



CHENNAI METRO RAIL LIMITED

CHENNAI METRO RAIL PROJECT PHASE I

(NIT No. CMRL/CON/CCS-01/2015)

CONTRACT NO. CCS-01

**CONSULTANCY SERVICES FOR DESIGN WORKS OF THE
CIVIL, ARCHITECTURAL, LANDSCAPING & MEPWORKS,
DESIGN DEVELOPMENT, PROCUREMENT OF CONSTRUCTION
CONTRACTS, CONSTRUCTION SUPERVISION AND PROJECT
MANAGEMENT SERVICES FOR CENTRAL SQUARE, CHENNAI**

ADDENDUM – 1



Sl.No	Reference	Available Para/Clause	Amendment
A	All parts of Bid Document		
A1.			
B	Section 2: Instruction to Bidder		
B1.	ITB 1 (xvii), pg.5	“TOR” (Section 5 of the RFP).....	<i>Replace with the following: “TOR” (Section 3 of the RFP).....</i>
B2.	ITB 10.1.3, pg.10	Expert Schedule: Forms PER-3	Deleted.
B3.	ITB 10.1.4, pg. 10	Work Schedule: Forms PER-4	Deleted
B4.	ITB 12.6, pg. 12	<u>Envelope-1- a) Bid Security (in accordance with ITB 21)</u>	<i>Replace with the following: <u>Envelope-1- a) Bid Security (in accordance with ITB 14)</u></i>
C.	Section 3: Terms of Reference		
C1.	Cl. 3) Duties and Responsibilities of the consultant <i>point h., pg. no. 3-24</i> scope of services of Architect....	<i>Replace with the following: scope of services of Consultant....</i>
C2.	Cl.5) Project Team Of the Consultant ii) & iii), Pg. No. 3-26	ii) A list of personnel to be provided by the Consultant along with suggested staff man-months in PER 3 .	<i>Replace with the following: ii) A list of personnel to be provided by the consultant along with suggested staff deployment schedule submitted to the Employer and approved during pre-construction phase and construction supervision phase.</i>
C3.	Cl.5) Project Team Of the Consultant iv), Pg. No. 3-26	iv) The information furnished in PER 1 and 3	<i>Replace with the following: iv) The information furnished in PER 1</i>
C4.	Clause 1.3, pg. no. 3-2	<i>Keeping in view the design period of 6 months, the procurement of contract period of 4 months and the construction duration period of 24 months, it will be necessary to carefully plan the activities for efficient execution. The Consultant is expected to reflect this requirement in their Technical and financial proposals when detailing the quantum of planning, design and supervision work to be undertaken.</i>	<i>Please read “the design period of 8 months” instead of 6 months.</i>
C5.	Clause 1.4, pg.	<i>The Consultant is required to operate</i>	<i>Please read the second sentence as follows:</i>



Sl.No	Reference	Available Para/Clause	Amendment
	no. 3-2	<i>from an office in Chennai. During the pre-construction and Procurement phase, the office will have experts performing project preparation activities. During the Construction phase, the experts along with site engineers will carry out the day-to-day administration and supervision of the construction works including quality control, testing, etc.</i>	<i>During the construction phase the experts (Key Professional Staff) will render assistance as need based as and when required. The site engineers (sub-key Professional staff) will carry out the day-to-day project administration and supervision of the works, including, quality control, testing, safety, etc.</i>
C6.	Clause 2.1.1 (f), pg. no. 3-7	<u>Conduct technical feasibility and financial viability of the project.</u>	Preparation of detailed project report: Delete “.....and financial viability....”
C7	Enclosure-2, Pg. 3-30 to 3-33	<u>For All Key Professional Staff:</u> <u>III Age limit: Not exceeding 60 years on the date of submission of proposal</u>	For All Key Professional Staff: Please read “III Age limit: Not exceeding 65 years on the date of submission of proposal” not 60 years wherever 60 years is applicable. at the end please add: “Note- (1) In case the age is beyond 65 years then the marks will be 80% of the full marks of that position. (2) In case minimum qualification is degree, diploma can be considered provided the experience is twice that of degree holder”.
C8	Clause 1.7, Pg. 3-2	Lead Design Checker The consultant shall appoint a suitably qualified experienced person(s) to act as the Lead Design Checker by engaging staff from a reputed external consulting firm subjected to prior approval of client. The Lead Design Checker shall not produce any of the design or temporary works designs as a part of the consultant’s team.	<i>Replace with the following:</i> Lead Design Checker The consultant shall appoint a suitably qualified experienced person(s) to act as the Lead Design Checker by engaging staff from a reputed external consulting firm subjected to prior approval of client within 28 days after the signing of agreement . The Lead Design Checker shall not produce any of the design or temporary works designs as a part of the consultant’s team.
C9	Enclosure-1, Pg. 3-29	Staff Requirement for DDC & PMC Works	<i>Please See Revised Enclosure-1 having complete list for Staff Requirement for DDC & PMC Works in Enclosure to this addendum</i>
C10	Enclosure-2, Pg.	KEY PROFESSIONAL STAF	<i>Please See Revised Enclosure-2 having</i>



Sl.No	Reference	Available Para/Clause	Amendment
	3-30 to 3-36	SUB-KEY PROFESSIONAL STAFF	<i>complete list for Key Professional Staff & Sub-Key Professional staff</i>
C11	Clause 1.12, pg 3-5	<i>The Consultant shall also prepare and submit the following reports from time to time to the Client:</i> <ol style="list-style-type: none"> 1. Construction Supervision Manual – 4 copies 2. Operation and Maintenance Manual – 4 copies 3. Special Reports / Engineering Reports/Environmental Compliance Reports -4 copies 	<i>Add the following:</i> The construction supervision manual shall be updated and submitted to the client half-yearly and operation & maintenance manual shall be submitted prior to the handing over of the project and shall be updated annually during the defect liability period.
C12	Clause 2.2.3,pg 3-19	<u><i>(vii)CVs for the construction supervision staff shall be approved by Client. The date of start of supervision activity will be the date of commencement of work for the construction contracts. If there is no activity at site due to suspension of work for any reason, the supervision period will be extended accordingly without any cost to Client.</i></u>	<i>Add the following:</i> <i>In case of Suspension of work by the construction contractor beyond 45 days consecutively, price adjustment may be considered for the consultant if the delay is not due to the non-performance of the consultant.</i>
D	Section 4: Evaluation and Qualification Criterion		
E	Section 5: Technical Bidding Forms		
F	Section 6: Financial Bid		
G	Section 7: Conditions of Contract and Contract Forms		
G1.	Contract Forms Appendix-1,pg.1, item (iv)	Clause 8.2 and 8.3 of the GCC and Clause 1.2 of NIT	<i>Delete the following:</i> and Clause 1.2 of NIT
G2.	Contract Forms Appendix-1,pg.1, item (iv)	The Date of Completion of the services shall be as given in Schedule of submissions (Annexure B) of Scope of Work (Section -2) of the contract.	<i>Replace with the following:</i> The Date of Completion of the services shall be in accordance with Part-V of Section-6 (financial Bid) and as given in Terms of Reference (Section -3) of the contract.
G3.	Clause 54.1,pg-24, para-2	On termination, the consultant will be paid in accordance with the provisions of the contract for works executed till the date of issue of Notice of termination, provided that official documents are submitted as proof.	<i>Add the following in next line:</i> Upon termination consultant should handover all the design, drawings and documents to the employer.



Sl.No	Reference	Available Para/Clause	Amendment
G4.	Clause 9, pg-3, para 2	<u>The Contractor shall promptly give notice to the Employer of specific probable future events or circumstances which may adversely affect the work or increase the Contract Price or delay the execution of the Works.</u>	Replace with the following: The Consultant shall promptly give notice to the Employer of specific probable future events or circumstances which may adversely affect the work or increase the Contract Price or delay the execution of the Works by the construction contractor.
G5.	Clause 26.4, pg-10,	<u>The Schedule of Manning with details including number of personnel necessary to complete the works as per the Agreement shall be submitted by the consultant upon award of the work. The Employer reserves the right to penalize for non-deployment of man-power as agreed in contract agreement. The penalty for non-deployment of key persons will be penalized at 50,000/month/ key person and for sub-key staff at 25,000/month/ key person</u>	Replace with the following: The Schedule of Manning with details including number of personnel necessary to complete the works as per the Agreement shall be submitted by the consultant upon award of the work. The Employer reserves the right to penalize for non-deployment of man-power as agreed in manning schedule. The penalty for non-deployment of key persons will be penalized at 50,000/month/ key person and for sub-key staff at 25,000/month/ key person, until such time as the key person or his replacement is deployed.
G6.	Clause 26.5, pg-11,	<u>(iii) If a key personnel or sub-Key personnel are not available more than 15 days in a month, due to leave or sickness, an amount of Rs 50,000 will be deducted from consultant's payment.</u>	Replace with the following: (iii) If a key personnel or sub-Key personnel are not available more than 15 days in a month, due to leave or sickness, an amount of Rs 50,000 will be deducted from consultant's payment, if no replacement is provided for the period the key personnel or sub-key personnel are not available.
G7	Clause 41.2, pg-19	<u>Maximum amount withheld on account of disputed item in any invoice shall not exceed 150% of the value of the disputed item.</u>	Replace with the following: Maximum amount withheld on account of disputed item in any invoice shall not exceed 100% of the value of the disputed item.
G8	Clause 49, pg-22	<u>(iii) provided, however, that as a condition precedent to its right to an adjustment of a Project Schedule, Consultant shall have given written</u>	Replace with the following: (iii) provided, however, that as a condition precedent to its right to an adjustment of a Project Schedule, Consultant shall have



Sl.No	Reference	Available Para/Clause	Amendment
		<u>notice to the Employer of the circumstances of such delay within fourteen (30) Days after such circumstances were first observed by Design Consultant or its Sub consultants.</u>	given written notice to the Employer of the circumstances of such delay within Thirty (30) Days after such circumstances were first observed by Consultant or its Sub consultants.
G9	Clause 38.2,Pg-16	<p><u>38.2 Mobilization Advance:</u></p> <p><u>The consultant shall be eligible for Mobilization Advance up to 5% of the original contract value in two equal installments on receipt of an irrevocable bank guarantee from a PSU Bank in India of the tenderer's choice. The advance shall bear an interest of 12% over existing market rate. The first installment shall be paid within 30 days after the submission of the bank guarantee. The second installment shall be paid after satisfactory utilization of the first installment of the advance has been confirmed by the Employer. The bank guarantee shall be in an amount in Indian rupees and equal to 110% of the requested Advance amount in the format provided in the ITB. The bank guarantee shall become null and void when the full amount for the advance payment has been recovered by the Employer".</u></p>	<p>Replace with the following:</p> <p>“.....The advance shall bear an interest of 13%.....”</p>

Encl:

1. *Format for Familiarity Certificate as per clause 2.4, pg-5 of Section-2.*
2. *ENCLOSURE-1, pg. 3-29*
3. *KEY PROFESSIONAL STAFF, SECTION-3, ENCLOSURE-2,pg. 3-30 to 3-33*



The content for familiarity certificate should be read as under:

“We have inspected the site and we are familiar with the geological and topographical conditions, and local conditions and local bye-laws to perform the services.”

*[Sd-]
Seal*



1. ENCLOSURE 1 (Revised)

Staff Requirement for Consultancy Works as stated in Terms of Reference, Section 3 of this document

Sl. No.	Position /Designation
Key Professional Staff [DDC]	
1.	Team Leader
2.	Senior Architect
3.	Senior Structural Engineer (Design)
4.	Senior Quantity surveyor (cost control)
5.	Senior Contract manager
6.	MEP Engineer
Sub-key Professional Staff [PMC]	
1.	Architect
2.	Structural Engineer (Design)
3.	Program Manager
4.	Site Engineer (3 nos.)
5.	Quantity Surveyor
6.	Surveyor
7.	Quality Control Engineer
8.	Environmental & Landscaping Engineer
9.	MEP Engineer
10.	Safety Engineer
11.	CAD Expert (2 nos.)
12.	OHSE engineer.
13.	Landscaping expert
Support Staff [DDC & PMC]	
1.	Document controller-cum-Secretary
2.	Office Manager and Logistical support
3.	Computer Operator
4.	Office assistants

Notes:

1. The CVs of the Sub-key Professional Staff shall be submitted for the Client's approval prior to deployment.
2. The Key Specialists may be supported by a group of Engineers and other sub-key personnel so as to be able to complete all services in the ToR to a satisfactory level.

ENCLOSURE 2**QUALIFICATIONS AND EXPERIENCE OF PROFESSIONAL STAFF**

The qualification and experience requirements for the Professional Staff as given below are the Client's requirement in respect of the specific needs of the project. The applicant is advised to prepare the CVs of their proposed Professional Staff specifically highlighting their qualifications and experience in the relevant areas of expertise. The CVs should also highlight the proposed Professional Staff's higher education, training and publication of technical papers, etc. as well as their experience in providing training in the relevant areas. The CVs should also reflect the details of projects handled in terms of area, costs, duration, source of funding, type of contract document used, etc. Bidders shall fill PER-1 & PER-2 in Section-5: Technical bidding forms.

KEY PROFESSIONAL STAFF:**Note:**

"(1) In case the age is beyond 65 years then the marks will be 80% of the full marks of that position.

(2) In case minimum qualification is degree, diploma can be considered provided the experience is twice that of degree holder".

Team Leader

I	Educational Qualification	
	Essential	Post graduate in Civil Engineering / Architecture, Registered with Council of Architecture or , Graduate in Civil Engineering / Architecture, Registered with Council of Architecture
II	Essential Experience	
	a) Total professional experience	Min. 20 years for Post-Graduate and 25 years for Graduate.
	b) Experience in relevant works	Min. 15 years experience in construction supervision of works of similar nature pertaining to this contract of national & international experience
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

Senior Architect

I	Educational Qualification	
	Essential	Post-Graduate/ Graduate in Architecture & registered from Council of Architecture.
II	Essential Experience	
	a) Total professional experience	Min. 15 years for PG /20 Years for Graduate
	b) Experience in relevant works	Min. 10 years experience similar work including national & international experience
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

Senior Structural Engineer (Design)

I	Educational Qualification	
	Essential	M.Tech in Structural Engineering
II	Essential Experience	
	a) Total professional experience	Min. 15 years
	b) Experience in relevant works	Min. 10 years experience Structural Design and design coordination adopting latest technology including national & international experience
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

Senior Quantity Surveyor (cost control)

I	Educational Qualification	
	Essential	Graduate/Diploma in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 15 years for graduate and 30 years for Diploma
	b) Experience in relevant works	Min. 10 years experience
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

Senior Contract manager

I	Educational Qualification	
	Essential	Graduate in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 15 years
	b) Experience in relevant works	Min. 10 years experience in preparation of tender documents, cost estimates, bill of quantities, preparation of variation instructions and experience in addressing contract issues and claims etc.
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

MEP Engineer

I	Educational Qualification	
	Essential	Graduate/ Diploma in Electrical / Mechanical Engineering
II	Essential Experience	
	a) Total professional experience	Min. 15 years for Graduate and 30 years for Diploma
	b) Experience in relevant works	Min. 10 years experience in project preparation and design and supervision of installation of Electrical, HVAC, lifts and escalators etc.
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 65 years on the date of submission of Proposal

SUB-KEY PROFESSIONAL STAFF**Architect**

I	Educational Qualification	
	Essential	Graduate/ Diploma in Architecture registered with Council of Architecture.
II	Essential Experience	
	a) Total professional experience	Min. 8 years for graduate and 16 years for Diploma
	b) Experience in relevant works	Min. 5 years experience similar work including national & international experience
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Structural Engineer (Design)

I	Educational Qualification	
	Essential	M.Tech in Structural Engineering or Graduate in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 8 years for M.Tech and 10 years for Graduate
	b) Experience in relevant works	Min. 5 years experience Structural design adopting latest technology
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Landscaping Expert

I	Educational Qualification	
	Essential	Masters in landscaping design or equivalent
II	Essential Experience	
	a) Total professional experience	Min.8 years
	b) Experience in relevant works	Min. 5 years experience in landscaping works in public projects or have developed private projects like IT Parks, or areas bigger than 5 Acres.
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Program Manager

I	Educational Qualification	
	Essential	Graduate/ Diploam in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 8 years for graduate and 16 years for Diploma
	b) Experience in relevant works	Min. 5 years experience in work programme management including resource planning and should be proficient with planning software.
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Site Engineer (3 nos.)

I	Educational Qualification	
	Essential	Graduate/ Diploma in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 5 years for graduate and 10 years for Diploma
	b) Experience in relevant works	Min. 3 years experience in Construction supervision
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Quantity Surveyor

I	Educational Qualification	
	Essential	Graduate/ Diploma in Civil Engineering.
II	Essential Experience	
	a) Total professional experience	Min. 8 years for graduate and 16 years for Diploma
	b) Experience in relevant works	Min. 5 years experience for graduate and 10 years experience for diploma in preparation of rate analysis, cost estimates, bill of quantities, recording measurements for various items of building works etc.
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Surveyor

I	Educational Qualification	
	Essential	Graduate in Civil Engineering or Diploma in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 5 years (for Graduate) / 10 years (for Diploma holders)
	b) Experience in relevant works	Min. 3 years (for Graduate) / 6 years (for Diploma holders) experience in Survey work using total stations and GPS

III	Age Limit	Not exceeding 45 years on the date of submission of Proposal
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OHSE Engineer

I	Educational Qualification	
	Essential	Graduate in Engineering with safety certification
II	Essential Experience	
	a) Total professional experience	Min. 10 years
	b) Experience in relevant works	Min. 8 years experience in relevant field & possessing safety certification like NEBOSH etc.
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

Quality Control Engineer

I	Educational Qualification	
	Essential	Graduate/ Diploma in Civil Engineering
II	Essential Experience	
	a) Total professional experience	Min. 10 years for Graduate and 20 years for Diploma
	b) Experience in relevant works	Min. 10 years experience in Quality Control & Quality Assurance
	c) Experience in similar position	Min. 5 years
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

MEP Engineer

I	Educational Qualification	
	Essential	Graduate/ Diploma in Electrical / Mechanical Engineering
II	Essential Experience	
	a) Total professional experience	Min. 5 years for graduate and 10 years for Diploma
	b) Experience in relevant works	Min. 3 years experience in project preparation, design and installation of Electrical, HVAC, lifts and escalators, plumbing etc.
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal

CAD Expert (2 nos.)

I	Educational Qualification	
	Essential	Diploma in Auto CAD (Civil)
II	Essential Experience	
	a) Total professional experience	Min. 5 years
	b) Experience in relevant works	Min. 5 years experience in drafting civil drawings using Auto CAD (adopting latest technology)
III	Age Limit	Not exceeding 45 years on the date of submission of Proposal