for fabrication and erection drawings with material listing.) NOTE: ALL COST FOR MOCKUP, TEMPORARY BOLTS ARE DEEMED TO BE INCLUDED IN THE QUOTED RATES.</p>	<p>hoisting and fixing in position to alignments &amp; levels as per approved drawings, structural steel work of Stainless Steel grade 316 Annealed for columns, beams, trusses, purlins, etc., to detail GMI Welding constructions comprising curving angles/ box sections/ rounded edges, R.S. joists, channels, angles, plates or any rolled section, including necessary permanent rivets, bolts &amp; nuts, connection bolts of grade 8.8 High Strength Bolts, handling straightening, cutting with programmable CNC profile cutting machine, tapering, making conical, making holes, shop/ site assembly, finishing all member joints with buffing, erection, (including preparation of template) transport to site, storing, etc., and 100% ultrasound testing of welded joints prior to erection at all heights including necessary double scaffolding/ staging, as required complete as directed. (Payment will be made on the basis of standard section weights for net weight erected in position including permanent bolts, nuts, and washers, etc.) (Includes providing Tekla Model and Shop drawings in AutoCAD and .pdf format in soft and hard copies along with BoM and .dxf files which includes providing detailed assembly drawings, single part drawings for fabrication and erection drawings with material listing.) Note: All cost for mockup, temporary bolts are deemed to be included in the quoted rates &amp; shall not be paid for separately.</p>
(6)	Volume No. 3	Item No. F26	<p>Providing &amp; fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory leather finish 20 mm thk. Viscont White Granite Stone Slab of approved quality and colour, removable, placed to act as grating with S.S. 316 Mesh below, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (Minimum basic rate of 20 mm thick factory leather finish viscont white granite stone = Rs 3,740/sqm) (Size of stone as per detailed drawings)</p>	<p>Providing &amp; fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory leather finish 20 mm thk. Viscont White Granite Stone Slab of approved quality and colour, laid in curved/ straight pattern as per detail drawing, removable, placed to act as grating with S.S. 316 Mesh below of specified gauge including S.S. 316 Framework as per detailed drawings, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (S.S. Framework to be paid under separate item) (Minimum basic rate of 20 mm thick factory leather finish viscont white granite stone = Rs 3,740/sqm) (Size of stone as per detailed drawings)</p>

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(7)	Volume No. 3	Item No. F27	Providing & fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory mirror polished 18 mm thk. Adanga of Makrana Spotless White Marble Stone Slab of approved quality and colour, removable, placed to act as grating with S.S. 316 Mesh below, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (Minimum basic rate of 18 mm thick factory mirror polished adanga of makrana spotless white marble stone = Rs 2,500/sq m) (Size of stone as per detailed drawings)	Providing & fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory mirror polished 18 mm thk. Adanga of Makrana Spotless White Marble Stone Slab of approved quality and colour, laid in curved/ straight pattern as per detail drawing, removable, placed to act as grating with S.S. 316 Mesh below of specified gauge including S.S. 316 Framework as per detailed drawings, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (S.S. Framework to be paid under separate item) (Minimum basic rate of 18 mm thick factory mirror polished adanga of makrana spotless white marble stone = Rs 2,500/sq m) (Size of stone as per detailed drawings)
(8)	Volume No. 3	Item No. F28	Providing & fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory leather finish 18 mm thk. Jet Black Granite Stone Slab of approved quality and colour, removable, placed to act as grating with S.S. 316 Mesh below, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (Minimum basic rate of factory leather finish jet black granite = Rs1930/sqm) (Size of stone as per detailed drawings)	Providing & fixing Perforated Stone Jaali having 30 mm dia holes drilled in factory leather finish 18 mm thk. Jet Black Granite Stone Slab of approved quality and colour, laid in curved/ straight pattern as per detail drawing, removable, placed to act as grating with S.S. 316 Mesh below of specified gauge including S.S. 316 Framework as per detailed drawings, including edge polishing, rubbing, cleaning and polishing etc. all complete as specified and as directed by the Engineer. (S.S. Framework to be paid under separate item) (Minimum basic rate of factory leather finish jet black granite = Rs 1930/sqm) (Size of stone as per detailed drawings)

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(9)	Volume No. 3	Item No. G1	<p>Providing and fixing suspended Calcium silicate False Ceiling of 8 mm thick at all heights and areas as per drawing and as per following specifications. Framework: metal framed suspended ceiling comprises of GI perimeter channel having 0.55 mm thickness, two unequal flanges of 20 and 30 mm and web of 27 mm is fixed to surrounding walls/ partitions using nylon sleeves and screws at 450 mm centres, then intermediate channel 0.91 mm thick having two equal flanges of 15mm each and a web of 45mm is suspended from the so fit at 1220 mm centre with ceiling angle of width 25 mm x 10 mm x 0.55 mm thick fixed to soffit with G.I. cleat and expansion fastners. Ceiling section of 0.55 mm thickness having knurled web of 50.5 mm and flanges of 26 mm each with clips of 10.5 mm are then fixed to the intermediate channel with connecting clips across to the intermediate channel at 457 mm centres. Ceiling channels to be of max height of 1200 mm above which channel will be of M.S. section upto so fit of sloping ceiling. Board: 8mm thick square/tapered edge Calcium Silicate Board or Magnesium Silicate board or equivalent (asbestos-free, Non-combustible, water reistant having density 0.9 thermal conductivity 0.15 k/cum having cellulose as binders) with screw fixed across the ceiling sections with 25mm long self drilling and tapping screws having Philips head with under head cutter at 200 mm centres through the calcium silicate board fillets. All complete including double scaffolding at all heights as per tender detail drawings and as per approved shop drawings and to the satisfaction of Engineer.</p>	<p>Providing and fixing suspended Calcium Silicate False Ceiling of 8 mm thick at all heights and areas, including coves ranging from 150mm – 300mm, as per drawing and as per following specifications. Framework: metal framed suspended ceiling comprises of GI perimeter channel having 0.55 mm thickness, two unequal flanges of 20 and 30 mm and web of 27 mm is fixed to surrounding walls/ partitions using nylon sleeves and screws at 450 mm centers, then intermediate channel 0.91 mm thick having two equal flanges of 15mm each and a web of 45mm is suspended from the sofit at 1220 mm center with ceiling angle of width 25 mm x 10 mm x 0.55 mm thick fixed to soffit with G.I. cleat and expansion fasteners. Ceiling section of 0.55 mm thickness having knurled web of 50.5 mm and flanges of 26 mm each with clips of 10.5 mm are then fixed to the intermediate channel with connecting clips across to the intermediate channel at 457 mm centers. Ceiling channels to be of max height of 1200 mm above which channel will be of M.S. section upto sofit of sloping ceiling. Board: 8mm thick square/tapered edge Calcium Silicate Board or Magnesium Silicate board or equivalent (asbestos-free, Non-combustible, water resistant having density 0.9 thermal conductivity 0.15 k/cum having cellulose as binders) with screw fixed across the ceiling sections with 25mm long self-drilling and tapping screws having Philips head with under head cutter at 200 mm centers through the calcium silicate board fillets. All complete including double scaffolding at all heights as per tender detail drawings and as per approved shop drawings and to the satisfaction of Engineer.</p>
(10)	Volume No. 3	Item No. L19	<p>Providing and fixing M40 Grade Glass Reinforced Concrete (G.R.C) Louvers in Grey Cement with colour pigment finished smooth as per approved size/s and length/s, reinforced with necessary steel and to be fixed onto external supporting members (R.C.C./ structural steel members (provided under separate items)) including preparation of shop drawings as per manufacturer's specifications and architectural drawings, etc. complete to be approved by Engineer-in-charge. The Louvers shall be made from '43 grade' OPC Cement, Quartz, Fine Silica Sand, Alkali Resistant Glass Fibre, Super Plasticizers, U.V. resistant synthetic inorganic colour pigments and Polymers as per detailed specification. Special FRP Moulds</p>	<p>Providing and fixing M40 Grade Glass Reinforced Concrete (G.R.C) Louvers in Grey Cement with colour pigment finished smooth as per approved size/s and length/s, reinforced with necessary steel, including providing &amp; fixing intermediate spacers, sockets &amp; base plates/ angles, etc. (all in S.S. 316) and to be fixed onto external supporting members (R.C.C./ structural steel members (provided under separate items)) including preparation of shop drawings as per manufacturer's specifications and architectural drawings, etc. complete to be approved by</p>

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			shall be used for casting of louvers as directed by the Engineer-In-Charge. Item includes required double scaffolding at all heights, all required fittings & accessories, anchor bolts, sample, required free replacement warranty, reinforced steel & mock ups, all complete as per tender detail drawing and as per approved shop drawings/ details and to the satisfaction of Engineer. (N.B.: Item includes execution of upto 3 prototype designs).	Engineer-in-charge. The Louvers shall be made from '43 grade' OPC Cement, Quartz, Fine Silica Sand, Alkali Resistant Glass Fiber, Super Plasticizers, U.V. resistant synthetic inorganic colour pigments and Polymers as per detailed specification. Special FRP Moulds shall be used for casting of louvers as directed by the Engineer-In-Charge. Item includes required double scaffolding at all heights, all required fittings & accessories, anchor bolts, sample, required free replacement warranty, reinforced steel & mock ups, all complete as per tender detail drawing and as per approved shop drawings/ details and to the satisfaction of Engineer. (N.B.: Item includes execution of upto 3 prototype designs).
(11)	Volume No. 4	Tender Drawings		<p>Additional Tender Drawings enclosed as <b>Annexure B</b> to be followed for execution.</p> <ol style="list-style-type: none"> <li>1. GSS TD-700 R0 Flooring Layout</li> <li>2. GSS TD-701 R0 Flooring Layout &amp; Details - 2</li> <li>3. GSS TD-725a R0 Ceramic Frit Pattern</li> <li>4. GSS TD-900 R0 Compound Wall &amp; Gate Details</li> <li>5. GSS TD ST-103 Layout at Roof Level</li> </ol>